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Bulletin Home

This Bulletin includes a description of undergraduate and graduate policies and programs at the University of Missouri-St. Louis for 2013-2014. All statements in this publication concerning regulations, fees, curricula, or other matters are subject to change without notice. They are not to be regarded as offers to contract.

The University of Missouri-St. Louis is accredited by the Higher Learning Commission of the North Central Association. This accreditation applies to all baccalaureate, masters, and doctoral levels. Our next scheduled comprehensive evaluation will be in 2018-2019.

The policies of the University of Missouri-St. Louis comply with the provisions under those laws that forbid discrimination on the basis of race, color, sex, national origin, religion, age, handicap, or veteran status in any program or activity of the University.

Bulletins for the past five years are posted in the archives section of this site. Older versions are available in campus advising offices and Academic Affairs. Program requirements are also available to students through Degree Audit Reports (DARS) (http://www.umsl.edu/services/dars), which are available online or from an academic adviser, who will assist in the interpretation of the audit.

The University of Missouri-St. Louis is one of four campuses that constitute the University of Missouri. Established in Columbia in 1839 on the ideals of Thomas Jefferson, the University of Missouri became a landgrant institution upon passage of the Morrill Act by Congress in 1862.

When the University of Missouri System was organized in 1963, the St. Louis campus was the only one that started as an entirely new university. The University of Missouri-St. Louis began as a consequence of the national movement to create public universities in metropolitan centers. UMSL was designed to educate the area's professionals through research, coursework, and hands-on experiences in the region's businesses, schools, hospitals, agencies, and the arts.

According to the campus's history, The Emerging University: The University of Missouri-St Louis, 1963-1983, faculty were hired from prestigious universities with a vision of creating a university where graduates would be able to confront urban issues through research, critical thinking, and creativity. More than traditional workforce development, these leaders' vision for UMSL was to educate students for lifelong learning, which would produce good citizens and effective leaders in the region's organizations. That legacy continues because those early leaders created a culture of faculty excellence that persists today.

Since the doors of the old Administration Building opened on a golf course almost 50 years ago, UMSL has grown to encompass 350 acres of beautifully landscaped rolling hills. The campus is now St. Louis's largest university in the number of students and is the third largest in the state.

Out of pride in the successes of our students, faculty, and staff and our culture of quality improvement, the campus posts on the Web recent highlights on the UMSL home page, detailed information on the About UMSL site, and student achievement data on the College Portrait.

Mission

Vision

The University Missouri-St. Louis will be known as a premier metropolitan public research university and as a university of choice for undergraduate, graduate and professional students.

Mission

The University of Missouri-St. Louis provides excellent learning experiences and leadership opportunities for a diverse student body. Outstanding faculty and staff, innovative research, and creative partnerships foster synergies that advance the welfare of our students and other stakeholders and benefit the global society.

Faculty Senate and University Assembly

The Faculty Senate has primary responsibility for making educational policy decisions to create a rigorous, innovative, student-oriented environment for learning, research, and community service. The Senate and University Assembly together and through their committees advise the chancellor and other senior administrators on matters related to students, faculty and staff.

The Faculty Senate has 40 faculty members, 30 representing departments and 10 elected at large. In addition, three administrators are non-voting members. The voting members of the University Assembly consist of the elected members of the Senate; the president; the chancellor; the vice chancellor for academic affairs; the dean of the graduate school; the vice provost for student affairs; the dean of continuing education; student representatives equal in number to one-third of the faculty members of the assembly; and three staff members, including the president of the Staff Association. Non-voting members consist of vice chancellors and vice provosts not already included, deans of all colleges, the dean of libraries, and the president of the Student Government Association. The Faculty Senate meets monthly between September and May and the Assembly meets in alternate months during the year. Information about the Faculty Senate and University Assembly are available on the Senate's Web site.

Staff Association

The University of Missouri-St. Louis Staff Association is a body formed to consider, to recommend, and to take such other actions as are properly related to the common concerns and best interest of those personnel at the University of Missouri-St. Louis. The Staff Association fosters a spirit of unity and cooperation among all employees of the University of Missouri-St. Louis, to consider methods and means by which employment conditions may be improved and the operating efficiency of the University of Missouri-St. Louis increased; to receive and consider matters concerning working conditions of membership; to make such recommendations that it deems appropriate, and to provide a means of communicating problems of mutual concern between the Staff Association and the University of Missouri-St. Louis administration. Representatives of the Staff Association serve as voting members of University Assembly committees.

Student Government Association

Student Government Association (SGA) of the University of Missouri St. Louis, housed in 366 Millennium Student Center, 314-516-¬5105, is the student governance body at UMSL. SGA is comprised of elected student representatives and a general assembly which includes representatives from all recognized student organizations. The purpose of the SGA

is to represent student concerns at every level of governance within the university. This is done by ensuring adequate and capable student representation within the University Assembly, the policy making and governance body of the university.

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The Student Government Association (http://www.umsl.edu/studentlife/sga) (SGA) of the University of Missouri St. Louis, housed in 366 Millennium Student Center, 314-516-¬5105, is the student governance body at UMSL. SGA is comprised of elected student representatives and a general assembly which includes representatives from all recognized student organizations. The purpose of the SGA is to represent student concerns at every level of governance within the university. This is done by ensuring adequate and capable student representation within the University Assembly, the policymaking and governance body of the university.

2013-2014 Academic Calendar Fall Semester - 2013

Date	Weekday	Event
August 19	Monday	Classes Begin 8:00 a.m.
September 2	Monday	Labor Day Holiday
September 3	Tuesday	Classes Resume, 8:00 a.m.
November 23	Saturday	Fall Break (Thanksgiving holiday) Begins 5:00 p.m.
December 2	Monday	Classes Resume, 8:00 a.m.
December 7	Saturday	Classes End, 5:00 p.m.
December 9	Monday	Final Examinations Begin
December 14	Saturday	Fall Semester Closes, end of day
December 14	Saturday	Fall Commencement

Winter Intersession - 2014

Date	Weekday	Event
January 6	Monday	Classes Begin, 8:00 a.m.
January 18	Saturday	Classes End, 5:00 p.m.

Spring Semester - 2014

Date	Weekday	Event
January 20	Monday	Martin Luther King Holiday
January 21	Tuesday	Classes Begin, 8:00 a.m.
March 22	Saturday	Spring Recess Begins, 5:00 p.m.
March 31	Monday	Classes Resume, 8:00 a.m.
May 10	Saturday	Classes End, 5:00 p.m.
May 12	Monday	Final Examinations Begin
May 17	Saturday	Spring Semester Closes, end of day
May17	Saturday	Spring Commencement
May 18	Sunday	Spring Commencement

Summer Sessions - 2014 Summer Session I (4 Weeks)

Date	Weekday	Event
May 19	Monday	Classes Begin, 8:00 a.m.
May 26	Monday	Memorial Day Holiday
May 27	Tuesday	Classes Resume, 8:00 a.m.
June 14	Saturday	Session Closes, End of Day

Summer Session 2 (4 Weeks)

Date	Weekday	Event
June 16	Monday	8:00 a.m.
July 4	Friday	Independence Day Holiday
July 7	Monday	Classes Resume
July 12	Saturday	Session Closes, End of Day

Summer Session 3 (4 Weeks)

Date	Weekday	Event
July 14	Monday	Classes Begin, 8:00 a.m.
August 9	Saturday	Session Closes, end of day

Final examinations are held during the last class meeting of Summer Sessions 1, 2, and 3.

Summer Session 4 (8 Weeks)

Date	Weekday	Event
May 19	Monday	Classes Begin, 8:00 a.m.
May 26	Monday	Memorial Day Holiday
May 27	Tuesday	Classes Resume, 8:00 a.m.
July 4	Friday	Independence Day Holiday
July 7	Monday	Classes Resume, 8:00 a.m.
July 9	Wednesday	Final Examinations Begin
July 12	Saturday	Session Closes, end of day

Summer Session 5 (8 Weeks)

Date	Weekday	Event
June 16	Monday	Classes Begin, 8:00 a.m.
July 4	Friday	Independence Day Holiday
July 7	Monday	Classes Resume, 8:00 a.m.
August 6	Wednesday	Final Examinations Begin
August 9	Saturday	Session Closes, end of day

Summer Session 6 (12 Weeks)

Date	Weekday	Event
May 19	Monday	Classes Begin, 8:00 a.m.
May 26	Monday	Memorial Day Holiday
May 27	Tuesday	Classes Resume, 8:00 a.m.
July 4	Friday	Independence Day Holiday
July 7	Monday	Classes Resume, 8:00 a.m.
August 6	Wednesday	Final Examinations Begin
August 9	Saturday	Session Ends, end of day
August 9	Saturday	Summer Commencement

Degree Programs

Undergraduate Degrees (Majors)

Programs	Degree(s)	Emphasis Area(s)
Accounting	BS (p. 255)	
Anthropology	BA (p. 53)	
Art History	BA (p. 394)	
Biochemistry and Biotechnology	BS (p. 81)	
	BA (p. 94), BS (p. 94)	Cellular and Molecular Biology; Ecology, Evolution and Systematics
	BSBA (p. 256)	Finance; International Business; Logistics and Operations Management; Marketing
-	BA (p. 114), BS (p. 114)	
	BSCE (p. 520)	Construction Engineering; Environmental Engineering Science
Communication	BA (p. 409)	
Computer Science	BS (p. 188)	
Criminology and Criminal Justice	BS (p. 124)	
Early Childhood Educaton	BSED (p.	
	BA (p. 131), BS (p. 131)	
	BES (p. 313)	
	BSEE (p. 520)	
-	BSED (p. 335)	
English	BA (p. 140)	
History	BA (p. 161)	
Information Systems	BS (p. 259)	
Interdisciplinary Studies	BIS (p. 175)	
Liberal Studies	BLS (p. 175)	
	BA (p. 188), BS (p. 188)	
	BSME (p. 520)	
Media Studies	BS (p. 433)	
Modern Language	BA (p. 61)	French, German, Japanese, Spanish
	BA (p. 416), BM (p. 416)	Elective Studies in Bus (BM only); Performance (BM only); Music Education (BM only); Theory/ Composition (BM only)
_	BSN (p. 446)	
Philosophy	BA (p. 201)	Pre-Law, Science Studies, Psychology and Neuroscience, Ethics and Society, Health Sciences, History
•	BSED (p. 376)	PK-9; PK-12
	BA (p. 213), BS (p. 213)	Astrophysics (BS only); Engineering Physics (BS only); General Physics (BS only); Medical Physics (BS only)
Political Science	BA (p. 223)	
Psychology	BA (p. 241)	

Public Policy and Administration	BSPPA (p.)	
Secondary Education	BSED (p. 376)	Business Education; English; Mathematics; Modern Foreign Language-French; Modern Foreign Language-German; Modern Foreign Language-Spanish; Modern Foreign Language-Japanese; Music; Science-Biology; Science-Chemistry; Science-Physics; Social Studies-Economics; Social Studies-History; Social Studies-Poli Science; Social Studies-Psychology; Social Studies-Sociology
Social Work	BSW (p. 510)	
Sociology	BA (p. 74), BS (p. 74)	
Special Education	BSED (p. 335)	Emotionally Disturbed; Learning Disability; Mentally Retarded
Studio Art	BFA (p. 395)	Drawing; General Fine Arts; Graphic Design; Photography; Painting; Printmaking; Art Education
Theater and Dance	BA (p. 433)	

Undergraduate Minors

Not all minors are appropriate to all degrees, however; please check with your advisor before selecting a minor or certificate.

- Accounting (p. 259)
- · American Politics
- Anthropology (p. 53)
- · Athletic Coaching
- Biology (p. 94)
- Chemistry (p. 114)
- Classical Studies (p. 61)
- Communication (p. 409)
- · Comparative Politics
- Computer Science (p. 188)
- Criminology and Criminal Justice (p. 124)
- Economics (p. 131)
- English (p. 139)
- Environmental Studies
- Finance (p. 259)
- French (p. 61)
- Gender Studies (p. 155)
- General Business (p. 259)
- German (p. 61)
- History (p. 161)
- History of Science and Technology (p. 161)
- Information Systems (p. 259)
- International Business (p. 259)
- International Relations
- Japanese (p. 61)
- Jazz Studies
- Legal Studies
- Literacy (p. 335)
- · Logistics and Operations Management (p. 259)
- Management (p. 259)
- Marketing (p. 259)
- Mathematics (p. 188)
- Mathematics Education K-5
- Media Studies (p. 433)
- Modern Language (p. 61)
- Music (p. 416)

- Nonprofit Administration (p. 223)
- Philosophy (p. 200)
- · Philosophy of Science and Technology
- · Political Science
- · Political The (p. 223)ory
- Psychology (p. 241)
- Public Administration (http://www.umsl.edu/bulletin/as/philosophy.html#admin)
- Public Affairs Journalism
- Public Law (p. 223)
- Public Policy (p. 223)
- Sociology
- Spanish
- Statistics
- · Studio Art
- Theatre and Dance
- Transportation Studies (p. 259)
- Urban Education P-5
- Urban Politics (p. 223)
- Women and Politics (p. 223)

Undergraduate Certificates

- Post-Baccalaureate Certificate in Accounting
- Actuarial Studies
- Archaeology
- Advertising
- · African Studies
- · Biochemistry
- Biotechnology
- · Conservation Biology
- Creative Writing
- East Asian Studies
- Evolutionary Studies (p. 175)
- · Film Studies
- Gender Studies
- Gerontological Studies
- · Greek Studies
- History and Philosophy of Science and Technology
- · Honors College
- International Business
- Labor Studies
- · Latin American Studies
- Modern European Studies
- Neuroscience
- Photographic Studies
- Public Relations
- · Studies in Religions
- · Trauma Studies
- Women, Political Leadership and Public Policy (p. 223)
- · Professional Writing

Other Instructional Areas

In addition to the degrees and emphasis areas above, many departments offer specializations in several subject areas, including the following:

- American Studies
- Arabic
- Archaeology
- Astronomy
- Atmospheric Science
- Chinese
- Classical Studies
- Dance
- Ensemble Performance
- Geology
- Legal Studies
- Literature
- Medical Physics
- Pre-Engineering
- Pre-Health Sciences
- Pre-Law
- Pre-Veterinary Science
- Public Law
- Public Relations
- Reserve Officer Training Corps

Graduate Degrees

Programs	Degree(s)	Emphasis Area(s)
Accounting	MACC (p. 282)	
Adult and Higher Education	MED (p. 358)	Adult Education; Higher Education
Applied Mathematics	PHD (p. 191)	Computer Science; Mathematics
Biochemistry and Biotechnology	MS (p. 119)	
Biology	MS (p. 102), PHD (p. 102)	Cellular and Molecular Biology; Ecology, Evolution and Systematics
Business Administration	MBA (p. 283), PHD (p. 288)	Accounting; Finance; Information Systems; International Business; Logistics & Supply Chain Management; Management; Marketing; Operations Management
Chemistry	MS (p. 119), PHD (p. 119)	Biochemistry; Inorganic; Organic; Physical
Communication	MA (p. 411)	
Computer Science	MS (p. 191)	
Counseling	MED (p. 324)	Clinical Mental Health Counseling; Elementary; Secondary
Creative Writing	MFA (p. 145)	
Criminology and Criminal Justice	MA (p. 126), PHD (p. 126)	
Economics	MA (p. 133)	Business Economics; General Economics
Education	EDD (p. 343), PHD (p. 315)	Adult & Higher Education; Counselor Education; Educational Administration; Teaching-Learning Processes

Educational Administration	EDS (p. 358), MED (p. 358),	Community Education; Elementary Administration; Secondary Administration;
Educational Psychology	MED (p. 368)	Character Education and Citizenship Education; Educational Research and Program Evaluation
Elementary Education	MED (p. 343)	General; Early Childhood; Reading
English	MA (p. 145)	Literature; Writing Studies
Gerontology	MS (p. 505)	
History	MA (p. 163)	Museum Studies
Information Systems	MS (p. 287)	
Mathematics	MA (p. 191)	
Music Education	MME (p. 421)	
Nursing	MSN (p. 460), DNP (p. 463), PHD (p. 464)	Adult Nurse Practitioner; Family Nurse Practitioner; Neonatal Nurse Practitioner; Nurse Educator; Nurse Leader; Pediatric Nurse Practitioner; Women's Health Nurse Practitioner
Philosophy	MA (p. 205)	
Physics	MS (p. 216)	Applied Physics; Astrophysics
Political Science	MA (p. 229), PHD (p. 229)	American Politics; Comparative Politics; International Politics; Political Process and Behavior; Public Admin and Public Policy; Urban and Regional Politics
Psychology	MA (p. 244), PHD (p. 244)	Behavioral Neuroscience; Clinical-Community Psychology; Industrial and Organizational Psychology
Public Policy and Administration	MPPA (p. 491)	Health Policy; Local Government Mgmt; Managing Human Resources and Organization; Nonprofit Organization Mgmt; Policy Research and Analysis
School Psychology	EDS (p. 368)	
Secondary Education	MED (p. 379)	General; Curriculum and Instruction; Middle Level Education; Reading; Teaching English to Speakers of Other Languages
Social Work	MSW (p. 511)	
Special Education	MED (p. 343)	Early Childhood Special Education; Autism and Developmental Disabilities; Cross Categorical Disabilities

Professional Degree

Optometry OD (p. 476)

Graduate Certificates

- ACP Instructional Communication
- Autism Studies
- Biotechnology
- Business Administration
- Community College Leadership
- Gender Studies
- Gerontology
- History Education
- Human Resource Management
- Institutional Research
- International Studies
- Local Government Management
- Logistics and Supply Chain Management

- Marketing Management
- Museum Studies
- Non Profit Organization Management and Leadership
- Post MSN Adult-Geriatric Nurse Practitioner
- Post MSN Family Nurse Practitioner
- Post MSN Pediatric Nurse Practitioner
- Post MSN Women's Health Nurse Practitioner
- Program Evaluation and Assessment
- Psychology Clinical Re-specialization
- Public History and Cultural Heritage (p. 163) (pending CBHE approval)
- Secondary School Teaching
- Student Affairs Administration and Leadership (p. 358)
- Teaching English to Speakers of Other Languages
- · Teaching of Writing
- Trauma Studies
- Tropical Biology and Conservation

General Regulations

Courses

Course Numbering

Each course bears a distinguishing number that identifies it within the department or academic unit and indicates, broadly, the expected level of students taking the course. To understand the course level, refer to the following guidelines:

Course Numbers

Explanation

1-999

Courses that do not count toward the minimum requirements for any degree.

Lower Division:

1000-1999

Courses open to undergraduate students, primarily focused toward freshmen; courses count toward the minimum for given degrees.

2000-2999

Courses open to undergraduate students, primarily focused toward sophomores; courses count toward the minimum for given degrees

Upper Division:

3000-3999

Courses open to undergraduate students, primarily focused toward junior; courses count toward the minimum for given degrees.

4000-4999

Courses open to undergraduate and graduate students, primarily focused toward seniors; courses count toward the minimum for given undergraduate degrees; depending on the specific program, courses may count for a given graduate degree.

Graduate:

5000-5999

Graduate courses; also open to post-baccalaureate educator certification candidates and undergraduate seniors with permission from the Dean of the Graduate School. Courses count toward the minimum for given graduate degrees.

6000-6999

Graduate courses open to master's degree and doctoral students. Courses count toward the minimum for given graduate degrees.

7000-7999

Graduate courses open to doctoral students and master's degree students with special permission. Courses count toward the minimum for specific graduate degrees.

Optometry:

8000-8999

Courses open to optometry degree seeking students.

Credit Hours

The university credit unit is the semester hour, which represents a subject pursued one period weekly for one semester of approximately 16 weeks or for a total of approximately 16 periods for one term. Generally, a course valued at three semester hours meets for three periods weekly for one semester, a twocredit course two periods a week for a semester, and so on. Normally, the lecture or recitation period is 50 minutes long and the laboratory period one hour and 50 minutes.

The number of credit hours is listed as units in the online Schedule of Courses. If the credit is variable (to be determined in consultation with the instructor) it is shown by minimum and maximum units, such as Research 1-3 units. In the Bulletin, credit hours are included in parentheses after each course title e.g., Research (2-8).

Examinations

Examinations may be given only at regular class meeting times or as designated by the Senate Committee on Curriculum and Instruction.

Final Examinations.

The period designated for final examinations is an important component of the academic term. It provides faculty with a final opportunity to evaluate student learning and attainment of course objectives. Faculty members are encouraged to meet with students during the final examination period.

A faculty member who gives an in-class final examination may give this examination only on the day and at the time designated in the official final examination schedule. A majority vote of the students to the contrary does not change this policy.

A student may submit a written request for a change in the scheduled time of the final examination for a limited number of documented hardship reasons. These reasons include, but are not limited to, being scheduled to take more than two examinations on the same day, illness, military obligations, and religious practices. Except for emergencies, this request should be presented directly to the instructor at least two weeks before classes conclude. If the request is denied, the student may request additional consideration from the chairperson/area coordinator/program director and, if denied, to the dean of the college sponsoring the course.

Repeating Courses.

Students may not repeat for grade point average or credit hour purposes courses in which grades of A, A B+, B, B-, C+, or C have been earned. Subsequent grades in such a course that is repeated will not be included in the GPA calculations. The course hours will be counted only once in calculating hours toward a degree.

Enrollment and Graduation Policies Course Schedules

The Schedule of Courses contains the specific courses offered each semester with their meeting times and locations. This schedule is available online

Course schedules are generally published in mid-March for the fall semester, mid-October for the spring semester, and mid-January for the summer semester.

The university reserves the right to cancel without notice any course listed in the Bulletin or the Schedule of Courses for any semester or to withdraw any course that that does not have adequate enrollment.

Prerequisites for a Course

Students are expected to review all courses when registering for them to assure that they meet all prerequisites. When the prerequisites include courses, a minimum grade of C- is required to meet the prerequisite. Only the department offering the course with the prerequisite can make an exception to this requirement. A course with an "academic standing" prerequisite—for example, "senior standing"—requires that students have the class standing stated, in the example, only seniors can take that class.

Attendance

Students are expected to attend class regularly, and, in accordance with the UMSL Bylaws, faculty may establish penalties for excessive absences. Students absent for more than three successive classes may be reported to the dean. Students should tell their dean's office of an extended absence. An absence known in advance should be reported to the instructors of courses that will be missed. Makeup of examinations or work missed is allowed at the instructor's discretion. Students excused from class for valid reasons by their deans shall be permitted, if possible, to make up work missed; the dean must have notified the instructor in writing.

Section Changing

Section changing is normally completed during the first week of a regular semester, the first four days of an eight-week session and the first three days of a four-week session. Approvals may not be necessary during this time. However, after the first week of a regular semester, the first four days of an eight-week session, and the first three days of a four-week session, a section change form must be obtained from the department or dean's office. The signature of both instructors is required. The form is to be submitted to the Registration Office, 351 Millennium Student Center.

Registration

Newly admitted/re-admitted students are eligible to register after the close of the pre-registration period. Enrollment dates, Semester Calendars, and courses offerings can be found online at the Registration website.

Registering for Classes: Former Students

Former UMSL students who have not been enrolled for a year must submit a reenrollment application available in the Admission's Office.

Registering for Classes: Currently Enrolled Students

Currently enrolled students are given the opportunity to preregister, by appointment, before new or returning students. Pre-registration appointment times are sent to students' university email and can also be found by logging into MyView.

Auditor

Students may enroll as auditors in any course with the prior consent of the instructor and dean of the college in which the auditors desire to be registered. They may be dropped from the course when, in the judgment

of the instructor and dean, their record justifies such action. Auditors are charged full fees and receive no academic credit.

Registration Cancellation

Students who have enrolled and paid their fees but do not wish to attend the university may cancel their registration any time before the first day of the semester. Cancellations may be processed at the Office of the Registrar or by logging into MyView and dropping all classes. The refund schedule for cancellation of registration after class work begins can be found on the Cashier's Office website.

Fee Assessment

Fees for coursework vary due to the student's residency standing, undergraduate, graduate or post-graduate status, credit hours, and the applicability of any course fees charged to specific courses or programs. Detailed Information on tuition and fee rates and residency status can be found on the Cashier's website (http://www.umsl.edu/cashiers).

Financial Responsibility

Each semester, a Financial Responsibility agreement (http://www.umsl.edu/cashiers/student-parent/student-responsibility.html) will be presented to all students. The agreement explains the billing methods, payment options and all policies related to student accounts. It is the responsibility of the student that fees and other financial obligations are paid as they become due regardless of who is making the payments. Students who need assistance in meeting financial obligations to the university should contact the Financial Aid Office in a timely manner. Students are expected to adhere to important dates and policies that impact fees. Due dates and fee reassessment dates are posted on the Cashier's website (http://www.umsl.edu/cashiers) and through links on the eBill website (http://www.umsl.edu/cashiers/billing-payment/view-pay.html). The non-payment of any financial obligation may result in additional collection fees, the inability to register and the withholding of student records.

Billing

The Cashier's Office bills you by posting a monthly student account billing statement on eBill around the 10th of any month in which there's a new charge or credit on your account. The Cashier's Office will send you and your authorized payer (if any) a billing notification email reminder to check your statement and pay any balance due. The mail.umsl.edu email address will be used for students and the authorized payers email address will be used for authorized payers.

Payment of Fees

Payments are due on the first day of each month. The minimum payment can be found at the top of the monthly billing statement or by checking the percentage due as shown in the billing schedules (http://www.umsl.edu/cashiers/billing-payment/billing-schedules.html) on the Cashier's website. If a student chooses to make the minimum payment or a partial payment, a finance charge of 1% will be assessed on the unpaid billed balance. The monthly 1% finance charge can be avoided by paying the balance in full. A \$10 late payment fee will be charged to student accounts which have been billed and not paid by the due date.

All fees, fines, bookstore charges, etc. must be paid by the last day of the term. After the term ends, unpaid accounts will be turned over to an outside collection agency. Collection agency fees of up to 50% of the unpaid account balance will be added to the student's account. Student

accounts must be paid in full before a student will be permitted to register for upcoming semesters or receive transcripts or a diploma.

Payment Options

Online – Log on to the MyView (https://myview.umsl.edu/psp/prd/? cmd=login&languageCd=ENG&) student system to make payment using a personal checking or savings account or a MasterCard, Discover or American Express credit card.(2.75% service charge applied to credit card payments) VISA credit cards are NOT accepted.

Mail – Send your check or money order to the Cashier's Office at: University of Missouri - St. Louis 285 Millennium Student Center (MC 212) One University Blvd. St. Louis, MO 63121-4400. Include student name and student number on the check or money order.

In person – Visit the Cashier's Office on the second floor of the Millennium Student Center in room 285. Payment in cash, check, money order or pin based MasterCard or VISA debit are accepted at the cashier stations. Credit card payments cannot be processed at the cashier stations, but are accepted online from http://ebill.umsl.edu.

Payment Kiosks – Payment from a personal checking or savings account or by MasterCard, Discover, or American Express credit card can be made at any of the four payment kiosks located in the MSC. (2.75% service charge applied to credit card payments) VISA credit cards are NOT accepted.

Payment Drop Box – A secure payment drop box is situated just outside the Cashier's Office, room 285 of the Millennium Student Center. Only check or money order payments, please.

Any communications concerning disputed debts, including instruments tendered as full satisfaction of debt, must be sent to Account Disputes, 1 University Blvd., 289 Millennium Student Center, St. Louis, MO 63121-4400.

Any check presented to the university for payment that is returned unpaid will be assessed a \$20.00 returned check fee in addition to any fees that the bank may charge.

ERDPP – Employer Reimbursement Deferred Payment Program (http://www.umsl.edu/cashiers/tuition-fees/erdpp.html). Many companies offer tuition reimbursement to their employees. While the student is ultimately responsible for the payment of their tuition and fees, the Cashier's Office offers the ERDPP program to allow a student to take advantage of this employer benefit by deferring payment of all, or a portion, of their tuition and related costs. There is a \$50.00 application fee each semester.

Financial Aid – If you have applied for financial aid in advance and have received an award letter, your letter describes how much of your award will be paid towards your student fees. If your financial aid does not cover all the fees, then you must pay the remainder of your student fees yourself by the due date. Financial aid that has not yet been disbursed will appear on your monthly billing statement as "Anticipated Aid". Your statement will reflect Anticipated Aid as being deducted from your Account Balance giving you an Adjusted Amount Due. Your Minimum Payment is a percentage of the Adjusted Amount Due. Students should pay either the Adjusted Amount Due or the Minimum Payment by the due date to avoid a \$10 late payment fee.

Third Party Sponsor – When an organization makes a commitment to pay your educational expenses, they are considered a Third Party Sponsor (http://www.umsl.edu/cashiers/billing-payment/explanations/third-party.html). If you are expecting a third party sponsor to pay your

tuition and fees, you will need to have your sponsor submit a letter of authorization to the Cashier's Office. Once the sponsor's letter is received, a credit for the amount the sponsor has indicated will be applied to your student account. An invoice for this amount will then be sent to your sponsor. You are responsible for paying any charges not covered by your sponsor on time, to avoid finance and late charges or other penalties. If your sponsor ends up not paying for the charges they authorized, the responsibility of paying those charges defaults back to you.

Refunds

A credit balance is the result of an overpayment on a student's account from Financial Aid, loans or payments received. Credit balance refunds will be processed when a credit actually exists on the student's account. Anticipated Financial Aid must be received and posted to the student's account in order for a credit to exist and for a refund to be processed.

When financial aid funds are received by the University, the funds are applied to the students account. During the Fall and Spring semesters, financial aid funds are applied to student accounts no sooner than ten days prior to the start of classes. During the Summer semester, financial aid funds are applied to student accounts no sooner than the day the student is actually taking the course(s) that have the hours required to receive the aid. If the student has a credit balance after financial aid funds have paid all account charges in full, the student is now eligible for a refund.

Parent-Plus Loan Refund - Credit balances resulting from the disbursement of Parent-Plus Loans will be refunded directly to the parent.

Credit Card Refund - If a credit card payment has been made towards your student account in the past 60 days, any refund due to you will be returned to that credit card.

Drop/Withdrawal Refund – Students who are leaving school or dropping classes are responsible for canceling their registration and verifying that their classes have been dropped. Any refunding of fees will be made according to the reassessment schedule available on the Cashier's website. Fees reassessed may include Tuition and Course/Supplemental fees (if applicable). The Spring and Fall reassessment schedules only apply to regular 16 week session courses. The Summer reassessment schedules only apply to regular 4 week, 8 week and 12 week session courses. Fee reassessment for courses not in regular sessions will be based on the course's total number of calendar days (weekends and holidays included) and the number of calendar days that the student was enrolled in the course. If the meeting dates for your course are different from the regular session meeting dates, please contact the Cashier's Office as your fee reassessment for withdrawal or dropping may differ from the regular reassessment.

The refund process requires two to four weeks processing time after withdrawal or dropped classes. When a student completely withdraws from a semester and was receiving federal financial aid, the University and/or the student may be required to return some of the financial aid, awarded to the student.

Charges that students accrue prior to a refund being issued will be deducted from the refund amount. Charges that are accrued after a refund is issued will be billed to the student on the monthly billing statement. As student accounts go into credit balance, the Cashier's office processes refunds to students by checks through the mail and by direct deposit to students personal checking or savings accounts. Students should allow 7-10 business days from the day that the refund is processed to receive a refund check in the mail. For students that have direct deposit, please

allow 3-5 business days from the day that the refund is processed to receive the refund in your bank account.

Cancellation of Registration Due to Nonpayment of Fees

The university will attempt to notify any student whose registration is about to be administratively cancelled for nonpayment of fees prior to taking this action.

On or before the last day on which a student may enroll in a course, a cancelled student's space in a course will be given to other students on that course's wait lists. The cancelled student will be placed at the end of the course wait list.

Any student who has been administratively cancelled for nonpayment of assessed fees may not enroll in a class unless the required fees have been paid and the student has officially re-registered.

Cancelled students who re-register on or after the first day of the semester will be assessed an additional nonrefundable late registration charge.

Fees May Change Without Notice

The university reserves the right to modify by increase or decrease the fees charged for attendance and other services at the university, including but not limited to tuition or educational fees, at any time when in the discretion of the governing board the same is in the best interest of the University, provided that no increases can or will be effective unless approved by the governing board not less than thirty (30) days prior to the beginning of the academic term (semester, etc.) to which the fees are applicable, with all modification of fees to be effective irrespective as to whether fees have or have not been paid by or on behalf of a student prior to the effective date of the modification.

By registering for a class at any University of Missouri campus, students agree to abide by the Code of Student Conduct below. For more information about student conduct contact Student Conduct and Community Standards in the Office of Student Affair (301 Woods Hall; 314-516-5211).

Code of Student Conduct

200.010 Standard of Conduct Amended March 20, 1981; August 3, 1990; May 19, 1994; May 24, 2001; July 27, 2012 (http://www.umsystem.edu/ums/rules/collected_rules/programs/ch200)

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University's function as an educational institution and voluntarily enters into a community of high achieving scholars. Consequently, students assume new privileges along with new responsibilities in accordance with the University's mission and expectations.

These expectations have been established in order to protect a specialized environment conducive to learning which fosters integrity, academic success, personal and professional growth, and responsible citizenship.

 Jurisdiction of the University of Missouri generally shall be limited to conduct which occurs on the University of Missouri premises or at University-sponsored or University-supervised functions. However, nothing restrains the administration of the University of Missouri from taking appropriate action, including, but not limited to, the imposition

- of sanctions under Section 200.020(C), against students for conduct on or off University premises in order to protect the physical safety of students, faculty, staff, and visitors.
- Conduct for which students are subject to sanctions falls into the following categories:
 - a. Academic dishonesty, such as cheating, plagiarism, or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student's grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.
 - i The term cheating includes but is not limited to: (i) use of any unauthorized assistance in taking quizzes, tests, or examinations; (ii) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (iii) acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff; or (iv) knowingly providing any unauthorized assistance to another student on quizzes, tests, or examinations.
 - ii The term plagiarism includes, but is not limited to: (i) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.
 - iii The term sabotage includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.
 - Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.
 - Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.
 - d. Physical abuse, threats of violence, or other conduct which threatens or endangers the health or safety of any person.
 - e. Nonconsensual sexual behavior including but not limited to rape; sexual assault; nonconsensual sexual touching of the genitals, breast or anus of another person or the touching of another with one's own genitals whether directly or through the clothing; or exposing one's genitals to another under circumstances in which he or she should reasonably know that his or her conduct is likely to cause affront or alarm, or sexual harassment.
 - f. Stalking another by following or engaging in a course of conduct with no legitimate purpose that puts another person reasonably in fear for his or her safety or would cause a reasonable person under the circumstances to be frightened, intimidated or emotionally distressed.

- g. Harassment by engaging in a course of conduct directed at a specific person that serves no legitimate purpose that would cause a reasonable person under the circumstances to be frightened, intimidated, or emotionally distressed.
- h. Invasion of privacy by photographing or recording (using electronic or other means) another person in a state of full or partial nudity in a place where one would have a reasonable expectation of privacy without that person's consent, and distributing or transmitting that image without that person's consent.
- Participating in attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.
- Unauthorized possession, duplication or use of keys to any University facilities or unauthorized entry to or use of University facilities.
- k. Violation of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.
- I. Manufacture, use, possession, sale or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations, including operating a vehicle on University property, or on streets or roadways adjacent to and abutting a campus, under the influence of alcohol or a controlled substance as prohibited by law of the state of Missouri.
- m. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.
- Failure to comply with directions of University officials acting in the performance of their duties.
- The illegal or unauthorized possession or use of firearms, explosives, other weapons, or hazardous chemicals.
- p. Misuse in accordance with University policy of computing resources, including but not limited to:
 - i Actual or attempted theft or other abuse.
 - ii Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
 - iii Unauthorized transfer of a file.
 - iv Unauthorized use of another individual's identification and password.
 - v Use of computing facilities to interfere with the work of another student, faculty member, or University official.
 - vi Use of computing facilities to interfere with normal operation of the University computing system.
 - vii Knowingly causing a computer virus to become installed in a computer system or file.

Student Disciplinary Matters

200.020 RULES OF PROCEDURES IN STUDENT CONDUCT MATTERS (http://www.umsystem.edu/ums/rules/collected_rules/programs/ch200)
Bd. Min. 11-8-68, Amended Bd. Min. 3-20-81; Bd. Min. 12-8-89,
Amended 5-19-94; Bd. Min. 5-24-01; Bd. Min. 7-27-12.

- 1. Preamble. The following rules of procedure in student conduct matters are hereby adopted in order to insure insofar as possible and practicable (a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University, (b) that the immediate effectiveness of Section 10.030, which is Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and (c) that procedures shall be definite and determinable within the University of Missouri.
- Definitions. As used in these rules, the following definitions shall apply:
 - a. Primary Administrative Officers. As used in these procedures, the Chief Student Affairs Administrator on each campus is the Primary Administrative Officer except in cases of academic dishonesty, where the Chief Academic Administrator is the Primary Administrative Officer. Each Primary Administrative Officer may appoint designee(s) who are responsible for the administration of these conduct procedures, provided all such appointments must be in writing, filed with the Chancellor of the campus, and the office of General Counsel. The Primary Administrator's Office will certify in writing that the given designee has been trained in the administration of student conduct matters.
 - b. Student Panel. A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee, not more than three students to serve with the Student Conduct Committee.
 - c. Student. A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.
 - d. Student Conduct Committee. As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus which is authorized to conduct hearings and to make dispositions under these procedures or a Hearing Panel of such body as herein defined.

3. Sanctions.

- a. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code; more than one of the sanctions may be imposed for any single violation:
 - Warning. A notice in writing to the student that the student is violating or has violated institutional regulations.
 - ii Probation. A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.
 - iii Loss of Privileges. Denial of specified privileges for a designated period of time.
 - iv Restitution. Compensation for loss, damage, or injury to the University or University property. This may take the form of appropriate service and/or monetary or material replacement.
 - Discretionary Sanctions. Work assignments, service to the University, or other related discretionary assignments.

- vi Residence Hall Suspension. Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- vii Residence Hall Expulsion. Permanent separation of the student from the residence halls.
- viii University Dismissal. An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.
- ix University Suspension. Separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
- x University Expulsion. Permanent separation of the student from the University.
- b. Temporary Suspension. The Chancellor or Designee may at any time temporarily suspend or deny readmission to a student from the University pending formal procedures when the Chancellor or Designee finds and believes from available information that the presence of a student on campus would seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.
- Records Retention. Student conduct records shall be maintained for five years after University action is completed.
- 5. Policy and Procedures.
 - a. Preliminary Procedures. The Primary Administrative Officer/ Designee(s) shall investigate any reported student misconduct before initiating formal conduct procedures and give the student the opportunity to present a personal version of the incident or occurrence. The Primary Administrative Officer/ Designee(s) may discuss with any student such alleged misconduct and the student shall attend such consultation as requested by the Primary Administrative Officer/Designee(s). The Primary Administrative Officer/Designee(s), in making an investigation and disposition, may utilize student courts and boards and/or divisional deans to make recommendations.
 - b. Informal Dispositions. The Primary Administrative Officer/ Designee(s) shall have the authority to make a determination and to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed may be deemed by the University to be an acceptance of the determination, provided the student has received written notice of the proposed determination and the result of the student's failure to formally reject and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition it must be in writing and shall be forwarded to the Committee. The Primary Administrative Officer/Designee(s) may refer cases to the Committee without first offering informal disposition.
 - c. Formal Procedure and Disposition.
 - i Student Conduct Committee:
 - The Committee shall be appointed by the Chancellor and shall have the authority to impose

- appropriate sanctions upon any student or students appearing before it.
- 2. The Committee, when appropriate or convenient, may be divided by the Chair of the Committee into Hearing Panels, each panel to be composed of at least five Committee members, which may include a maximum of two students, present at the hearing, including a designated chair. A Hearing Panel has the authority of the whole Committee in those cases assigned to it. The Chair of the Committee or of a Hearing Panel shall count as one member of the Committee or Hearing Panel and have the same rights as other members.
- 3. Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventy-two (72) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in 3.a.(2)) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same rights as other members of the Committee or Hearing Panel.
- ii General Statement of Procedures. A student charged with a breach of the Student Conduct Code is entitled to a written notice and a formal hearing unless the matter is disposed of under the rules for informal disposition. Student conduct proceedings are not to be construed as judicial trials and need not wait for legal action before proceeding; but care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The Office of the General Counsel shall be legal adviser to the Committee and the Primary Administrative Officer/Designee(s).
- iii Notice. The Primary Administrative Officer/Designee(s) shall initiate student conduct proceedings by arranging with the Chair to call a meeting of the Committee and by giving written notice by certified mail or personal delivery to the student charged with misconduct. The notice shall set forth the date, time, and place of the alleged violation and the date, time, and place of the hearing before the Committee. Notice by certified mail may be addressed to the last address currently on record with the University. Failure by the student to have a current correct local address on record with the University shall not be construed to invalidate such notice. The notice shall be given at least seven (7) consecutive days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair, who shall have the authority to continue the hearing if the request is timely and made for good cause. The Chair shall notify the Primary Administrative Officer/Designee(s) and the student of the new date for the hearing. If the student fails to appear at the scheduled time, the Committee may hear and determine the matter.

- d. Right to Petition for Review: (other than University expulsion, University dismissal, or University suspension).
 - i In all cases where the sanction imposed by the Committee is other than University expulsion, University dismissal, or University suspension, the Primary Administrative Officer/Designee(s), the charged student or the alleged victim, (referred to hereafter as the "complainant") in the case of nonconsensual sexual behavior may petition the Chancellor or Designee in writing for a review of the decision within five (5) calendar days after written notification. A copy of the Petition for Review must also be served upon the nonappealing party or parties within such time. The Petition for Review must state the grounds or reasons for review in detail, and the nonappealing party or parties may answer the petition within five (5) calendar days.
 - ii The Chancellor or Designee may grant or refuse the right of review. In all cases where the Petition for Review is refused, the action of the Committee shall be final. If the Chancellor or Designee reviews the decision, the action of the Chancellor shall be final unless it is to remand the matter for further proceedings.
- e. Right of Appeal (University expulsion, University dismissal, or University suspension only).
 - i When a charged student is expelled, dismissed, or suspended from the University by the Committee, the Primary Administrative Officer/Designee(s), the charged student or the complainant in the case of nonconsensual sexual behavior may appeal such decision to the Chancellor or Designee by filing written notice of appeal stating the grounds or reasons for appeal in detail with the Chancellor within ten (10) calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal will contemporaneously be given by the charged student to the Primary Administrative Officer/Designee(s) and complainant or by the Primary Administrative Officer/Designee(s) to the charged student and complainant, or by the complainant to the charged student and Primary Administrative Officer/Designee(s). The appealing party may file a written memorandum for consideration by the Chancellor with the Notice of Appeal, and the Chancellor may request a reply to such memorandum by the appropriate party.
 - ii The Chancellor or Designee shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify each party in writing of the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings.
- f. Status During Appeal. In cases of suspension, dismissal, or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. In such event, however, any final sanctions

- imposed shall be effective from the date of the action of the Committee.
- g. Student Honor System. Forums under the student honor systems established for investigating facts, holding hearings, and recommending and imposing sanctions are authorized when the student honor code or other regulations containing well defined jurisdictional statements and satisfying the requirements of Section 10.030, which is Article V of the Bylaws of the Board of Curators, have been reduced to writing and have been approved by the Chancellor and the Board of Curators and notice thereof in writing has been furnished to students subject thereto. Though the student honor system has jurisdiction, together with procedures set forth therein, instead of the Primary Administrative Officer/Designee(s), the standard of conduct called for in any such student honor system shall be deemed to contain at a minimum the same standards set forth in Section 200.010, entitled Standards of Conduct. Procedures shall satisfy the requirements of the Board of Curators' Bylaws, Section 10.030, which is Article V, and shall contain procedures herein before stated insofar as appropriate and adaptable to the particular situation and shall be approved by the Chancellor and the General Counsel. Students subject to student honor systems shall have the rights of appeal as set forth in Section 200.020 E.6 and 7.

6. Hearing Procedures.

a. Conduct of Hearing. The Chair shall preside at the hearing, call the hearing to order, call the roll of the Committee in attendance, ascertain the presence or absence of the student charged with misconduct, read the notice of hearing and charges and verify the receipt of notices of charges by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, and call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

In cases where the misconduct charged is nonconsensual sexual behavior, the complainant will be afforded the same rights in the hearing as the accused student as described below. In such cases, questions between the accused student and the complainant will be made through the Chair.

- i Opening Statements.
 - The Primary Administrative Officer/Designee(s) shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed.
 - The student charged may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation. In cases of nonconsensual sexual behavior the complainant may likewise make a statement to the Committee at either time.
- ii University Evidence.
 - University witnesses are to be called and identified or written reports of evidence introduced as appropriate.
 - 2. The Committee may question witnesses at any time.

3. The student charged or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation. In cases of nonconsensual sexual behavior the complainant may also question witnesses or examine evidence at the conclusion of the University's presentation and the student charged's questions. In such cases, questions between the charged student and the complainant will be made through the Chair.

iii Charged Student Evidence.

- If the student charged has not elected to make a statement earlier under a.(2) above, the student shall have the opportunity to make a statement to the Committee about the charge.
- 2. The student may present evidence through witnesses or in the form of written memoranda.
- 3. The Committee may question the student or witnesses at any time. The Primary Administrative Officer/Designee(s) may question the student or witnesses. In cases of nonconsensual sexual behavior the complainant may question witnesses. In such cases, questions between the complainant and the charged student will be made through the Chair.
- iv Complainant's Evidence (in cases of nonconsensual sexual behavior)
 - If the complainant has not elected to make a statement earlier under a.(2) above, the complainant shall have the opportunity to make a statement to the Committee about the charge.
 - The complainant may present evidence through witnesses or in the form of written memoranda.
 - The Committee may question the complainant or witnesses at any time. The charged student may question witnesses. Questions between the charged student and the complainant will be made through the Chair.
- v Rebuttal Evidence. The Committee may permit the University or the charged student, or in cases of nonconsensual sexual behavior, the complainant to offer a rebuttal of the other's presentation(s).
- vi Rights of Student Conduct Committee. The Committee shall have the right to:
 - Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each student;
 - Permit a stipulation of facts by the Primary Administrative Officer/Designee(s) and the student involved;
 - Permit the incorporation in the record by reference of any documentation, produced and desired in the record by the University or the student charged;
 - Question witnesses or challenge other evidence introduced by either the University or the student at any time;
 - Hear from the Primary Administrative Officer/ Designee(s) about dispositions made in similar

- cases and any dispositions offered to the student appearing before the Committee;
- Call additional witnesses or require additional investigation;
- Dismiss any action at any time or permit informal disposition as otherwise provided:
- 8. Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Committee before final determination of the case; provided, however, that in such event the Committee shall grant to the student or Primary Administrative Officer/Designee(s) such time as the Committee may determine reasonable under the circumstances to answer or explain such additional matters;
- Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Chair of the Committee;
- 10.Suspend summarily students from the University who, during the hearing, obstruct or interfere with the course of the hearing or fail to abide by the ruling of the Chair of the Committee on any procedural question or request of the Chair for order
- Rights of Students Charged Upon Hearing and of Complainants in the Case of Nonconsensual Sexual Behavior.
 A student appearing before a Committee shall have the right to:
 - i Be present at the hearing;
 - Have an adviser or counselor and to consult with such adviser or counselor during the hearing;
 - iii Hear or examine evidence presented to the Committee;
 - iv Question witnesses present and testifying;
 - v Present evidence by witnesses or affidavit;
 - vi Make any statement to the Committee in mitigation or explanation of the conduct in question;
 - vii Be informed in writing of the findings of the Committee and any sanctions it imposes; and
 - viii Request review or appeal to the Chancellor as herein provided.
- c. Determination by the Student Conduct Committee. The Committee shall then make its findings and determinations based on the preponderance of the evidence in executive session out of the presence of the Primary Administrative Officer/Designee(s) and the student charged. Separate findings are to be made:
 - i As to the conduct of the student, and
 - ii On the sanctions, if any, to be imposed. No sanctions shall be imposed on the student unless a majority of the Committee present is convinced by the preponderance of the evidence that the student has committed the violation charged.
- d. Official Report of Findings and Determinations. The Committee shall promptly consider the case on the merits and make its findings and determination and transmit them to the Primary Administrative Officer/Designee(s) and the student charged forthwith.

- e. Other Procedural Questions. Procedural questions which arise during the hearing not covered by these general rules shall be determined by the Chair, whose ruling shall be final unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.
- f. General Rules of Decorum. The following general rules of decorum shall be adhered to:
 - All requests to address the Committee shall be addressed to the Chair.
 - ii The Chair will rule on all requests and points of order and may consult with Committee's legal adviser prior to any ruling. The Chair's ruling shall be final and all participants shall abide thereby, unless the Chair shall present the question to the Committee at the request of a member of the Committee, in which event the ruling of the Committee by majority vote shall be final.
 - iii Rules of common courtesy and decency shall be observed at all times.
 - iv An adviser or counselor may be permitted to address the Committee at the discretion of the Committee. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.
- g. Record of Hearing. An audio, video, digital, or stenographic record of the hearing shall be maintained. The notice, exhibits, hearing record, and the findings and determination of the Committee shall become the "Record of the Case" and shall be filed in the Office of the Primary Administrative Officer/Designee(s) and for the purpose of review or appeal be accessible at reasonable times and places to both the University and the student(s) entitled to review or appeal.
- h. Crimes of Violence and Non-Forcible Sex Offences. In cases of alleged crimes of violence and non-forcible sex offences:
 - i The alleged victim is entitled to have an adviser or counselor present during his or her participation in the hearing.
 - ii The alleged victim and the accused shall be informed of the outcome of any campus disciplinary proceeding brought alleging a crime of violence or non-forcible sexual assault.

Policy on Hazing

Hazing, defined by the Fraternity Executive Association and accepted by the University of Missouri#St. Louis, is any intentional action taken or situation created, whether on or off university premises, that produces mental or physical discomfort, embarrassment, harassment, or ridicule. This includes but is not limited to: paddling in any form, creation of excessive fatigue, physical or psychological shocks, wearing apparel publicly which is conspicuous and not normally in good taste, engaging in public stunts and buffoonery, morally degrading or humiliating games and activities, involuntary labor, or any activity not consistent with the University of Missouri Board of Curators Standard of Student Conduct. The University of Missouri#St. Louis does not condone or tolerate hazing of any type by an organization, or by an individual against another individual.

The Office of Student Activities will investigate any incident in which a charge of hazing has been made. University recognition may be temporarily withdrawn pending hearings and due process procedures.

Should it be determined that a student organization or any of its members is guilty of hazing as previously defined, sanctions may include but are not limited to:

- Automatic and indefinite suspension of campus recognition or registration with an accompanying loss of all campus privileges (i.e. use of facilities, student services, etc.);
- 2. Disciplinary action against those members involved in the incident(s) including suspension or expulsion from the university.

Implementation: Each organizational president (or equivalent officer) is required to read and sign the university's Policy on Hazing at the first regular meeting at which he or she presides. This policy, signed by the incoming president (or equivalent officer), must accompany any notification of a change in officers submitted to the Office of Student Activities. Failure to do so will result in the automatic imposition of inactive status on the organization with an accompanying loss of all university privileges until such time as the signed policy is submitted.

The following equal opportunity policies have been established by the University of Missouri Board of Curators to govern the academic and administrative functions of the four campuses and are available on the UM System website.

320.010 EQUAL EMPLOYMENT OPPORTUNITY (http://www.umsystem.edu/ums/departments/gc/rules/personnel/320/010.shtml) **PROGRAM**

330.060 SEXUAL HARASSMENT (http://www.umsystem.edu/ums/departments/gc/rules/personnel/330/060.shtml)

240.040 POLICY RELATED TO STUDENTS WITH DISABILITIES (http://www.umsystem.edu/ums/departments/gc/rules/programs/240/040.shtml)

330.070 AFFIRMATIVE ACTION ON COMMITTEE APPOINTMENTS (http://www.umsystem.edu/ums/departments/gc/rules/personnel/330/070.shtml)

Should a student feel that the campus has not followed these policies, they have access to the University of Missouri (http://www.umsystem.edu/ums/rules/collected_rules/grievance/ch390/grievance_390.010)Discrimination Grievance Procedure for Students.

Students may contact the Student Advocate in Academic Affairs (http://www.umsl.edu/services/academic/student/advocate.html) to lodge complaints or seek information about these procedures.

Academic Dishonesty

Academic dishonesty is a serious offense that may lead to probation, suspension, or expulsion. One form of academic dishonesty is plagiarismthe use of an author's ideas, statements, or approaches without crediting the source. Academic dishonesty also includes such acts as cheating by copying information from another student's examination, take-home test, or laboratory manual. The code of student conduct is in this Bulletin and is also available in the UMSL Student Planner.

Honor Statement

The University of Missouri-St. Louis encourages students to pursue excellence within a respectful and collegial environment and to assume

responsibility for the consequences of personal actions. For that reason the university requires students to reject any type of dishonest behavior.

Honesty precludes seeking, providing, or receiving any form of unauthorized assistance on tests or any type of assignment. It requires giving credit through appropriate citation to the author of materials used in written or oral assignments.

The full Student Standard of Conduct is available on the Web and in the student planner. By registering for a class at UMSL, students agree to follow this standard of integrity.

These statements are set forth as guidelines and procedures to implement the University of Missouri policy on student records developed from the federal Family Educational Rights and Privacy Act of 1974.

The University of MissouriSt. Louis, as charged in the act, will annually inform its eligible students by including in the Student Planner, the Schedule of Courses, and the UMSL Bulletin the following information:

1. "Education Records" are those records, files, documents, and other materials that contain information directly related to a student and are maintained by the university. Those records, made available under The Family Educational Rights and Privacy Act of 1974, are student financial aid, the student's cumulative advisement file, student health records, disciplinary records, admissions file, and academic record. Confidential letters and statements of recommendation that were placed in student credential folders at the Office of Career Placement Services after January 1, 1975, are also made available, if the student has not waived the right to view these recommendations.

The University of MissouriSt. Louis "Education Records" do not include:

Records of instructional, supervisor, and administrative personnel and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible or revealed to any other person except a substitute.

Records of the University of Missouri Police Department created for a law enforcement purpose and maintained by the police department.

In the case of persons who are employed by the university but who are not in attendance at the university, records made and maintained in the normal course of business that related exclusively to such persons and that person's capacity as an employee where the records are not available for any other purpose.

All records on any university student that are created and maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his professional or paraprofessional capacity, or assisting in that capacity, and created, maintained, or used only in connection with the provision of treatment to the student, and are not available to anyone other than persons providing such treatment, provided, however, that such records can be personally reviewed by a physician or other appropriate professional of the student's choice.

1. The University of Missouri-St. Louis recognizes "Directory Information/Public Information" to mean a student's name, address, telephone listing, e-mail, enrollment status, current level, major field of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the

student. All students must inform the Office of the Registrar before the end of the twoweek period following the first day of classes if the information designated as directory information should not be released without the student's prior consent. The student privacy form is available on-line. Students may also change their privacy settings by logging in to MyView. The information listed above will become directory information or public information as of the first day of classes following the end of the twoweek period in a regular semester and the first day of classes following the end of the one-week period during the summer session.

 University of Missouri-St. Louis students have access to the educational records identified in Paragraph 1 above. In accordance with Public Law 93380 as amended, the University of MissouriSt. Louis will not make available to students the following materials:

Financial records of the parents of students or any information contained therein.

Confidential letters and statements of recommendation placed in the education records prior to January 1, 1975, if such letters or statements are not used for the purpose other than those for which they were specifically intended.

Confidential recommendations respecting admission to the university, application for employment and receipt of honor, or honorary recognition, where the student has signed a waiver of the student's rights of access as provided in 6.0404, the University Policy on Student Records.

- 1. The Director of Financial Aid, the appropriate academic dean, Assistant Vice Provost for Student Affairs: Health, Wellness, & Counseling Services, the Vice Provost for Student Affairs, the Director of Career Placement Services, the Director of Admissions, and the Registrar are the officials responsible for the maintenance of each type of record listed in Paragraph 1.
- Any student may, upon request, review his or her records and, if inaccurate information is included, may request the expunging of such information from the file. Such inaccurate information will then be expunded upon authorization of the official responsible for the file.
- 3. Students desiring to challenge the content of their record may request an opportunity for a hearing to challenge the content of the educational record in order to ensure that the record is not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.
- 4. The university official charged with custody of the records will attempt to settle informally any disputes with any student regarding the content of the university's educational records through informal meetings and discussions with the student.
- 5. Upon request of the student or the university official charged with custody of the records of the student, a formal hearing shall be conducted as follows:
 - a. The request for a hearing shall be submitted in writing to the chancellor, who will appoint a hearing officer or a hearing committee to conduct the hearing.
 - b. The hearing shall be conducted and decided within a reasonable period of time following the request for a hearing.
 The parties will be entitled to written notice 10 days prior to the time and place of the hearing.

- c. The hearing shall be conducted and the decision rendered by an appointed hearing official or officials who shall not have a direct interest in the outcome of the hearing.
- d. The student shall be afforded a full and fair opportunity to present evidence relevant to the hearing.
- e. The decision shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.

Either party may appeal the decision of the hearing official or officials to the campus chancellor. Appeal of the chancellor's decision is to the president. Appeal of the president's decision is to the Board of Curators.

- The University of Missouri-St. Louis will not mail grade reports to parents unless the student has completed the necessary authorization in the registrar's office.
- The University of MissouriSt. Louis may permit access to or release of the educational records without the written consent of the student to the parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954.
- 3. If any material or document in the educational record of a student includes information on more than one student, the student may inspect and review only such part of such material or document as relates to him or her or to be informed of the specific information contained in such part of such material.

Undergraduate Studies

Grading System

The grading system available to all faculty at UMSL consists of:

Letter Grade	Ranking
A	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
С	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0
FN	0
EX	Excused
DL	Delayed
FN	Failure/Non Participation

Faculty have full discretion in using full-letter grades, plus/minus grades, or any combination of full-letter and plus/minus grades. The student's grade point average is computed by dividing the total quality points (number of credit hours for a course, multiplied by the grade value received) by the number of hours taken (excluding grade modified hours). Students at UMSL may have three separate Grade Point Averages. The first is the Campus GPA, which is computed by dividing the quality points earned from the grades of each course taken through UMSL by the total course hours attempted at UMSL. Students who have attended any of the other three universities within the University of Missouri System will also have

a System GPA, which is computed by dividing the quality points earned from every course taken from a campus within the UM System. In addition, transfer students from outside the UM System will also have a transfer GPA, which is computed from all courses the student has taken outside the UMSL campus or the UM System. It is calculated by dividing the quality points of all courses by the hours attempted.

Unless a specific request is made through the Registrar's Office, the University of Missouri System does not distribute grade reports to students via postal mail. Final course grades can be obtained electronically by any of the following methods:

To access grades through the My Gateway system, students must know Single Sign On (SSO) ID and password, available through MyGateway.

Students may also view their grades on MyView, by following this path: Self Service > Student Center > Grade Tab under Academic History; select semester.

Students may request a printed copy of the grade report at no charge. Once requested, the grade report will be mailed to the official address of record. Requests may be made by phone, mail, e-mail, fax, or in person; contact information is available at the Registration website.

Education majors

Professional education courses must be completed with a grade point average of 2.50. Since no grade lower than a C 2.0 can be applied to the degree, a C- grade is not acceptable.

Delayed Grade

A student whose work is incomplete at the end of any semester and who has, in the instructor's judgment, sufficient reasons for failing to complete the work, may, with the approval of the instructor and department chairperson, be assigned a delayed grade. Such work must be made up no later than one semester after the incomplete grade is given, or the grade automatically becomes F. The dean may, in unusual circumstances, extend this time limitation (summer session is not counted as a semester). Instructors inform the registrar of a change in a delayed grade only via a special form.

Failure/Non participation

When students do not complete any graded assignments but do not officially withdraw from the course or the university, instructors may assign an FN. The F for Non-Participation cannot be changed to a grade and will be treated in GPA calculations as an F.

Satsfactory/Unsatisfactory Option

Undergraduate students may take up to 18 credit hours on a satisfactory/ unsatisfactory (S/U) grading basis. This includes courses taken as electives or those that satisfy general education requirements. Most courses required for a specific degree may not be taken on a satisfactory/ unsatisfactory basis. Academic departments may designate other courses within their jurisdiction that may not be taken under the option.

A satisfactory grade "S" is recorded when an instructor assigns the grade of A, A-, B+, B-, C+, or C-, and has no numerical value in computing students' cumulative grade point average; however, it does satisfy credit-hour-for graduation requirements. An unsatisfactory grade "U" is recorded when an instructor assigns the grades of D+, D, D-, or F. A course assigned a "U" grade will not satisfy credit hours for graduation. Grades will be recorded on transcripts as S or U

Students register for courses in the normal manner and may exercise the satisfactory/unsatisfactory option before the end of the first four weeks of a regular semester (or the first two weeks of a summer session). Requests for this option are made through the appropriate dean's office. Instructors are not informed of students taking courses on a satisfactory/ unsatisfactory basis until submitting course grades.

Audit

Audit has no numerical value in computing students' cumulative grade point average, nor does it satisfy any credit-hour graduation requirements.

Grade Modification

When the grade received in an initial attempt in a course at UMSL is a C-,D+, D, D-, F, or FN, the grade may be replaced in the calculation of the GPA by the grade received in a second or subsequent attempt of the same course at UMSL. All grades received in second and subsequent attempts will be included in GPA calculations. A maximum of five classes may be dropped from the calculation of the student's GPA. All attempts of a given course will appear on the official transcript with the grade(s) earned. The transcript will have an explanation that states that the GPA is calculated using all grades earned in a course except the initial attempt when a course has been repeated and grade modified.

Note: Grade modification is not automatic. After completing the second or subsequent attempt of the course to be modified, students must process the necessary paperwork with an academic adviser in the academic unit in which the student is currently enrolled.

Transcripts

The registrar will furnish transcripts to a student upon receipt of a completed and signed transcript request form online or in person in the Records Office, 269 MSC. Transcripts are furnished to third parties only if students have filed written consent with the Registrar's Office. Transcripts may also be requested online. There is a charge for each transcript.

Transcripts are not issued to or for students who have financial obligations to any university within the UM System until those obligations are paid in full.

Course Load

A normal fulltime semester course load is 15 semester credit hours. Minimum fulltime enrollment is 12 hours each semester, fall, spring, and summer. Students who have demonstrated the ability to carry more than 18 hours may do so with the approval of their dean.

Dropping/Adding Courses

To add courses to their original enrollment, students must get approval from their advisers. Students may not enter courses after the first week of class of a regular semester, the first four days of class of an eight-week session, or the first three days of class of a four-week session.

Courses may be dropped, without approval and without receiving a grade, through the fourth week of classes of a regular semester, the second week of classes of an eight-week session and the first week of classes of a four-week session. Spring, summer, and fall session calendars include specific deadlines. Students who officially drop one or some of their classes may have fees reassessed and/or refunded based on the current fee reassessment schedule.

During the 5th-12th week of classes, students may withdraw from a course with an "Excused" grade, providing they are passing the course and

receive the approval of their instructor and dean's office representative. Otherwise, a failing grade is given. Students not attending classes who fail to drop officially receive an F or FN grades, depending the level of participation in class. After the allowable period, "Excused" grades are given only in exceptional instances where the instructor's approval and dean's approval are given. These grades are recorded on the students' official records. If an F or FN grade is recorded, it is computed in the student's grade point average. No partial credit is granted to students who withdraw from a course during any semester or otherwise fail to complete the work required for full course credit. Please refer to the Semester Calendar to determine allowable timelines.

Section Changing

Section changing is normally completed during the first week of a regular semester, the first four days of an eight-week session and the first three days of a four-week session. Approvals may not be necessary during this time. However, after the first week of a regular semester, the first four days of an eight-week session, and the first three days of a four-week session, a section change form must be obtained from the department or dean's office. The signature of both instructors is required. The form is to be submitted to the Registration Office, 269 Millennium Student Center.

Withdrawing from the University after Classes Begin

After classes begin, students may withdraw from the university by completing the withdrawal form, available in the dean's office. During the first four weeks of a regular semester students may withdraw from the university without receiving grades. After this period, grades of F or "Excused" are issued, based on whether the student is passing or failing. After the regular semester's twelfth week, "Excused" grades are given only in exceptional instances with the instructor's and the dean's approvals. These grades are recorded on the student's official record at the end of the term. An F grade is counted in computing the grade point average. No partial credit is granted to students who withdraw from school during any semester or otherwise fail to complete the work required for full course credit. Students who stop attending classes without officially withdrawing from the university are issued an F or an FN grade. Both F and FN grades are counted in computing grade point averages. Fall, spring, and summer session calendars list specific withdrawal dates.

Declaring a Major

A student's first major, or undeclared major status, is determined by their application for admission. Undeclared freshmen and transfer students should declare a major before their second semester at UMSL. They can do this by following the procedures for a change of major outlined below.

Change of Major

While applying, students are typically not certain about the requirements for a major at UMSL. Students are encouraged to explore majors through professors, advisors, the Career Center, and co-curricular activities during their first semester at UMSL. If they want to change their major, they are encouraged to do so before their second semester at UMSL.

To change academic majors, a student should consult the advising office of the new major to determine their eligibility and which courses they have already completed apply toward the new major. The student must then submit the appropriate forms at the office of the college or school of their new major.

Academic Probation, Suspension, and Dismissal

Students whose campus cumulative grade point average falls below 2.0, will be placed on University Academic Probation. If students' campus cumulative GPA remains under 2.0 after serving two semesters on probation (not necessarily consecutive), then they may be suspended from the university. Students should consult with their respective dean's office for additional information.

Students suspended or dismissed from one school or college within the university shall not be admitted to any other school or college until they are eligible for readmission to the university. In order for suspended students to be considered for readmission to the university they must successfully complete at least one semester at an accredited post-secondary institution.

Academic Residence

Students must be in residence for at least 24 of the last 30 hours of graded credit (exclusive of courses graded on a satisfactory/unsatisfactory basis), except under unusual circumstances, to be decided by the dean.

Graduation

Students are expected to file a degree application form with their respective dean's office at least one year before the expected graduation date. The dean's office makes a final check to determine that all graduation requirements have been met. Students should check with the dean's office or an adviser to be sure their program fulfills the requirements of the department and college or school, as well as the university general requirements. To assure graduating at the end of a specific semester, all work for that semester and any delayed grades from previous semesters must be completed with the grades sent to the Office of the Registrar no later than the official date for submission of final semester grades.

Academic Recognition

Honor Societies

The following is a list of honor societies at the University of Missouri-St. Louis:

- Alpha Epsilon Rho (Communication)
- Alpha Mu Alpha (College of Business Administration-Marketing)
- Alpha Mu Gamma (Languages and Cultures)
- Alpha Phi Sigma (Criminology and Criminal Justice)
- Alpha Sigma Lambda
- Beta Alpha Psi (College of Business Administration, Accounting Majors)
- Beta Beta (Biology)
- Beta Gamma Sigma (College of Business Administration)
- · Beta Sigma Kappa (College of Optometry)
- Chi Sigma lota (Counseling and Family Therapy)
- Financial Management Association (College of Business Administration)
- Golden Key National Honour Society (Campus-wide)
- Kappa Delta Pi (College of Education)
- Lambda Alpha (Anthropology)
- · Omicron Delta Epsilon (Economics)
- · Phi Alpha (Social Work)

- Phi Alpha Theta (History)
- Phi Kappa Phi (Interdisciplinary)
- · Pi Alpha Alpha (Public Policy Administration)
- Pi Sigma Alpha (Political Science)
- Psi Chi (Psychology)
- Sigma Delta Pi (Spanish)
- Sigma Iota Rho (International Studies)
- Sigma Tau Delta (English)
- Sigma Theta Tau International Honor Society of Nursing, Nu Chi Chapter (Nursing)

Dean's List

At the end of each semester the College of Arts and Sciences, College of Business Administration, College of Education, College of Fine Arts and Communication, and College of Nursing send letters of commendation to undergraduates completing at least nine hours of graded courses with grade point averages of 3.2 or above for the semester. In addition, each college and school, on an annual basis, sends letters of commendation to parttime undergraduate students who have earned a 3.2 grade point average or above in at least nine but not more than 17 graded hours during the fall and spring semesters combined.

Latin Honors

To graduate with Latin honors, students must have attended UMSL for at least 56 graded hours and must meet the following qualifications: cum laude 3.2 to 3.49 grade point average; magna cum laude 3.5 to 3.79 grade point average; summa cum laude 3.8 to 4.0 grade point average. If a student has the necessary GPA at UMSL to qualify for Latin honors but has fewer than 56 graded hours at UMSL, all credit hours and the associated grades earned within the UM System will be included when the total credit hours earned in the UM System are at least 80 graded hours. In determining one's eligibility for Latin honors, all graded hours will be considered, including the original grade in each grademodified course. No Latin honor higher than that which is consistent with the UMSL grade point average will be awarded. All honors must be recommended by the student's major department. (Effective April 2000.)

Office of National Scholarship Information

The mission of the Office of National Scholarship Information (ONSI) at the University of Missouri-St Louis is to provide campus wide access to merit-based scholarship information and opportunities. The most well-known of these merit-based scholarships include the Rhodes, British Marshall, Goldwater, Udall, Truman, and Fulbright, although numerous other prestigious, and often unique, opportunities exist for outstanding students. For further information, contact the Honors College at (314) 516-5243.

Assessment

The University of Missouri has been directed by the Board of Curators to assess the outcomes of your university education. To this end, two types of assessment are required: A test of general educational development given to a sample of incoming freshmen and graduating seniors who represent the university; and a test or project, specified by the major department, given to graduating seniors.

For its continuous quality improvements, the University also conducts periodic surveys of student engagement. As alumni, graduates are

encouraged to participate in assessment by completing questionnaires sent to them by the University or major department/college.

http://umsl.edu/admissions

Admission

Admission policies and procedures vary according to each applicant's educational goals and prior educational experiences. This section contains information for First Time Freshmen, Transfer Students, Returning UMSL Students, Visiting Students, Non-Degree Students, and UMSL Express for senior citizens. The Office of Admissions contains links to applications for all categories of applicants.

Admission for First-Time Freshmen

The University of Missouri System has a uniform policy for admission of freshman students to its four campuses. The procedure for regular admission from high school is based on high school class rank, performance on a standardized college aptitude test, and required high school units.

Application Procedures

Students applying as first-time freshmen (i.e., students applying directly from high school) need to submit the following:

- 1. A completed Undergraduate Application
 - Application information available from the Office of Admissions website, by phone 314-516-5451, email admissions@umsl.edu, or in person (351 Millennium Student Center).
- 2. Application Fee of \$35.00 (\$40.00 for international students) may be paid by:
 - · A check or money order made payable to UMSL
 - · A credit card during the online application procedure
 - Cash, check, or credit card by appearing in person at the office of the Registrar in 351 Millennium Student Center.
- 3. High School Transcript and Class Rank.
 - A transcript must be sent directly from your high school to the UMSL Office of Admissions. The transcript should indicate class rank (for schools that rank), all coursework, and, when available, date of graduation. College aptitude test scores are required and may be submitted via this transcript or directly from the testing agency
 - Students from Non-Ranking High Schools: Students applying for Undergraduate Admission who attend high schools that do not rank graduating seniors must present an ACT Composite score of 24 or higher or an SAT composite score (Critical Reading + Math) of 1090 or higher.
- 4. College Aptitude Test
 - Freshman admission requires that a test score be submitted from one of the following:
 - American College Testing Program (ACT):
 The ACT is administered at many locations across the country.
 Information is available from http://www.actstudent.org/, or your high school counselor
 - Scholastic Aptitude Test (SAT):
 The SAT is administered at many locations across the country.
 Testing information is available on the Collegeboard website.

When to Apply

Qualified applicants are admitted and notified by letter of their admission in the order that completed applications are received. Applications are accepted after September 1 for the next fall semester on the basis of six or more high school semesters.

Admission Requirements

Any high school graduate may be admitted with evidence indicating he or she meets the following requirements:

At least 17 units of credit (One unit=one year in class) as follows:

- English: Four units. Two units emphasizing composition or writing skills.
 One of the remaining two units may be in speech or debate
- Mathematics: Four units (Algebra 1 and higher)
- Science: Three units not including general science, one of the three units must be a laboratory course
- · Social Studies: Three units
- Fine Arts: One unit
- · Foreign Language: Two units of a single foreign language
- Math and foreign language units may be accepted from middle/junior high school.

In addition to the 17-unit requirement, each applicant will be evaluated on high school rank and test score (ACT or SAT). Applicants with a composite ACT score of 24 or SAT of 1090 will be admitted without regard to class rank. Class rank will be used to determine eligibility for admission when the applicant's ACT score is from 17 to 23 (SAT is 820 to 1080).

If the ACT Composite score is 17 to 23 or the total of SAT Critical Reading and Math scores is 820 to 1080, the applicant must meet the following high school class rank requirement to qualify for admission.

ACT	SAT Total Critial Reading Math	High School Class Percentile Rank
23	1050-1080	48
22	1020-1040	54
21	980-1010	62
20	940-970	69
19	900-930	78
18	860-890	86
17	820-850	94

Automatic Admission

Applicants who:

- Rank in the top 10% of the graduating class of a Missouri high school: and
- Complete the college preparatory curriculum, which includes at least 17 units of credit (four units each of English and math, three units of social studies, two units of a single foreign language, and one unit of fine art); and
- 3. Submit an ACT/SAT score.

WILL be eligible for automatic admission to any campus of the University of Missouri.

Applicants Who:

- Graduate from a Missouri high school that does not rank its graduates; but
- Have taken a college preparatory curriculum which includes at least 17 units of credit (four units each of English and math, three units of social studies, three units of science, two units of a single foreign language, and one unit of fine art); and
- 3. Achieve a 3.5 GPA on a 4.0 scale in these core courses; and
- 4. Submit an ACT/SAT score.

WILL be eligible for automatic admission to any campus of the University of Missouri.

Admission Appeals

Applicants who do not meet the minimum admissions criteria may still be admitted, depending on evidence of likely success and campus enrollment objectives.

Additional factors considered for admission may include:

- · Completion of a rigorous college preparatory curriculum
- Evidence of hardship or unusual circumstances that hindered academic performance
- · Significant work experience and/or family responsibilities
- · Improvement over time in high school academic record.

Students who fall short of the admission criteria have the option to submit a letter of appeal to address one or more of the factors above. The appeal letter should be addressed to the Admissions Appeals Committee, and additional letters of support are encouraged from teachers, counselors, or principals.

For additional information regarding admission requirements, contact the Office of Admissions at 314-516-5451 or by e-mail at admissions@umsl.edu.

Acceptance

Upon graduation, applicants must submit a final high school transcript indicating their class rank and graduation date (sent directly from the high school). First-time freshmen may be required to take a placement examination in mathematics.

Advanced Standing for Entering Freshmen

UMSL grants credit hours to entering freshmen who, through their performance on College Board Advanced Placement Tests and faculty-administered tests, demonstrate proficiency in certain college-level courses such as biology, chemistry, English, foreign languages, history, mathematics, political science, and physics. For further information and applications, contact College Board Placement AP Services by phone (888) 225-5427 or email apexams@info.collegeboard.org. The score-reporting institution code number for the University of Missouri-St. Louis is 6889. College Board will send the scores directly to the Director of Admissions.

Dual Credit

Accredited programs such as the Advanced Credit Program at the University of Missouri-St. Louis enable qualified high school juniors and seniors the opportunity to earn college credits while completing high school. Further information about the Advanced Credit Program may be obtained online or by calling 314-516-7005.

Dual High School/University Enrollment

Superior high school students may be admitted in a special student category to take one or more university courses on campus during their junior or senior years of high school or during the summers. Students must submit a dual enrollment application and a recommendation from the counselor or principal. Students are admitted on the evidence of academic excellence. Admission is limited and governed by available space, and students must meet the prerequisites for the course or courses selected. After reviewing the Dual Enrollment website, students or counselors may contact the College of Arts and Sciences at 314-516-5501 for more information.

College Level Examination Program

Applicants may earn advanced credit through the College Level Examination Program (CLEP). CLEP offers subject examinations for credit in specific areas. These examinations can be taken any time, provided the student has not taken a college credit course in the test area. Consultation with a UMSL advisor is highly recommended before taking an exam. CLEP tests are given in the Campus Testing Center by appointment only. Contact the Campus Testing Center at 314-516-6396, in person in 412 SSB, or through their website.

Credit for Military Service

Credit may be allowed for service training programs conducted by the various Armed Forces branches. The American Council of Education's recommendations in A Guide to the Evaluation of Educational Experiences in the Armed Services generally serve as a basis for granting such credit. To count toward a degree, the credit granted must be appropriate to the student's curriculum.

For more information, please visit umsl.edu/veterans/admissions/Credit For Military Service.

Probationary Admission

It may be possible for applicants who do not meet the regular admission standards to be admitted on a trial basis. Applicants who do not meet minimum admission requirements can submit a letter of appeal to request probationary admission. The Admission Appeals Committee reviews each letter of appeal and makes decisions on a case-by-case basis.

High School Equivalency Applicants

Individuals may seek admission on the basis of passing the General Education Development (GED) test with a minimum score of 2500 (for tests taken after January 1, 2002; minimum score of 250 required for tests taken prior to January 1, 2002).

In addition, the following must be submitted:

- A completed on-line Undergraduate Application
- A \$35 non-refundable Application Fee (\$40 for international students)
- ACT composite score of at least 24 or SAT Composite of at least 1090
- A high school transcript if ACT/SAT scores are included on the transcript.

Home-Schooled Students

UMSL welcomes home-schooled students. To be admitted for undergraduate admission, home-schooled applicants must present the following:

- A completed Undergraduate Application (available online)
- A \$35 non-refundable Application Fee (\$40 for international students)
- ACT Composite score of at least 24 or SAT Composite of at least 1090
- A copy of course of study or transcript reflecting all coursework and grades earned (if available), as well as a statement and date of graduation or completion.

If the home-schooled applicant has not completed all units required for graduation (completion), a test-score report of the General Education Development (GED) test with a minimum composite score of 2500 (for tests taken after January 1, 2002; minimum score of 250 for tests taken prior to January 1, 2002) must be presented.

Admission Information for Prospective Students With Prior College Credit

UMSL values transfer students, defined as a student transferring from another college or university with at least 24 earned semester hours of college-level work.

A transferring student who has completed fewer than 24 hours must apply under the procedures for admission to the freshman class with the additional requirement that they submit official transcripts from all college-level courses attempted at previous institutions that document at least a 2.0 overall grade point average (4.0 system).

Students transferring from other colleges and universities with at least 24 hours must submit the following information:

- · A completed online Undergraduate Application
- A \$35 non-refundable Application Fee (\$40 for international students)
- Official transcripts from all colleges/universities attended. Hand-carried credentials are not accepted.

All credentials submitted for admission become the property of the University.

Suspended and Dismissed Transfer Students

It is the practice of the Office of Admissions at the University of Missouri-St. Louis to uphold any suspension or dismissal decision offered to a student from another institution. Students suspended will be required to sit out for one year from the date of suspension before enrolling in UMSL. In addition, students must still meet the minimum admission requirements of a 2.0 gpa. A student may have to attend another institution in order to increase his/her GPA. Students who have been dismissed from another institution may not enroll at the University.

Students who have been dismissed from a specific college or school within another institution will need to show proof that they are eligible to enroll and/or are back in good standing at the previous institution in order to enroll with UMSL.

Additionally, students who are suspended/dismissed from another UM institution shall not be admissible until after one year from the date of the suspension/dismissal. Even though a student is removed from suspension, the student must still meet the minimum admission requirements of a 2.0 gpa.

Missouri State Transfer Agreement.

Although transfer students should be aware that requirements for degrees vary from institution to institution, some transferred credits may not apply to UMSL programs, UMSL has attempted to minimize the loss of credits by

adhering to the Missouri Coordinating Board of Higher Education (CBHE) Articulation Agreement. The agreement outlines statewide undergraduate general education requirements that satisfy the general requirements for students transferring into UMSL and students transferring out of UMSL to other public universities in the state.

UMSL requires mathematics and writing proficiency beyond the general requirements in the CBHE Statement. Please refer to the General Education requirements for details.

Transfer Credit

The articulation agreement among public institutions within the state of Missouri governs transfer of credit to UMSL from colleges and universities within the state of Missouri. These guidelines also apply to students transferring to UMSL from schools located outside Missouri. Advanced standing in the form of credit hours may be allowed for work satisfactorily completed in another public or private college or university of recognized standing located in the state of Missouri, as long as the work satisfies the requirements of the student's major.

The transcript at each institution includes all courses attempted. Grades of D or better earned in college-level work at an accredited or approved institution of higher education should receive full credit when transferred to UMSL. The University, however, will treat all grades on courses attempted on the same basis as that of a UMSL student. For example, if a program requires a UMSL student to repeat a specified course having earned a D grade, a transfer student will also be required to repeat the same course if it carries a D grade.

To maximize transfer credits from community colleges, UMSL has transfer guides and articulation agreements with area colleges. Should community college students have any question about the transferability of courses not in the articulation agreement, they should contact the appropriate Transfer Coordinator, preferably prior to taking a course.

Advanced Standing

Advanced standing includes credit by examination, examination that may or may not appear on a transfer student's transcripts, including College Board Advanced Placement (AP), the College-Level Examination Program (CLEP), International Baccalaureate (IB), and Defense Activity for Non-Traditional Education Support (DANTES). It also includes credit by portfolio review (Bachelor of Fine Arts only). These lower-division credits may not apply at the senior level. For examination credit, students should submit appropriate verification documents to the Office of Admissions before their first semester at UMSL. Students interested in the portfolio review should contact the Art and Art History Department. Early attention to these matters is essential to avoid unnecessary course work or repeats that can lead to loss of credit. If examinations are completed at a later date, verification documents should be submitted as soon as they are available.

Shortly after all official transcripts and other verifications are on file, students' previous academic records are evaluated to determine which courses are applicable, and students receive a written report of the results. Degree checks determining whether courses meet a specific degree requirement and whether courses are accepted as a part of the student's academic major are made in the office of the appropriate dean or advisor. Should there be any question concerning applicability of any courses, students should discuss this with that advisor.

Associate Degree Transfers from Community Colleges

A student admitted to the university and holding an associate degree applicable toward the baccalaureate degree will be accepted in junior standing. Students fulfilling the general education requirements outlined by the Missouri Coordinating Board of Higher Education and certified by the sending institution will have met the lower division general education requirements at UMSL. Students with AA degrees from Missouri institutions that include a CBHE approved general education core may transfer more than 64 credit hours for lower division courses. Any additional lower division course credits above 64 credit hours must be applicable to the baccalaureate degree or must be a prerequisite for an upper division course in the major. However, this does not exempt the student from meeting specialized lower-division degree requirements of specific departments. Courses completed in the associate degree program are evaluated for application to specific degree requirements by the same criteria used for transfer students from other colleges and universities.

Transfers Without an Associate Degree

Transfer applicants who do not have an associate degree will have their transcripts evaluated on a course-by-course basis and will be allowed to transfer a maximum of 60 credit hours from two-year institutions. Students who have fulfilled the general education requirements outlined by CBHE and certified by the sending institution will meet UMSL's general education requirements.

Transfers Within the University of Missouri System.

Students must be in good standing at another campus of the University of Missouri to be eligible for admission. Students not in good standing will not be admissible until after one year from the date of the suspension/dismissal. Students must meet the minimum admission requirements of a 2.0 gpa in order to be admitted.

Any course that leads to an undergraduate degree on any campus of the University of Missouri shall be accepted in transfer toward the same degree on any campus of the university offering that degree. Grades, including D and F grades, and honor points earned in such courses will also transfer and will be included in the cumulative grade point averages. Unresolved problems related to transferability of credit may be appealed to the office of the appropriate dean.

Students within the last 30 hours of graduation may take a limited number of courses at another campus in the UM system, provided the last 15 hours are taken at UMSL and the work is approved by their respective dean and department.

Metropolitan Rate

Through a special program, undergraduate and graduate students who live in the following Illinois counties will pay the equivalent to the instate rate: Adams, Bond, Calhoun, Christian, Clinton, Greene, Jackson, Jefferson, Jersey, Macoupin, Madison, Marion, Monroe, Montgomery, Morgan, Pike, Randolph, Sangamon, Scott, St. Clair, Washington, and Williamson.

Undergraduate and graduate applications from students who live in these select Illinois counties are reviewed for eligibility automatically. No additional application is required.

For more information visit http://www.umsl.edu/admissions/costs/metro.

Midwest Student Exchange

The Midwest Student Exchange Program is an initiative designed by the Midwestern Higher Education Commission to increase interstate educational opportunities for students in its member states. The program enables residents of Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, and Wisconsin to enroll in the institutions and specified programs located outside their home state at reduced tuition levels. Contact Admissions for more information.

Students from Other Countries

Prospective students living outside the United States and its possessions should contact the Office of International Student and Scholar Services (below) at least one year before the date of desired admission for information about application to the university. Applicants will be expected to supply official original secondary and college/university transcripts from all schools attended as well as other official original documents. International students must also pay a \$40 application fee. All students should make arrangements to take the Test of English as a Foreign Language (TOEFL) well in advance of their admission date.

Since 1998, all students in F-1 and J-1 status have been required to purchase an inexpensive insurance policy with coverage for illness and accidents, billed to the student's UMSL account. For details contact:

Office of International Student and Scholar Services

261 Student Millennium Center One University Boulevard St. Louis, MO 63121-4400 Phone: 314-516-5229

Phone: 314-516-5229 Email: iss@umsl.edu

Or visit the Office of International Students website

Returning UMSL Students

Students wishing to return to the University will be required to complete a returning student application and provide official transcripts from other colleges and universities attended since last enrolled as a UMSL student. Students returning must have a minimum 2.0 cumulative gpa.

The returning student application is available on-line in person at 351 Millennium Student Center, or by calling the Office of Admissions at 314-516-5451.

Admission for Students Not Seeking a UMSL Degree

Visiting Students

A visiting student is one who has completed at least one semester at another institution and plans to return to that college or university after attending UMSL. To qualify as a visiting student, applicants must be an actively enrolled student at another college or university. Visiting student applications are available on-line. No application fee required. Transcripts are not required for visiting students. At the end of the session, students must request that their grades be reported by transcript to their respective schools. Financial aid is not available for visiting students.

Non-Degree-Seeking Students

A non-degree-seeking student is someone interested in taking classes but not wanting a degree from UMSL. Often these are students who have degrees but want to take additional undergraduate classes for personal or professional development. To become a non-degree-seeking student,

applicants complete the application for admission and mark "non-degree-seeking." No application fee is required. No transcripts are required; however, the admission applies only for that particular semester. To attend for another semester, the student must reapply.

Students wishing to become degree-seeking must meet the minimum transfer student requirements of 24 transferable, college-credit hours at a 2.0 gpa. Students may not switch from non-degree to degree-seeking after the first four weeks of the semester.

The non-degree application is available on-line, in person at 351 Millennium Student Center, or by calling 314-516-5451. Financial aid is not available for non-degree seeking students.

UMSL Express

UMSL Express provides Missouri's senior citizens (65 and older) easy access to undergraduate courses without limit on an audit (not for credit) space-available basis. Graduate courses are not available through this program. Students are subject to: non-refundable \$25 registration fee, a parking fee, and course-related fees. Former UMSL Express students who reapply for the program must again pay the registration fee. UMSL Express applicants may obtain a registration form on-line, in person at 351 Millennium Student Center, or by calling 314-516-5451. Students should complete and return the form with proof of age to the Office of the Registrar on the day before classes are scheduled to begin.

Students must successfully complete the general requirements of the University, the school or college in which they are enrolled, and the specific requirements of their area of specialization. Described below are the general education requirements for all degrees. Students may consult their degree audit (DARS) report for recommended general education courses in their major.

At the University of Missouri-St. Louis, General Education affords both freshmen and transfer students the opportunity to develop and apply intellectual tools and to acquire a breadth of knowledge necessary in our challenging, technological, and diverse world. This curriculum also challenges students to investigate various disciplines as potential majors, and it prepares them for success in major fields of study. The program complies fully with the Missouri Coordinating Board of Higher Education Guidelines on Transfer and Articulation (June 2000).

General Education Requirements Application of Policy to Freshmen

All students in Missouri public universities must complete the requirements of a General Education Plan totaling 42 credit hours in order to earn a baccalaureate degree.

Application of Policy to Transfer Students

Transfer policies describe which courses may apply to UMSL's General Education requirements. In general, students who transfer to UMSL with an Associate of Arts (AA) degree from an accredited Missouri institution are considered to have completed all general education requirements. Additionally, UMSL has a Junior-Level Writing requirement and Mathematics Proficiency (explained below) beyond the general education requirement. Transfer students without an AA degree from Missouri may transfer a CBHE-approved 42-hour block of General Education courses, in accordance with the CBHE Transfer and Articulation agreement. However, those students transferring with fewer than 42 hours

or from a non-participating institution will have their transcripts evaluated on a course-by-course basis.

Credit associated with military science and developmental/remedial coursework are not considered transferable to UMSL's General Education requirements.

Application of Policy to Students Who Started Prior to Fall 2002

Students who earned 24 or more semester hours of credit* at any accredited post-secondary institutions(s) before the start of the fall 2002 semester may meet the general education requirements stipulated in the UMSL 2001-2002 Bulletin or elect to complete the current General Education Plan described below.

*Only credit that is transferable to UMSL is applicable

Skill Goals

Communicating Skills (minimum 6 credit hours) [C] Managing Information Skills (minimum 3 credit hours) [MI] Valuing Skills (minimum 3 credit hours) [V]

Knowledge Goals

Social and Behavioral Sciences Knowledge Goal (minimum 9 credit hours) [SS]

Humanities and Fine Arts Knowledge Goal (minimum 9 credit hours) [H] Mathematics and Life/Natural Sciences (minimum 12 credit hours) [MS]

Students may take only those courses listed below for the 42-hour General Education block. Many courses satisfy more than one goal, are designated as such, and may be counted for all of the goals listed for each specific course. Select courses that meet only a skill goal(s) without a knowledge goals have been marked with an asterisk and it should be noted that those courses concentrate on the designated skill comprehensively.

Once students have met the required number of courses or hours under each goal, they have the opportunity to take any of the certified General Education courses listed under about goal to achieve the 42-hours. The university encourages students to select General Education courses to meet their individual needs and interests. Students may not take any upper-level courses or any lower-level courses that do not appear on the list of certified General Education courses to complete the 42-hour block.

General Education at the University of Missouri-St. Louis offers students an exciting and challenging curriculum that develops the skills and knowledge necessary to succeed in today's changing world. The following information outlines each of the six goals and the courses that meet the competencies students must achieve to accomplish the designated skills and knowledge goals.

General Education Goals and Courses

PLEASE NOTE:

- * Course addresses skill goal(s) and no knowledge goals. The course covers the skill goal comprehensively and is suggested for those students who seek an in-depth coverage of that skill.
- **Course will count for Cultural Diversity Graduation Requirement.
- ***Course will count for State Government/History Requirement (Honors students should check with Honors College each semester for list of Gen. Ed. Courses that meets this requirement).

Goals

Skill Goals:

- 1. Communicating (minimum 6 credit hours)
- 2. Managing Information (minimum 3 credit hours)
- 3. Valuing (minimum 3 credit hours)

Knowledge Goals

- 1. Social and Behavioral Sciences (minimum 9 credit hours)
- 2. Humanities and Fine Arts (minimum 9 credit hours)
- 3. Mathematics and Life/Natural Sciences (minimum 12 credit hours)

Goal #1 Communicating Skills

The Communicating Skills Goal develops students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness (CBHE General Education, June 2000).

Students must complete a minimum of six credit hours in the Communicating Skills area including a freshman composition course (ENGL 1100 (p. 21), ENGL 1110 (p. 21), HONORS 1100 (p. 21), or HIST 1111 (p. 21)) and one other course taken from the following list:

21)

21)

21)

21)

COMM 1040 (p.

COMM 1050 (p.

ENGL 1120 (p.

ENGL 1170 (p.

^{***}satisfies state government requirement

ENGL 1100 (p. 21)	First-Year Writing *	3
or ENGL 1110 (p. 21)	First-Year Writing For International Students	
or HONORS 1100 (p. 21)	Freshman Composition	
or HIST 1111 (p. 21)	Reacting to the Past	
Select a minimum	of one course:	
ANTHRO 1163 (p. 21)	Disagreement, Difference, Diversity	6
ANTHRO 2100 (p. 21)	Languages and World View	3
ART HS 1175 (p. 21)	Arts And Ideas	3
CHEM 2223 (p. 21)	Quantitative Analysis	3
CHEM 2633 (p. 21)	Organic Chemistry Laboratory	2
COMM 1030 (p.	Interpersonal Communication I	3

Introduction To Public Speaking

American Literary Masterpieces

Introduction to Literature

Introduction To Mass Communication

3

3

3

3

ENGL 1175 (p. 21)	Arts And Ideas	3
ENGL 1950 (p. 21)	Topics In Literature	3
ENGL 2030 (p. 21)	Beginning Poetry Writing Workshop	3
ENGL 2040 (p. 21)	Beginning Fiction Writing	3
ENGL 2120 (p. 21)	Topics In Writing	3
ENGL 2240 (p. 21)	Literature Of The Old Testament	3
ENGL 2250 (p. 21)	Literature Of The New Testament	3
ENGL 2310 (p. 21)	English Literature Before 1790	3
ENGL 2320 (p. 21)	English Literature After 1790	3
ENGL 2330 (p. 21)	Introduction To Poetry	3
ENGL 2710 (p. 21)	American Literature Before 1865	3
ENGL 2720 (p. 21)	American Literature After 1865	3
ENGL 2810 (p. 21)	Traditional Grammar *	3
FGN LANG 2100 (p. 21)	Languages and World View	3
FRENCH 2170 (p. 21)	Intermediate French Language And Culture	3
FRENCH 2180 (p. 21)	Readings In French	3
GERMAN 2170 (p. 21)	Intermediate Practice in Speaking and Writing German	3
GERMAN 2180 (p. 21)	Intermediate Readings In German	3
HIST 1001 (p. 21)	American Civilization To 1865 ***	3
HIST 1002 (p. 21)	American Civilization 1865 To Present	3
HIST 1004 (p. 21)	The History Of Women In The United States	3
HIST 1030 (p. 21)	The Ancient Empires of the Mediterranean	3
HIST 1031 (p. 21)	Topics European Civilization: Emergence Of Western Europe To 1715	3
HIST 1032 (p. 21)	Topics In European Civilization: 1715 To The Present	3
HIST 1051 (p. 21)	Latin American Civilization **	3
HIST 1061 (p. 21)	African Civilization: From The Beginning of Humanity to The End of The Slave Trade	3
HIST 1062 (p. 21)	African Civilization II: From Colonies to Nations	3
HIST 1075 (p. 21)	World History to 1500	3

^{*}comprehensive coverage of skill goal

^{**} satisfies cultural diversity requirement

HIST 1076 (p. 21)	World History Since 1500	3
HIST 1111 (p. 21)	Reacting to the Past	4
HIST 1175 (p. 21)	Arts And Ideas	3
HIST 1776 (p. 21)	History of American Leadership	3
HIST 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
HIST 2116 (p. 21)	History of Greece and The Balkans	3
HONORS 1110 (p. 21)	Western Traditions: Humanities	3
HONORS 1130 (p. 21)	Western Traditions: Social And Behavioral Sciences	3
HONORS 1330 (p. 21)	Non-Western Traditions Series-Social Sciences **	3
HONORS 2010 (p. 21)	Inquiries In The Humanities	3
HONORS 2020 (p. 21)	Inquiries In The Fine And Performing Arts	3
HONORS 2030 (p. 21)	Inquiries In The Social And Behavioral Sciences	3
HONORS 2050 (p. 21)	Inquiries In The Natural Sciences	1-3
INTDSC 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
JAPAN 2102 (p. 21)	Intermediate Japanese II	5
MATH 1021 (p. 21)	Choice and Chance	3
MEDIA ST 1050 (p. 21)	Introduction To Media Studies	3
M H L T 1175 (p. 21)	Arts And Ideas	3
PHIL 1021 (p. 21)	Choice and Chance	3
PHIL 1163 (p. 21)	Disagreement, Difference, Diversity	6
PHIL 1175 (p. 21)	Arts And Ideas	3
PHIL 2280 (p. 21)	Minds, Brains, And Machines	3
PHIL 2282 (p. 21)	Philosophy of Science in Historical Perspecitve	3
SOC 2200 (p. 21)	Languages and World View	3
SPANISH 2171 (p. 21)	Spanish Conversation And Pronunciation	3
SPANISH 2172 (p. 21)	Spanish Composition	3
SPANISH 2180 (p. 21)	Readings In Spanish **	3
TH DAN 1175 (p. 21)	Arts And Ideas	3

TH DAN 1210 (p. 21)	Fundamentals Of Acting	3
TH DAN 1800 (p. 21)	Introduction To Theatre	3
TH DAN 1850 (p. 21)	Introduction To Non-Western Theatre **	3
TH DAN 2020 (p. 21)	Acting for the Camera	3
TH DAN 2105 (p. 21)	Script Analysis	3
TH DAN 2810 (p. 21)	History Of World Theatre And Drama Through The Restoration	3
TH DAN 2820 (p. 21)	History Of World Theatre & Drama From 18Th C To Contemporary Time	3
TH DAN 2840 (p. 21)	History Of Dance To The 19Th Century	3

Goal #2 Managing Information Skills

The Managing Information Skills Goal develops students' abilities to locate, organize, store, retrieve, evaluate, synthesize and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions (CBHE General Education, June 2000).

Students must complete a minimum of three credit hours in the Managing Information Skills area taken from the following list:

^{***}satisfies state government requirement

ANTHRO 1005 (p. 21)	Introduction To Biological Anthropology	4
ANTHRO 1006 (p. 21)	Introduction To Non-Human Primates	3
ANTHRO 1019 (p. 21)	Introduction To Archaeology	3
ANTHRO 1033 (p. 21)	World Archaeology	3
ANTHRO 2105 (p. 21)	Human Variation	3
ART HS 1104 (p. 21)	Indigenous Arts Of North America **	3
ART HS 2212 (p. 21)	Greek Art And Archaeology	3
ART HS 2213 (p. 21)	Roman Art & Archaeology	3
ART HS 2225 (p. 21)	Medieval Art	3
ART HS 2237 (p. 21)	Northern European Renaissance Art	3
ART HS 2245 (p. 21)	Baroque Art And Architecture	3
ART HS 2250 (p. 21)	Nineteenth Century European Art	3
ART HS 2265 (p. 21)	History Of Photography	3
ART HS 2270 (p. 21)	American Art To 1876	3

^{*}comprehensive coverage of the skill goal

^{**}satisfies cultural diversity requirement

ART HS 2272 (p.	American Art Since 1876	3	ECON 2800 (p.	History Of American Economic Development	3
21)			21)		
ART HS 2279 (p. 21)	American Architecture	3	ENGL 1100 (p. 21)	First-Year Writing	3
ART HS 2281 (p. 21)	Art Since 1960	3	ENGL 1110 (p. 21)	First-Year Writing For International Students	3
ASTRON 1001 (p. 21)	Cosmic Evolution Introductory Astronomy	4	FINANCE 1590 (p. 21)	Personal Finance For Nonbusiness Majors	3
ASTRON 1001A (p. 21)	Cosmic Evolution/Introduction Astronomy	3	GEOG 1001 (p. 21)	Introduction To Geography	3
ATM SCI 1001 (p 21)	. Elementary Meteorology	4	GEOG 1002 (p. 21)	World Regions	3
ATM SCI 1001A (p. 21)	Elementary Meteorology	3	GEOL 1001 (p. 21)	General Geology	4
BIOL 1202 (p. 21)	Environmental Biology	3	GEOL 1001A (p. 21)	General Geology	4
BIOL 1821 (p. 21)	Introductory Biology: Organisms And The Environment	5	GEOL 1002 (p. 21)	Historical Geology	4
BIOL 1831 (p. 21)	Introductory Biology: From Molecules To Organisms	5	GEOL 1002A (p. 21)	Historical Geology Lecture	3
BIOL 1999 (p. 21)	Evolution for Everyone	3	HIST 1111 (p. 21)	Reacting to the Past	4
BUS AD 2900 (p. 21)	Legal Environment Of Business	3	HIST 2800 (p. 21)	History Of American Economic Development	3
CHEM 1011 (p. 21)	Chemistry In The Environment And Every Day Living	3	HONORS 1200 (p. 21)	Freshman Symposium: Cultural Traditions I	3
CHEM 1052 (p. 21)	Chemistry For The Health Professions	4	HONORS 1310 (p. 21)	Non-Western Traditions Series Humanities	3
CHEM 1062 (p. 21)	Organic & Biochem For The Health Professions	2	HONORS 2051 (p. 21)	Inquiries in the Sciences: Laboratory or Field Work	1
CHEM 1081 (p. 21)	Introductory Chemistry I-A	3	INFSYS 1800 (p. 21)	Computers And Information Systems	3
CHEM 1091 (p. 21)	Introductory Chemistry IB	3	MEDIA ST 2271 (p. 21)	History Of American Film	3
CHEM 1111 (p. 21)	Introductory Chemistry I	5	MEDIA ST 2272 (p. 21)	Contemporary Cinema	3
CHEM 1121 (p. 21)	Introductory Chemistry II	5	PHYSICS 1011 (p. 21)	Basic Physics 1	4
CHEM 2223 (p. 21)	Quantitative Analysis	3	PHYSICS 1012 (p. 21)	Basic Physics II	4
CHEM 2622 (p. 21)	Organic Chemistry II	3	PHYSICS 2111 (p. 21)	Physics: Mechanics And Heat	5
CHEM 2633 (p. 21)	Organic Chemistry Laboratory	2	PHYSICS 2112 (p. 21)	Physics: Electricity, Magnetism, And Optics	5
CHEM 3412 (p. 21)	Basic Inorganic Chemistry	2	POL SCI 1450 (p. 21)	Introduction To Labor Studies	3
CMP SCI 1010 (p. 21)	Introduction To Computers And The Internet	3	POL SCI 1500 (p. 21)	Introduction To Comparative Politics	3
CMP SCI 1011 (p. 21)	Introduction to the Internet and World Wide Web	3	POL SCI 1550 (p. 21)	Women And Politics In The Developing World	3
CMP SCI 1012 (p. 21)	Learning to Program Using Virtual Worlds	3	POL SCI 1820 (p. 21)	Global Issues	3
CRIMIN 1110 (p. 21)	Theories Of Crime	3	SOC 1999 (p. 21)	The City	3
ECON 2410 (p. 21)	Work, Families, And Public Policy	3	SOC 2201 (p. 21)	Deviance and Society	3

TH DAN 2820 (p. History Of World Theatre & Drama From 18Th C To 3 21) Contemporary Time

TH DAN 2840 (p. History Of Dance To The 19Th Century 3 21)

Goal #3 Valuing Skill

The Valuing Skills Goal develops students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop (CBHE General Education, June 2000).

Students must complete a minimum of three credit hours in the Valuing Skills area taken from the following list:

^{***}satisfies state government requirement

ANTHRO 1011 (p. 21)	Introduction To Cultural Anthropology **	3
ANTHRO 1021 (p. 21)	The Body In Culture	3
ANTHRO 1025 (p. 21)	World Cultures	3
ANTHRO 1037 (p. 21)	The Wonders of Greece: Introduction to Greek History and Culture	3
ANTHRO 1041 (p. 21)	Sex And Gender Across Cultures	3
ANTHRO 1052 (p. 21)	The Olympic Games: Ideals And Reality	3
ANTHRO 1163 (p. 21)	Disagreement, Difference, Diversity	6
ANTHRO 2117 (p. 21)	Greek History And Culture **	3
ANTHRO 2120 (p. 21)	Native Peoples Of North America	3
ART HS 1101 (p. 21)	Ideas in Art History	3
ART HS 1102 (p. 21)	Art Of Eqypt and the Ancient Near and Middle East	3
ART HS 1104 (p. 21)	Indigenous Arts Of North America **	3
ART HS 2212 (p. 21)	Greek Art And Archaeology	3
ART HS 2213 (p. 21)	Roman Art & Archaeology	3
ART HS 2225 (p. 21)	Medieval Art	3
ART HS 2237 (p. 21)	Northern European Renaissance Art	3
ART HS 2245 (p. 21)	Baroque Art And Architecture	3
ART HS 2248 (p. 21)	Eighteenth Century European Art	3
ART HS 2250 (p. 21)	Nineteenth Century European Art	3

ART HS 2265 (p. 21)	History Of Photography	3
ART HS 2270 (p. 21)	American Art To 1876	3
ART HS 2272 (p. 21)	American Art Since 1876	3
ART HS 2279 (p. 21)	American Architecture	3
ART HS 2281 (p. 21)	Art Since 1960	3
BIOL 1202 (p. 21)	Environmental Biology	3
BUS AD 1900 (p. 21)	Introduction to Personal Law	3
BUS AD 2900 (p. 21)	Legal Environment Of Business	3
CHINESE 2191 (p. 21)	Special Topics in Chinese Culture	3
CRIMIN 1110 (p. 21)	Theories Of Crime	3
CRIMIN 1120 (p. 21)	Criminal Law	3
CRIMIN 1150 (p. 21)	Violence In America	3
CRIMIN 1200 (p. 21)	Foundations Of Law: An Introduction To Legal Studies	3
CRIMIN 2130 (p. 21)	Criminal Justice Policy	3
CRIMIN 2251 (p. 21)	Youth Gangs	3
CRIMIN 2260 (p. 21)	Corrections	3
ECON 1000 (p. 21)	Introduction To The American Economy	3
ECON 1001 (p. 21)	Principles Of Microeconomics	3
ECON 2610 (p. 21)	The Economics Of Professional Sports	3
ENGL 1120 (p. 21)	Introduction to Literature	3
ENGL 2280 (p. 21)	Contemporary World Literature	3
ENGL 2340 (p. 21)	Introduction To Drama	3
FINANCE 1590 (p. 21)	Personal Finance For Nonbusiness Majors	3
GS 2102 (p. 21)	Introduction To Gender Studies	3
GS 2230 (p. 21)	Psychology Of Gender	3
GS 2253 (p. 21)	Philosophy And Feminism	3
GEOG 2001 (p. 21)	Cultural Geography	3
GERON 2280 (p. 21)	Psychology Of Death And Dying	3

^{**}satisfies cultural diversity requirement

GS 2224 (p. 21)	Marriage And The Family	3	PHIL 1030 (p. 21)	Present Moral Problems	3
HIST 1003 (p. 21)	African-American History ***	3	PHIL 1090 (p. 21)	Philosophy Looks at the Arts	3
HIST 1776 (p. 21)	History of American Leadership	3	PHIL 1091 (p. 21)	Great Philosophers	3
HIST 2102 (p. 21)	Introduction To Gender Studies	3	PHIL 1110 (p. 21)	Western Philosophy I: Antiquity To The Renaissance	3
HIST 2116 (p. 21)	History of Greece and The Balkans	3	PHIL 1111 (p. 21)	Western Philosophy II: Descartes To The Present	3
HIST 2117 (p. 21)	Greek History And Culture	3	PHIL 1120 (p. 21)	Asian Philosophy **	3
HONORS 1201 (p. 21)	Freshman Symposium: Cultural Traditions II	3	PHIL 1125 (p. 21)	Islamic Philosophy **	3
HONORS 1230 (p. 21)	American Traditions: Social And Behavioral Sciences	3	PHIL 1130 (p. 21)	Approaches To Ethics	3
HONORS 1310 (p. 21)	Non-Western Traditions Series Humanities	3	PHIL 1150 (p. 21)	Introduction to Philosophy	3
HONORS 1330 (p. 21)	Non-Western Traditions Series-Social Sciences	3	PHIL 1151 (p. 21)	Love 101	3
HONORS 2310 (p. 21)	Cultural Diversity In The Humanities **	3	PHIL 1160 (p. 21)	Critical Thinking	3
HONORS 2330 (p. 21)	Cultural Diversity In The Social Sciences ***	3	PHIL 1180 (p. 21)	Science vs. God	3
JAPAN 2191 (p. 21)	Special Topics in Japanese Culture	3	PHIL 1163 (p. 21)	Disagreement, Difference, Diversity	6
MEDIA ST 1060 (p. 21)	Introduction to World Cinema	3	PHIL 1178 (p. 21)	Superhuman Mind	3
MEDIA ST 1110 (p. 21)	Introduction To Radio And Television Broadcasting	3	PHIL 1185 (p. 21)	Philosophy Of Religion	3
M H L T 1001 (p. 21)	Introduction To Music	3	PHIL 2251 (p. 21)	Sexual Ethics	3
M H L T 1010 (p. 21)	History Of Western Music I	3	PHIL 2252 (p. 21)	Philosophical Foundations Of Criminal Justice	3
M H L T 1020 (p. 21)	History Of Western Music II	3	PHIL 2253 (p. 21)	Philosophy And Feminism	3
M H L T 1080 (p. 21)	Introduction To Irish Traditional Music	3	PHIL 2254 (p. 21)	Business Ethics	3
M H L T 1090 (p. 21)	Non-Western Music I **	3	PHIL 2255 (p. 21)	Environmental Ethics	3
M H L T 1110 (p. 21)	Introduction To Irish Traditional Music In North America	3	PHIL 2256 (p. 21)	Bioethics	3
M H L T 1130 (p. 21)	Introduction to Music Theatre	3	PHIL 2257 (p. 21)	Happiness and the Meaning of Life	3
M H L T 1140 (p. 21)	Popular Music in America	3	PHIL 2258 (p. 21)	Medicine, Values, And Society	3
M H L T 1150 (p. 21)	Drumming Cultures of the World	3	PHIL 2259 (p. 21)	Engineering Ethics	3
M H L T 1160 (p. 21)	Musical Journey through Latin America	3	PHIL 2276 (p. 21)	Philosophy of Film	3
M H L T 1170 (p. 21)	Musical Journey through the Far East	3	PHIL 2280 (p. 21)	Minds, Brains, And Machines	3
M H L T 1180 (p. 21)	Musical Journal Through Africa	3	PHIL 2283 (p. 21)	Markets & Morals	3
M H L T 1190 (p. 21)	Musical Journey of the Native North American	3	POL SCI 1100 (p. 21)	Introduction To American Politics ***	3

POL SCI 1200 (p. 21)	Foundations Of Law: An Introduction To Legal Studies	3
POL SCI 1500 (p. 21)	Introduction To Comparative Politics	3
POL SCI 1550 (p. 21)	Women And Politics In The Developing World	3
POL SCI 1800 (p. 21)	World Politics	3
PSYCH 2205 (p. 21)	Human Sexuality: Psychological Perspectives	3
PSYCH 2230 (p. 21)	Psychology Of Gender	3
PSYCH 2280 (p. 21)	Psychology Of Death And Dying	3
PSYCH 2285 (p. 21)	American Culture and Minority Mental Health	3
SOC WK 2000 (p. 21)	Social Work And Social Issues	3
SOC WK 2102 (p. 21)	Introduction To Gender Studies	3
SOC WK 2200 (p. 21)	Social Welfare As A Social Institution	3
SOC 1010 (p. 21)	Introduction To Sociology	3
SOC 1040 (p. 21)	Social Problems	3
SOC 1061 (p. 21)	Religion in Contemporary Society	3
SOC 1241 (p. 21)	Globalization and Social Change	3
SOC 1999 (p. 21)	The City	3
SOC 2102 (p. 21)	Introduction To Gender Studies	3
SOC 2103 (p. 21)	Gender Roles In Society	3
SOC 2201 (p. 21)	Deviance and Society	3
SOC 2202 (p. 21)	Urban Sociology	3
SOC 2224 (p. 21)	Marriage And The Family	3
SOC 2280 (p. 21)	Society And Technology	3
SOC 2316 (p. 21)	Power, Ideology And Social Movements	3
SOC 2338 (p. 21)	Health & Society	3
THRY COM 1301 (p. 21)	Theory Of Music I	3
THRY COM 1311 (p. 21)	Theory Of Music II	3
THRY COM 2301 (p. 21)	Theory Of Music III	3
THRY COM 2311 (p. 21)	Theory Of Music IV	3

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Goal #4 Social and Behavioral Sciences Knowledge

The Social and Behavioral Sciences Knowledge Goal develops students' understanding of themselves and the world around them through the study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others (CBHE General Education, June 2000).

Students must complete a minimum of nine credit hours in the Social and Behavioral Sciences Knowledge area taken from the following list:

^{***}satisfies government requirement

ANTHRO 1005 (p. 21)	Introduction To Biological Anthropology	4
ANTHRO 1006 (p. 21)	Introduction To Non-Human Primates	3
ANTHRO 1011 (p. 21)	Introduction To Cultural Anthropology **	3
ANTHRO 1019 (p. 21)	Introduction To Archaeology	3
ANTHRO 1021 (p. 21)	The Body In Culture	3
ANTHRO 1025 (p. 21)	World Cultures **	3
ANTHRO 1033 (p. 21)	World Archaeology **	3
ANTHRO 1037 (p. 21)	The Wonders of Greece: Introduction to Greek History and Culture	3
ANTHRO 1041 (p. 21)	Sex And Gender Across Cultures	3
ANTHRO 1052 (p. 21)	The Olympic Games: Ideals And Reality	3
ANTHRO 1163 (p. 21)	Disagreement, Difference, Diversity	6
ANTHRO 2105 (p. 21)	Human Variation **	3
ANTHRO 2117 (p. 21)	Greek History And Culture	3
ANTHRO 2120 (p. 21)	Native Peoples Of North America	3
ANTHRO 2121 (p. 21)	Native American Spirituality	3
BUS AD 1900 (p. 21)	Introduction to Personal Law	3
COMM 1050 (p. 21)	Introduction To Mass Communication	3
CRIMIN 1100 (p. 21)	Introduction To Criminology And Criminal Justice	3
CRIMIN 1110 (p. 21)	Theories Of Crime	3

^{**}satisfies cultural diversity requirement

CRIMIN 1120 (p. 21)	Criminal Law	3
CRIMIN 1150 (p. 21)	Violence In America	3
CRIMIN 2130 (p. 21)	Criminal Justice Policy	3
CRIMIN 2251 (p. 21)	Youth Gangs	3
CRIMIN 2260 (p. 21)	Corrections	3
ECON 1000 (p. 21)	Introduction To The American Economy	3
ECON 1001 (p. 21)	Principles Of Microeconomics	3
ECON 1002 (p. 21)	Principles Of Macroeconomics	3
ECON 1500 (p. 21)	Entertainment Economics: The Movie Industry	3
ECON 2410 (p. 21)	Work, Families, And Public Policy	3
ECON 2610 (p. 21)	The Economics Of Professional Sports	3
ECON 2800 (p. 21)	History Of American Economic Development	3
GS 2230 (p. 21)	Psychology Of Gender	3
GEOG 1001 (p. 21)	Introduction To Geography	3
GEOG 1002 (p. 21)	World Regions	3
GEOG 2001 (p. 21)	Cultural Geography	3
GERON 2280 (p. 21)	Psychology Of Death And Dying	3
GS 2102 (p. 21)	Introduction To Gender Studies	3
GS 2224 (p. 21)	Marriage And The Family	3
HIST 1001 (p. 21)	American Civilization To 1865 ***	3
HIST 1002 (p. 21)	American Civilization 1865 To Present ***	3
HIST 1003 (p. 21)	African-American History ***	3
HIST 1004 (p. 21)	The History Of Women In The United States ***	3
HIST 1030 (p. 21)	The Ancient Empires of the Mediterranean	3
HIST 1031 (p. 21)	Topics European Civilization: Emergence Of Western Europe To 1715	3
HIST 1032 (p. 21)	Topics In European Civilization: 1715 To The Present	3
HIST 1041 (p. 21)	East Asian Civilization **	3
HIST 1042 (p. 21)	East Asian Civilization **	3

HIST 1051 (p. 21)	Latin American Civilization **	3
HIST 1052 (p. 21)	Mexican Civilization **	3
HIST 1061 (p. 21)	African Civilization: From The Beginning of Humanity to The End of The Slave Trade	3
HIST 1062 (p. 21)	African Civilization II: From Colonies to Nations **	3
HIST 1075 (p. 21)	World History to 1500	3
HIST 1076 (p. 21)	World History Since 1500	3
HIST 1175 (p. 21)	Arts And Ideas	3
HIST 1776 (p. 21)	History of American Leadership	3
HIST 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
HIST 2102 (p. 21)	Introduction To Gender Studies	3
HIST 2117 (p. 21)	Greek History And Culture	3
HIST 2800 (p. 21)	History Of American Economic Development	3
HONORS 1130 (p. 21)	Western Traditions: Social And Behavioral Sciences	3
HONORS 1230 (p. 21)	American Traditions: Social And Behavioral	3
HONORS 1330 (p. 21)	Non-Western Traditions Series-Social Sciences	3
HONORS 2030 (p. 21)	Inquiries In The Social And Behavioral Sciences	3
HONORS 2330 (p. 21)	Cultural Diversity In The Social Sciences	3
,	Big History: From the Big Bang to the Blackberry	3-6
MEDIA ST 1050 (p. 21)	Introduction To Media Studies	3
PHIL 1163 (p. 21)	Disagreement, Difference, Diversity	6
PHIL 1180 (p. 21)	Science vs. God	3
PHIL 2251 (p. 21)	Sexual Ethics	3
POL SCI 1100 (p. 21)	Introduction To American Politics ***	3
POL SCI 1450 (p. 21)	Introduction To Labor Studies	3
POL SCI 1500 (p. 21)	Introduction To Comparative Politics	3
	Women And Politics In The Developing World	3
POL SCI 1800 (p. 21)	World Politics	3
POL SCI 1820 (p. 21)	Global Issues	3

PSYCH 1003 (p. 21)	General Psychology	3
PSYCH 1268 (p. 21)	Human Growth And Development	3
PSYCH 2205 (p. 21)	Human Sexuality: Psychological Perspectives	3
PSYCH 2230 (p. 21)	Psychology Of Gender	3
PSYCH 2280 (p. 21)	Psychology Of Death And Dying	3
PSYCH 2285 (p. 21)	American Culture and Minority Mental Health	3
SOC WK 2000 (p. 21)	Social Work And Social Issues	3
SOC WK 2102 (p. 21)	Introduction To Gender Studies	3
SOC WK 2200 (p. 21)	Social Welfare As A Social Institution	3
SOC 1010 (p. 21)	Introduction To Sociology	3
SOC 1040 (p. 21)	Social Problems	3
SOC 1061 (p. 21)	Religion in Contemporary Society	3
SOC 1241 (p. 21)	Globalization and Social Change	3
SOC 2102 (p. 21)	Introduction To Gender Studies	3
SOC 2103 (p. 21)	Gender Roles In Society	3
SOC 2201 (p. 21)	Deviance and Society	3
SOC 2202 (p. 21)	Urban Sociology	3
SOC 2224 (p. 21)	Marriage And The Family	3
SOC 2280 (p. 21)	Society And Technology	3
SOC 2316 (p. 21)	Power, Ideology And Social Movements	3
SOC 2338 (p. 21)	Health & Society	3

Goal #5 Humanities and Fine Arts Knowledge

The Humanities and Fine Arts Knowledge Goal develops the students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge (CBHE General Education, June 2000).

Students must complete a minimum or nine credit hours from the Humanities and Fine Arts Knowledge area taken from the following list:

ANTHRO 1163 (p. 21)	Disagreement, Difference, Diversity	6
ANTHRO 2100 (p. 21)	Languages and World View	3
ART HS 1100 (p. 21)	Introduction To Western Art	3
ART HS 1101 (p. 21)	Ideas in Art History	3
ART HS 1102 (p. 21)	Art Of Eqypt and the Ancient Near and Middle East	3
ART HS 1104 (p. 21)	Indigenous Arts Of North America **	3
ART HS 1105 (p. 21)	Introduction To The Arts Of Africa	3
ART HS 1108 (p. 21)	Introduction To The Arts Of Asia	3
ART HS 1175 (p. 21)	Arts And Ideas	3
ART HS 2211 (p. 21)	Art And Archaeology Of The Ancient World	3
ART HS 2212 (p. 21)	Greek Art And Archaeology	3
ART HS 2213 (p. 21)	Roman Art & Archaeology	3
ART HS 2225 (p. 21)	Medieval Art **	3
ART HS 2235 (p. 21)	Italian And Northern European Renaissance Art	3
ART HS 2237 (p. 21)	Northern European Renaissance Art	3
ART HS 2240 (p. 21)	French Art And Architecture 1400-1715	3
ART HS 2245 (p. 21)	Baroque Art And Architecture	3
ART HS 2248 (p. 21)	Eighteenth Century European Art	3
ART HS 2250 (p. 21)	Nineteenth Century European Art	3
ART HS 2255 (p. 21)	Modern Art	3
ART HS 2265 (p. 21)	History Of Photography	3
ART HS 2270 (p. 21)	American Art To 1876	3
ART HS 2272 (p. 21)	American Art Since 1876	3
ART HS 2279 (p. 21)	American Architecture	3
ART HS 2281 (p. 21)	Art Since 1960	3
CHINESE 2191 (p. 21)	Special Topics in Chinese Culture	3
ENGL 1120 (p. 21)	Introduction to Literature	3
ENGL 1170 (p. 21)	American Literary Masterpieces	3

^{**}satisfies cultural diversity requirement

ENGL 1175 (p. 21)	Arts And Ideas	3	HONORS 2010 (p. 21)	Inquiries In The Humanities	3
ENGL 1710 (p. 21)	Native American Literature	3	HONORS 2020 (p. 21)	Inquiries In The Fine And Performing Arts	3
ENGL 1950 (p. 21)	Topics In Literature	3	HONORS 2310 (p. 21)	Cultural Diversity In The Humanities	3
ENGL 2030 (p. 21)	Beginning Poetry Writing Workshop	3	INTDSC 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
ENGL 2040 (p. 21)	Beginning Fiction Writing	3	JAPAN 2102 (p. 21)	Intermediate Japanese II	5
ENGL 2120 (p. 21)	Topics In Writing	3	JAPAN 2150 (p. 21)	Classical Japanese Literature In Translation	3
ENGL 2240 (p. 21)	Literature Of The Old Testament	3	JAPAN 2191 (p. 21)	Special Topics in Japanese Culture	3
ENGL 2250 (p. 21)	Literature Of The New Testament	3	MEDIA ST 1060 (p. 21)	Introduction to World Cinema	3
ENGL 2280 (p. 21)	Contemporary World Literature	3	MEDIA ST 1070 (p. 21)	Introduction To Cinema	3
ENGL 2310 (p. 21)	English Literature Before 1790	3	MEDIA ST 1110 (p. 21)	Introduction To Radio And Television Broadcasting	3
ENGL 2320 (p. 21)	English Literature After 1790	3	MEDIA ST 2271 (p. 21)	History Of American Film	3
ENGL 2330 (p. 21)	Introduction To Poetry	3	MEDIA ST 2272 (p. 21)	Contemporary Cinema	3
ENGL 2340 (p. 21)	Introduction To Drama	3	M H L T 1001 (p. 21)	Introduction To Music	3
ENGL 2710 (p. 21)	American Literature Before 1865	3	M H L T 1010 (p. 21)	History Of Western Music I	3
ENGL 2720 (p. 21)	American Literature After 1865	3	M H L T 1020 (p. 21)	History Of Western Music II	3
FGN LANG 2100 (p. 21)	Languages and World View	3	M H L T 1060 (p. 21)	Introduction To African-American Music	3
FRENCH 2170 (p. 21)	Intermediate French Language And Culture	3	M H L T 1070 (p. 21)	Introduction To Jazz	3
FRENCH 2180 (p. 21)	Readings In French	3	M H L T 1080 (p. 21)	Introduction To Irish Traditional Music	3
GERMAN 2170 (p. 21)	Intermediate Practice in Speaking and Writing German	3	M H L T 1090 (p. 21)	Non-Western Music I	3
GERMAN 2180 (p. 21)	Intermediate Readings In German	3	M H L T 1110 (p. 21)	Introduction To Irish Traditional Music In North America	3
HIST 1111 (p. 21)	Reacting to the Past	4	M H L T 1130 (p. 21)	Introduction to Music Theatre	3
HIST 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6	M H L T 1140 (p. 21)	Popular Music in America	3
HIST 2116 (p. 21)	History of Greece and The Balkans	3	M H L T 1150 (p. 21)	Drumming Cultures of the World	3
HONORS 1110 (p. 21)	Western Traditions: Humanities	3	M H L T 1160 (p. 21)	Musical Journey through Latin America	3
HONORS 1111 (p. 21)	Western Cultural Traditions And Critical Thinking	3	M H L T 1170 (p. 21)	Musical Journey through the Far East	3
HONORS 1200 (p. 21)	Freshman Symposium: Cultural Traditions I	3	M H L T 1175 (p. 21)	Arts And Ideas	3
HONORS 1201 (p. 21)	Freshman Symposium: Cultural Traditions II	3	M H L T 1180 (p. 21)	Musical Journal Through Africa	3
HONORS 1310 (p. 21)	Non-Western Traditions Series Humanities	3	M H L T 1190 (p. 21)	Musical Journey of the Native North American	3

PHIL 1030 (p. 21)	Present Moral Problems	3
PHIL 1090 (p. 21)	Philosophy Looks at the Arts	3
PHIL 1091 (p. 21)	Great Philosophers	3
PHIL 1110 (p. 21)	Western Philosophy I: Antiquity To The Renaissance	3
PHIL 1111 (p. 21)	Western Philosophy II: Descartes To The Present	3
PHIL 1120 (p. 21)	Asian Philosophy **	3
PHIL 1125 (p. 21)	Islamic Philosophy **	3
PHIL 1130 (p. 21)	Approaches To Ethics	3
PHIL 1150 (p. 21)	Introduction to Philosophy	3
PHIL 1151 (p. 21)	Love 101	3
PHIL 1160 (p. 21)	Critical Thinking	3
PHIL 1163 (p. 21)	Disagreement, Difference, Diversity	6
PHIL 1175 (p. 21)	Arts And Ideas	3
PHIL 1178 (p. 21)	Superhuman Mind	3
PHIL 1185 (p. 21)	Philosophy Of Religion	3
PHIL 2252 (p. 21)	Philosophical Foundations Of Criminal Justice	3
PHIL 2253 (p. 21)	Philosophy And Feminism	3
PHIL 2254 (p. 21)	Business Ethics	3
PHIL 2255 (p. 21)	Environmental Ethics	3
PHIL 2256 (p. 21)	Bioethics	3
PHIL 2257 (p. 21)	Happiness and the Meaning of Life	3
PHIL 2258 (p. 21)	Medicine, Values, And Society	3
PHIL 2259 (p. 21)	Engineering Ethics	3
PHIL 2276 (p. 21)	Philosophy of Film	3
PHIL 2280 (p. 21)	Minds, Brains, And Machines	3
PHIL 2283 (p. 21)	Markets & Morals	3
SOC 1999 (p. 21)	The City	3
SOC 2200 (p. 21)	Languages and World View	3

SPANISH 2171 (p. 21)	Spanish Conversation And Pronunciation	3
SPANISH 2172 (p. 21)	Spanish Composition	3
SPANISH 2180 (p. 21)	Readings In Spanish	3
THRY COM 1301 (p. 21)	Theory Of Music I	3
THRY COM 1311 (p. 21)	Theory Of Music II	3
THRY COM 2301 (p. 21)	Theory Of Music III	3
THRY COM 2311 (p. 21)	Theory Of Music IV	3
TH DAN 1175 (p. 21)	Arts And Ideas	3
TH DAN 1210 (p. 21)	Fundamentals Of Acting	3
TH DAN 1800 (p. 21)	Introduction To Theatre	3
TH DAN 1850 (p. 21)	Introduction To Non-Western Theatre	3
TH DAN 2020 (p. 21)	Acting for the Camera	3
TH DAN 2105 (p. 21)	Script Analysis	3
TH DAN 2810 (p. 21)	History Of World Theatre And Drama Through The Restoration	3
TH DAN 2820 (p. 21)	History Of World Theatre & Drama From 18Th C To Contemporary Time	3
TH DAN 2840 (p. 21)	History Of Dance To The 19Th Century	3

Goal #6 Mathematics and Life/Natural Sciences Knowledge

The Mathematics and Life/Natural Sciences Knowledge Goal develops students' abilities in the areas of mathematics and sciences. In mathematics, the goal develops the students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. To meet this goal, students must have one mathematics course that has the same prerequisite(s) and level of rigor as college algebra. In the life and natural sciences, this goal develops the students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts (CBHE General Education, June 2000). Students must complete a minimum or twelve credit hours in the Mathematics and Life/Natural Sciences Knowledge

Note: All students are required to earn a C- or better in a collegecredit mathematics course (Math 1020 or higher meets this requirement at UMSL), or achieve a score of 26 or higher on the Missouri Math Placement Test. Students should check the current

schedule of courses for more	details regarding	math proficiency	and
placement.			

ANTHRO 1005 (p. 21)	Introduction To Biological Anthropology	4
ASTRON 1001 (p. 21)	Cosmic Evolution Introductory Astronomy	4
ASTRON 1001A (p. 21)	Cosmic Evolution/Introduction Astronomy	3
ASTRON 1011 (p. 21)	Planets And Life In The Universe	3
ASTRON 1012 (p. 21)	The Violent Universe And The New Astronomy	3
ASTRON 1050 (p. 21)	Introduction To Astronomy I	3
ASTRON 1051 (p. 21)	Introduction To Astronomy II	3
ASTRON 1121 (p. 21)	The Search For Extraterrestrial Life	3
ATM SCI 1001 (p 21)	. Elementary Meteorology	4
ATM SCI 1001A (p. 21)	Elementary Meteorology	3
BIOL 1012 (p. 21)	General Biology	3
BIOL 1013 (p. 21)	General Biology Laboratory	2
BIOL 1102 (p. 21)	Human Biology	3
BIOL 1131 (p. 21)	Human Physiology And Anatomy I	4
BIOL 1141 (p. 21)	Human Physiology And Anatomy II	4
BIOL 1162 (p. 21)	General Microbiology	3
BIOL 1202 (p. 21)	Environmental Biology	3
BIOL 1821 (p. 21)	Introductory Biology: Organisms And The Environment	5
BIOL 1831 (p. 21)	Introductory Biology: From Molecules To Organisms	5
BIOL 1999 (p. 21)	Evolution for Everyone	3
CHEM 1011 (p. 21)	Chemistry In The Environment And Every Day Living	3
CHEM 1052 (p. 21)	Chemistry For The Health Professions	4
CHEM 1062 (p. 21)	Organic & Biochem For The Health Professions	2
CHEM 1081 (p. 21)	Introductory Chemistry I-A	3
CHEM 1091 (p. 21)	Introductory Chemistry IB	3
CHEM 1111 (p. 21)	Introductory Chemistry I	5
CHEM 1121 (p. 21)	Introductory Chemistry II	5

CHEM 2223 (p. 21)	Quantitative Analysis	3
CHEM 2612 (p. 21)	Organic Chemistry I	3
CHEM 2622 (p. 21)	Organic Chemistry II	3
CHEM 2633 (p. 21)	Organic Chemistry Laboratory	2
CHEM 3412 (p. 21)	Basic Inorganic Chemistry	2
GEOL 1001 (p. 21)	General Geology	4
GEOL 1001A (p. 21)	General Geology	4
GEOL 1002 (p. 21)	Historical Geology	4
GEOL 1002A (p. 21)	Historical Geology Lecture	3
GEOL 1053 (p. 21)	Oceanography	3
HIST 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
HONORS 2050 (p. 21)	Inquiries In The Natural Sciences	1-3
HONORS 2051 (p. 21)	Inquiries in the Sciences: Laboratory or Field Work	1
INTDSC 1999 (p. 21)	Big History: From the Big Bang to the Blackberry	3-6
MATH 1020 (p. 21)	Contemporary Mathematics	3
MATH 1021 (p. 21)	Choice and Chance	3
MATH 1030 (p. 21)	College Algebra	3
MATH 1035 (p. 21)	Trigonometry	2
MATH 1100 (p. 21)	Basic Calculus	3
MATH 1102 (p. 21)	Finite Mathematics	3
MATH 1105 (p. 21)	Basic Probability And Statistics	3
MATH 1150 (p. 21)	Structure Of Mathematical Systems I	3
MATH 1800 (p. 21)	Analytic Geometry And Calculus I	5
MATH 2510 (p. 21)	Structure Of Mathematical Systems II	3
PHIL 1021 (p. 21)	Choice and Chance	3
PHYSICS 1001 (p. 21)	How Things Work	3
PHYSICS 1011 (p. 21)	Basic Physics 1	4
PHYSICS 1012 (p. 21)	Basic Physics II	4

PHYSICS 2111	Physics: Mechanics And Heat	5
(p. 21)		
PHYSICS 2112	Physics: Electricity, Magnetism, And Optics	5
(p. 21)		

Credit Hours

All candidates for baccalaureate degrees must complete a minimum of 120 semester hours. At least 45 of these hours must be courses numbered 2000 or above (or comparable courses transferred). Students must maintain a minimum 2.0 grade point average overall, as well as in their area of specialization. Students seeking two degrees must meet all degree and residency requirements of each degree.

Other Requirements

Mathematical Skills

Proficiency in the basic mathematical skills area should be satisfied before the student completes 24 hours of course work. Proficiency can be obtained in either of the following ways.

Completing, with a grade of C- or better, a college degree credit mathematics course. Scoring 26 or higher on the Missouri Math Placement Test (MMPT). The MMPT covers mathematics through the college algebra level

*The first two college credit mathematics courses that the university offers which satisfy mathematics proficiency are Contemporary Mathematics and MATH 1030 (p. 21) College Algebra. MATH 1020 (p. 21) is designed as a terminal mathematics course for students who do not plan to take calculus. MATH 1030 (p. 21) is required for all students who want to go on to calculus. The prerequisite for enrolling in MATH 1020 (p. 21) or MATH 1030 (p. 21) is a satisfactory score on the math placement test. This test must be taken not earlier than six months before enrolling in the course.

Study guides for the UMSL Math Placement Test and the MMPT (as well as the UMSL Trigonometry Test, which is not needed for minimum math proficiency) are available on the university's home page, under math placement information/math practice test, as well as at the circulation desk of the Thomas Jefferson Library (file number 991). Students will need to make their own copies. Math placement test dates are published in the Schedule of Courses and on the math placement website.

Advanced Expository Writing

Effective fall semester 1985, students must also complete ENGL 3100 (p. 21), Advanced Expository Writing, or its equivalent, with a grade of Corrabove.

American History and Government

Students must satisfactorily complete a course or courses in American history or government taken at UMSL or at other colleges or universities in Missouri. Transfer students should check with the dean's office of their division to find out if they have fulfilled this requirement.

The requirement may be satisfied by one of the following courses:

CRIMIN 1100 (p. 21)	Introduction To Criminology And Criminal Justice	3
ECON 2800 (p. 21)	History Of American Economic Development	3

GS 2020 (p. 21)	History of Women and Social Movements	3
HIST 1001 (p. 21)	American Civilization To 1865	3
HIST 1002 (p. 21)	American Civilization 1865 To Present	3
HIST 1003 (p. 21)	African-American History	3
HIST 1004 (p. 21)	The History Of Women In The United States	3
HIST 2001 (p. 21)	Creating Early America: European Empires, Colonial Cultures, and Native Nations, 1565-1776	3
HIST 2003 (p. 21)	United States History: From Nation to Civil War	3
HIST 2004 (p. 21)	United States History: The Civil War Era, 1860-1900	3
HIST 2005 (p. 21)	The Modernization Of The United States	3
HIST 2006 (p. 21)	Recent United States History	3
HIST 2007 (p. 21)	History Of Missouri	3
HIST 2010 (p. 21)	From Sea to Shining Sea: The American Frontier 1763 - 1890	3
HIST 2020 (p. 21)	History of Women and Social Movements	3
HIST 2023 (p. 21)	US Foreign Relations and Military History To 1900	3
HIST 2024 (p. 21)	US Foreign Relations and Military History Since	3
HIST 2800 (p. 21)	History Of American Economic Development	3
Z1)		
HIST 3041 (p. 21)	Topics In American Constitutional History	3
HIST 3041 (p. 21) POL SCI 1100 (p.	Topics In American Constitutional History Introduction To American Politics	3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p.	•	
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p.	Introduction To American Politics	3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p.	Introduction To American Politics Law, Politics and Society	3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law	3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law	3 3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21) POL SCI 2320 (p. 21) POL SCI 2350 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law State Politics	3 3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21) POL SCI 2320 (p. 21) POL SCI 2350 (p. 21) POL SCI 2380 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law State Politics African Americans And The Political System	3 3 3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21) POL SCI 2320 (p. 21) POL SCI 2350 (p. 21) POL SCI 2380 (p. 21) POL SCI 2380 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law State Politics African Americans And The Political System Introduction To Urban Politics	3 3 3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21) POL SCI 2320 (p. 21) POL SCI 2350 (p. 21) POL SCI 2380 (p. 21) POL SCI 2400 (p. 21) POL SCI 2400 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law State Politics African Americans And The Political System Introduction To Urban Politics The Politics of Gender in the United States	3 3 3 3 3
HIST 3041 (p. 21) POL SCI 1100 (p. 21) POL SCI 2260 (p. 21) POL SCI 2280 (p. 21) POL SCI 2290 (p. 21) POL SCI 2300 (p. 21) POL SCI 2320 (p. 21) POL SCI 2320 (p. 21) POL SCI 2350 (p. 21) POL SCI 2380 (p. 21) POL SCI 2400 (p. 21) POL SCI 2400 (p. 21) POL SCI 2420 (p. 21)	Introduction To American Politics Law, Politics and Society Judicial Politics And Policy Gender And The Law State Politics African Americans And The Political System Introduction To Urban Politics The Politics of Gender in the United States Public Administration	3 3 3 3 3

Archaeology Of Missouri

ANTHRO 2131

3

POL SCI 3210 (p. Civil Liberties 21)	3
POL SCI 3260 (p. The Supreme Court 21)	3
POL SCI 3300 (p. The American Presidency 21)	3
POL SCI 3330 (p. Introduction To Political Behavior 21)	3
POL SCI 3331 (p. Congressional Politics 21)	3
POL SCI 3350 (p. Political Parties And Elections 21)	3
POL SCI 3450 (p. Urban Administration 21)	3
POL SCI 4460 (p. Urban Planning And Politics 21)	3

Cultural Diversity Requirement.

To expand cultural awareness, students in some academic units may be required to complete a course that emphasizes Asian, African, Middle Eastern, Latin American, Pacific aboriginal, Native American, or a comparable culture. Courses that satisfy this requirement involve substantial material independent of the cultures' interactions with European cultures. If a course focuses on one facet of a culture, it must treat the topic within the context of the culture as a whole. These courses are also coded with the initials [CD] for Cultural Diversity This requirement may be met by one of the following courses:

ANTHRO 1011 (p. 21)	Introduction To Cultural Anthropology	3
ANTHRO 1019 (p. 21)	Introduction To Archaeology	3
ANTHRO 1021 (p. 21)	The Body In Culture	3
ANTHRO 1025 (p. 21)	World Cultures	3
ANTHRO 1033 (p. 21)	World Archaeology	3
ANTHRO 1041 (p. 21)	Sex And Gender Across Cultures	3
ANTHRO 1091 (p. 21)	Introductory Topics In Anthropology	3
ANTHRO 2100 (p. 21)	Languages and World View	3
ANTHRO 2111 (p. 21)	Cultures Of East Asia	3
ANTHRO 2114 (p. 21)	Cultures Of The Near And Middle East	3
ANTHRO 2120 (p. 21)	Native Peoples Of North America	3
ANTHRO 2121 (p. 21)	Native American Spirituality	3
ANTHRO 2123 (p. 21)	Cultures Of Oceania	3
ANTHRO 2124 (p. 21)	Cultures Of Africa	3

(p. 21)		
ANTHRO 2132 (p. 21)	Archaeology Of North America	3
ANTHRO 2134 (p. 21)	Archaeology Of The Inca, Aztec, And Maya	3
ANTHRO 2173 (p. 21)	Archaeology And Cultures Of The Biblical World	3
ANTHRO 2191 (p. 21)	Special Topics In Non-Western Culture	3
ANTHRO 3235 (p. 21)	Women In Subsaharan Africa: A Contemporary Perspective	3
ANTHRO 4000 (p. 21)	Ethnographic Field Research Methods	3
ART HS 1102 (p. 21)	Art Of Eqypt and the Ancient Near and Middle East	3
ART HS 1104 (p. 21)	Indigenous Arts Of North America	3
ART HS 1105 (p. 21)	Introduction To The Arts Of Africa	3
ART HS 1108 (p. 21)	Introduction To The Arts Of Asia	3
ART HS 4408 (p. 21)	Topics In The Arts Of Asia	3
ENGL 2280 (p. 21)	Contemporary World Literature	3
CHINESE 2150 (p. 21)	Chinese Literature In Translation	3
GEOG 2001 (p. 21)	Cultural Geography	3
HIST 1041 (p. 21)	East Asian Civilization	3
HIST 1042 (p. 21)	East Asian Civilization	3
HIST 1051 (p. 21)	Latin American Civilization	3
HIST 1061 (p. 21)	African Civilization: From The Beginning of Humanity to The End of The Slave Trade	3
HIST 1062 (p. 21)	African Civilization II: From Colonies to Nations	3
HIST 2052 (p. 21)	History Of Latin America Since 1808	3
HIST 2053 (p. 21)	Modern Mexico	3
HIST 2063 (p. 21)	African Diaspora To Abolition of the Slave Trade	3
HIST 2064 (p. 21)	African Diaspora in the Age of Migration	3
HIST 3032 (p. 21)	Modern China: From the Decline of the Qing Empire to the Global Age	3
HONORS 1330 (p. 21)	Non-Western Traditions Series-Social Sciences	3
HONORS 2310 (p. 21)	Cultural Diversity In The Humanities	3
HONORS 2330	Cultural Diversity In The Social Sciences	3

JAPAN 2150 (p. 21)	Classical Japanese Literature In Translation	3
JAPAN 2191 (p. 21)	Special Topics in Japanese Culture	3
M H L T 1090 (p. 21)	Non-Western Music I	3
MHLT 1160 (p. 21)	Musical Journey through Latin America	3
M H L T 1170 (p. 21)	Musical Journey through the Far East	3
M H L T 1180 (p. 21)	Musical Journal Through Africa	3
M H L T 1190 (p. 21)	Musical Journey of the Native North American	3
PHIL 1120 (p. 21)	Asian Philosophy	3
PHIL 1125 (p. 21)	Islamic Philosophy	3
POL SCI 1500 (p. 21)	Introduction To Comparative Politics	3
POL SCI 1550 (p. 21)	Women And Politics In The Developing World	3
POL SCI 2520 (p. 21)	Middle Eastern Politics	3
POL SCI 2530 (p. 21)	Political Systems Of South America	3
POL SCI 2540 (p. 21)	Political Systems Of Mexico, Central America And The Caribbean	3
POL SCI 2550 (p. 21)	East Asian Politics	3
POL SCI 2580 (p. 21)	African Politics	3
POL SCI 4520 (p. 21)	Mega-Cities and Diasporas: Understanding Global Migration	3
SOC WK 2330 (p. 21)	Asians In Migration	3
TH DAN 1850 (p. 21)	Introduction To Non-Western Theatre	3

Reserve Officers Training Courses

Only MIL SCI 4401 (p. 21) and MIL SCI 4402 (p. 21) may receive degree credit in Arts and Sciences and the College of Fine Arts and Communication. All other Military Science courses receive no credit and they are not counted in the student's grade point average.

Graduate Studies

The Graduate Faculty sets Graduate School policies in the Bulletin. Students should be aware that their programs might have rules and policies that are above these minimum university-wide requirements.

Admissions

The University of Missouri-St. Louis admits qualified individuals to study for graduate degrees and certificates. Students with a bachelor's degree or the equivalent from an accredited college or university may apply for admission to the Graduate School. Applicants may be denied admission if:

- 1. they do not meet admission standards,
- 2. there are no available openings, or
- 3. applications are incomplete at the time of the decision.

Application procedures and forms are available on the Graduate School's Web site.

To receive graduate credit at the University of Missouri-St. Louis, students must have been admitted to the Graduate School as Degree-seeking, Graduate Certificate, or Non-Degree seeking (or Lifelong Learner) student before registering for classes.

Degree-Seeking or Graduate Certificate Students

Applicants for a degree or graduate certificate program at the University of Missouri-St. Louis submit an application, official transcript documenting the baccalaureate degree and all other prior coursework, scores from examinations required by the program, and other evidence of academic and professional preparation required by the program. Such evidence may include standardized test results, letters of recommendation, transcripts of all academic work attempted, and writing samples.

When there are openings for new students, applicants are normally admitted given official evidence of:

- a baccalaureate or advanced degree from an accredited institution of higher education,
- an undergraduate grade point average (GPA) and major field GPA of at least 2.75,
- 3. an acceptable score on each requisite examination, and
- 4. satisfactory additional materials required by the particular program.

The dean of the Graduate School makes the final decision on applications, based on recommendations from the program.

Non-Degree-Seeking Student

Applicants may seek status as Non-Degree-seeking graduate students if they are visiting students, they do not intend to pursue a degree, or they want to participate in graduate workshops or institutes. Applicants must provide an official transcript showing completion of a baccalaureate or higher degree, with a GPA of at least 2.5.

The dean of the Graduate School admits Non-Degree-seeking students only upon recommendation of the program.

A Non-Degree student must maintain a GPA of at least 3.00.

Course work completed by Non-Degree students is not regarded as work toward a degree program. Therefore, Non-Degree students are not eligible for federal financial aid. Should a Non-Degree student apply for Degree-Seeking status and be admitted to the program the maximum hours of Non-Degree status work that can be applied to a degree program is nine semester hours. A Non-Degree student wishing to take more than nine hours may be allowed to do so contingent upon departmental recommendation. No credits taken as Non-Degree status may count as part of the residence requirement for a degree.

Non-Degree Education Certification students are exempt from the ninehour limitation on non-degree courses because they take courses for State Department of Education certification. However, all other conditions regarding admission and registration that apply to Non-Degree students apply to Education Certification students.

Students wishing to change from Non-Degree to Degree-seeking must submit a new graduate application for review and approval by the program and the dean of the Graduate School.

Graduate Study for Lifelong Learning

Lifelong learners often want to take graduate courses without enrolling in a specific program. They may want to prepare for admission to a graduate degree program at UMSL or elsewhere, explore a new discipline, take courses, workshops, or institutes for career advancement, or simply undertake personal enrichment experiences. Status as a Non-Degree Graduate Lifelong Learner, or graduate post-baccalaureate, allows students such flexibility. A Non-Degree Graduate Lifelong Learner has access not only to some graduate and undergraduate classes but also UMSL's libraries, laboratories, recreational facilities, etc.

Since graduate programs may limit the availability of their courses to students without full admission to their program, prospective Non-Degree Graduate Lifelong Learner should check the Bulletin for course prerequisites. The graduate program director in which they wish to take courses can give prospective students more information. Programs and directors are listed online.

The Non-Degree Graduate Lifelong Learner program is administered by the Graduate School, which normally seeks approval from the unit before admitting students.

If a Non-Degree Graduate Lifelong Learner is later accepted to a graduate program, up to 9-12 hours of credit taken as a non-degree graduate student may be applied to a graduate degree or certificate program upon approval of faculty in that program. Again, communication with the program director is critical.

Applicants who submit a transcript documenting a baccalaureate degree or its equivalent from a U.S. university or a university in which instruction is in the English language may be admitted to UMSL as Non-Degree Graduate Lifelong Learner.

International students residing in the United States who do not satisfy the above requirement and are seeking admission as a Non-Degree Graduate Lifelong Learner must provide the transcript and the same evidence of proficiency in English as required for international graduate admissions.

Non-Degree Graduate Lifelong Learners pay graduate educational tuition and fees regardless of whether they take graduate or undergraduate courses.

Non-degree graduate students are not eligible to receive veteran's benefits or to hold campus-sponsored assistantships. Federal financial aid may be available to some non-degree students for preparatory coursework such as teacher certification; information is available in the financial aid office.

Like all graduate students, Non-Degree Graduate Lifelong Learner must maintain a 3.0 GPA. If the cumulative GPA is less than 3.0, the student will be given one automatic probationary semester. If, after one semester of probation, the student's cumulative GPA does not reach 3.0, the student may be granted a second probationary semester only upon approval of the Dean of the Graduate School. (Summer sessions are not counted as probationary semesters.) If the student fails to achieve a cumulative GPA of 3.0 following the second probationary semester, the student will

be made ineligible to enroll as a non-degree or degree-seeking graduate student.

If at any time a student's term or cumulative GPA falls below 2.0, the Non-Degree Graduate Lifelong Learner will be ineligible to enroll as a nondegree or degree-seeking graduate student.

Inter-University Graduate Exchange Students

Inter-University Graduate Exchange students are Washington University and St. Louis University students who enroll on their home campus for UMSL courses not offered on their own campus.

Degree-seeking graduate students at UMSL may also participate in these programs if their advisors and the Graduate School approve their requests. Certain restrictions apply.

Unclassified Students

Students who are not qualified for admission to the Graduate School may be considered for undergraduate admission to UMSL as Unclassified Students by applying as an undergraduate non-degree student. Unclassified Students are considered Post-baccalaureate undergraduates, are not admitted to the Graduate School, may not take graduate-level courses, and do not receive graduate credit. Credits earned by an Unclassified Student may not later be considered as graduate credits should the student subsequently be admitted to the Graduate School.

Enrollment in Off-Campus and Continuing Education Courses

Students who have been admitted to the Graduate School may enroll in off-campus graduate courses without further application.

Students with a baccalaureate degree who have not been admitted to the Graduate School must be approved for admission as a Non-Degree graduate student to take Continuing Education courses for graduate credit.

Admission of International Students

International students must meet all requirements for admission to the Graduate School. In addition, international students whose native language is not English and who have spent less than two of the last three years in an English-speaking country are required to submit scores from an internationally accepted standardized examination before a decision is made on admission. International Admissions information is available from the Office of International Student and Scholar Services. Phone 314-516-5229; Fax 314-516-5636; e-mail: iss@umsl.edu.

Teaching assistantships will be awarded only to students with demonstrated oral English proficiency. Normally international teaching assistants may not teach during their first semester on campus.

When it is not possible for a student to take the required examination for reasons beyond personal convenience, the program to which the student has applied may develop alternate ways for that particular student to demonstrate English language competence prior to admission. The graduate dean must approve such alternative metrics.

Applicants from other countries shall provide a course by course report from one of three professional evaluation organizations in the United States - World Education Services (WES), Educational Credential Evaluators (ECE), or the American Association of Collegiate Registrars and Admissions Officers (AACRAO). They shall also provide a statement

of their financial situation and of the anticipated form of support for the period of graduate study.

Enrollment

Students who have been admitted to the Graduate School may enroll in classes in any term within one calendar year after admission. New students are strongly urged to seek advising before registering. If an advisor is not assigned, then the graduate director in the program should be the student's first contact in the department. A current list of graduate program directors is found on the Programs page of the Graduate School website.

To remain in good standing, most students must enroll for at least one term each calendar year. Students not meeting this enrollment requirement will become inactive and be required to reapply. Information on re-enrollment requirements is on the Graduate School Website. If students reapply and are readmitted, then they will be subject to all regulations in effect at the time of readmission.

Doctoral study is an exception to the normal enrollment requirement. After they achieve candidacy, doctoral students must enroll each fall and spring semester until the degree is completed.

International students on student visas must enroll fulltime for each fall and spring semester.

Final Semester Graduate Exam Fee

Graduate students must enroll in the semester in which they graduate. If they have completed required course work, thesis, or dissertation credits, then they must enroll in "Graduate Exam".

Fulltime Study

The minimal fulltime course load is nine credit hours for a regular semester and/or the eight-week summer session.

Graduate Equivalent Hours

In calculating credit hours for full-time enrollment, students may seek approval for the following semester hour equivalents:

- Three equivalency hours for holding a 0.5 FTE Graduate Teaching Assistantship, Graduate Research Assistantship, Graduate Assistantship, or Graduate Instructor position; up to two equivalency hours for appointments between 0.25 and 0.49 FTE.
- Three equivalency hours in the semester the student is preparing for comprehensive examinations. This semester-hour equivalency is allowed for a maximum of two semesters.
- Eight equivalency hours after achieving candidacy. This semesterhour equivalency is allowed for a maximum of two fall and two spring semesters.
- Eight equivalency hours for dissertation work. Once the graduate dean has approved a dissertation proposal, students may request equivalency hours until the eight-year time limit has expired.
- Participation in approved required out-of-class experiences in specific programs. Please see your advisor for the approved list.

Overloads

During the regular semester, students may not enroll in more than 12 hours. Normally no more than three credit hours may be taken in any fourweek period.

Heavier than normal loads may be permitted by the graduate dean, upon recommendation by the program director, for a) students whose cumulative UMSL GPA is substantially above the program average; and b) students in good academic standing for whom an overload of one course will permit them to graduate during the term in which the overload is taken. Students are normally not allowed to take an overload in their first semester in Graduate School.

Degree Program Plans

It is expected that graduate students will consult regularly with their advisors to plan a course of study that ensures timely completion of the requirements.

At least one-half of the credits for master's, educational specialist, and doctoral degree plans must be from 5000-level courses and above.

Within the major department, students normally may not take a 3000-level course for graduate credit. However, outside the department, a 3000-level course may be taken for graduate credit with the approval of students' advisors. Advisors must seek approval from the instructor, who may assign additional work commensurate with graduate status.

Courses numbered from 0 to 2999 may not be taken for graduate credit. No course applied to an undergraduate degree may be allowed in that student's graduate degree.

Credit for Courses Taken Prior to Enrolling in a Graduate Program at UMSL

Transfer credit shall be granted only for approved graduate courses for which a grade of at least B-, or equivalent, was achieved from an accredited institution.

Degree credit may be allowed for up to three credit hours for institutes, workshops, clinics, and Continuing Education courses only if offered by an appropriately accredited institution of higher education. Only such courses that award a letter grade may be applied to a graduate degree.

Students may transfer up to 18 hours of work on a Graduate Certificate Program Plan to a Master's or Doctoral Program Plan, if the program offering the degree approves the transfer.

Credit for Courses Taken at Other Universities After Enrolling in a Graduate Program at UMSL

Graduate students admitted to UMSL must petition in advance to take courses at another institution and apply the credit toward a graduate degree at UMSL.

With prior approval, regularly admitted graduate students are permitted to take a course not offered by UMSL at Washington University, St. Louis University, or Southern Illinois University-Edwardsville.

Time Limitation

The maximum time allowed for completion of a master's or educational specialist degree is six years after the first course enrollment. Graduate work completed outside these time periods may not be included in the degree program except under extraordinary circumstances and then only after recommendation from the graduate program for approval by the dean of the Graduate School. An exception to the time limitation may be approved in advance with an authorized leave of absence.

Leave of Absence

Graduate students who are forced to interrupt their studies for a period of one or more years should request a leave of absence from the university. In consultation with their advisors, students shall define the program modifications that the leave of absence requires. Requests must indicate the reason for leaving and the expected date of return to the university. Approval of the dean of the Graduate School is required.

The leave of absence is designed to suspend the requirement for continuous enrollment. It does not affect the maximum time limitation set for a degree program unless a specific exception is approved.

Undergraduate Enrollment in 5000-Level Courses

Under special circumstances undergraduate students in good standing at UMSL may enroll in 5000-level courses for undergraduate credit. Approvals from the advisor, department chairperson, academic dean, and dean of the Graduate School are required. In rare cases, students subsequently admitted to the Graduate School may petition for graduate credit for 5000-level courses that they took as undergraduates, as long as those courses were not applied to their undergraduate degrees.

Dual Enrollment for Senior Undergraduates

With the approval of the divisional and graduate deans, seniors who have a 3.0 cumulative g.p.a. and are within 15 hours of completing graduation requirements for the first bachelor's degree may dually enroll as an undergraduate and a non-degree graduate student and earn up to six semester hours of graduate credit. For students in education, the 15 hours to complete graduation requirements do not include the hours required to complete undergraduate student teaching.

Courses taken while dually enrolled may not be counted for both undergraduate and graduate degree requirements. Consult with divisional deans for additional requirements. 2+3 students are not eligible for dual enrollment.

Dual enrollment forms must be completed and approved by the Graduate School prior to registering for the graduate level courses. Dually enrolled students are required to register for the graduate level courses using the graduate career in MyView.

Class Attendance

Only students who have previously paid fees may attend a class. Instructors are not authorized to allow students to attend classes if fees have not been paid. Students may not register and pay fees after the prescribed dates.

Preregistration

Enrolled students may preregister for the next term during regular preregistration periods. Registration is not complete until all university fees are paid.

Petitioning Into or Out of a Course

Students must receive the approval of their adviser and the course instructor to enroll in or withdraw from a course after registration.

Entering a Course in Progress

Students wishing to enter a course in progress must have the approval of the instructor and their adviser. Only under exceptional circumstances may students enter courses after the first week of the semester.

Dropping a Course

Students may drop courses before the end of the fourth week of a regular semester, the second week of an eight week session, or the first week of a four week session without receiving grades. At the end of this period and until the end of 12 weeks in a regular semester, 6 weeks in an eight week session, or 3 weeks in a four week session students may withdraw from courses with "Excused" grades providing they are passing the course and have the approval of the instructor and their adviser. Otherwise, a grade of F is given. Students who stop attending classes without officially dropping courses also receive grades of FN.

Transcripts

The registrar will furnish transcripts of credits to a student upon written request. Transcripts are furnished to students' parents or guardians or other parties or institutions only if students have filed written consent with the registrar. There is a charge per transcript. UMSL students or alumni transferring to another University of Missouri campus may ask the UMSL Director of Admissions to furnish a transcript to the appropriate Office of Graduate Admissions.

Requests for transcripts by organizations either financially supporting a student or with fee compensation programs are not honored unless the student has filed a consent form with the registrar, authorizing the release of such records.

Transcripts are not issued to or for students who have financial obligations to the university until those obligations are paid in full.

Academic Policies

Grades

Faculty teaching graduate courses have complete discretion in assigning grades.

Point assignments for grades are as follows;

- A = 4.0
- A- = 3.7
- B+ = 3.3
- B = 3.0
- B- = 2.7
- C+ = 2.3
- C = 2. 0
- C- = 1.7
- F = 0
- FN = 0
- EX = Excused
- DL = Delayed
- IP = In Progress
- S/U = A or B equivalent

The satisfactory/unsatisfactory (S/U) option is not normally available in courses for graduate credit. S/U grades may be given only for specific courses as requested by a school or college, with prior approval from the

Graduate Council. Courses on the S/U grading system will carry no points toward calculation of the grade point average. A Satisfactory grade is defined as an A or B equivalent.

Students who stop attending classes without officially dropping courses receive grades of F or FN, depending on the amount of work completed.

Students may enter courses as auditors but may not change from audit to credit or credit to audit after the first week of class. Auditors are charged full fees and receive no academic credit.

Delayed Grades

Delayed grades may be given when a student's work is of passing quality but is incomplete because of circumstances beyond the student's control. Delayed grades must be removed within two regular semesters (excluding summer) after the time recorded or they automatically become F grades. In such cases, course instructors may subsequently change F grades to other grades when all work has been comlpeted. A student may not graduate with any delayed grades on their transcript except in research courses required for a subsequent degree.

Failure/Non participation

When students do not complete any graded assignments but do not officially withdraw from the course or the university, instructors may assign an FN. The F for Non-Participation cannot be changed to a grade and will be treated in GPA calculations as an F.

Graduate Grade Appeals

In case of disputes regarding grades, graduate students shall follow the university Grade Appeal Process by first contacting the Department Chair. The policy is available on the Academic Affairs' Website.

Grade Point Average (GPA)

UMSL calculates three types of GPA. At the end of each semester, the Term GPA is calculated on the courses attempted that semester. The Cumulative GPA on the transcript includes all courses taken at UMSL for graduate credit, including courses that may not be a part of the degree program or certificate. The Degree Program GPA includes only the grades of those courses that are part of the degree program. The Degree Program or certificate GPA must be at least 3.0 for a student to receive a graduate degree.

Grade modification is not an option for graduate students.

Any course work transferred from other universities, including other UM campuses, will not be included in any GPA calculation.

Probation

Failure to make adequate progress jeopardizes students' potential to complete the degree as well as their financial aid. To provide students notice of inadequate progress at the end of each semester, graduate students with a cumulative GPA below 3.0 in a minimum of nine credit hours are placed on probation. A program may also place a student on probation if it regards the student's progress as unsatisfactory. The Graduate School will inform students of their probation, with copies sent to the graduate director of the program, the Graduate Admissions Office, and the Financial Aid Office.

If at the end of the probationary semester the cumulative GPA is at least 3.0 and the student is making adequate progress toward the degree, then the probationary status is removed. A probationary student who fails

to raise the cumulative GPA to 3.0 may, on the recommendation of the program, be allowed a second probationary semester.

Dismissal

Upon recommendation of the program director, the Graduate School may dismiss any graduate student who does not make adequate progress. A student who is on probation for more than two semesters during his/her program of study will be dismissed, unless the dean of the Graduate School approves an exception request for continuation from the program director. The Graduate School is responsible for notifying students, with copies sent to the graduate director of the program, the Graduate Admissions office, and the Financial Aid Office.

Master's Degree Requirements

Admission

Faculty in each master's degree program determine any eligibility standards beyond the minimum for admission to the Graduate School.

Enrollment

All master's degree students shall be enrolled for credit for access to university resources, including advisement, data gathering, or examinations.

Full-time status for all graduate students is defined as at least nine credit hours of course work. Individual programs may require higher enrollments.

Credit Requirements

A minimum of 30 semester hours of graduate credit is required for all master's degree programs. Specific programs may require a greater number of hours.

Residence Requirement

The final two-thirds of the courses in a master's degree program must be completed at UMSL.

Time Limitation

All courses included in a master's degree program, whether taken at UMSL or at another institution, shall have been completed within six years after enrollment in the first course.

Credit From a Certificate Program

Students who have completed course credits in certificate programs may transfer those credits into a master's degree program with the program's consent, as long as the credits fall within the time limitation set for master's degrees. If the master's degree is in a different program from that awarding the certificate, then no more than one-third of the credits from the certificate program may apply to the master's degree. Multi-disciplinary programs may seek programmatic exceptions to this limit when the program undergoes the approval process.

Dual Master's Degrees

With approval of the program and the Graduate School, students who have completed one master's degree may transfer appropriate credits to a second master's degree program. The number of transferable credits may not exceed one-third of the credit hours required by the second program. Subsequent transfers of the same courses to a third degree are not permitted.

With approval of the programs involved and the Graduate School, students may simultaneously pursue two master's degrees under the following conditions:

- No more than one-third of the credit hours required by either program may be applied to both programs;
- Students must obtain approval of both programs before completing 12 hours in either program.

Multi-disciplinary programs may seek programmatic exceptions to the one-third limit when the program undergoes the approval process by addressing specific allowable transfers between those two degree programs.

Master's Degree for Doctoral Students

Doctoral students may receive a master's degree in their program for work they have completed toward to a doctoral degree. The program establishes the requirements for such a master's degree. However, the requirements should, in principle, be similar to those for master's degrees offered by the program.

Doctoral and educational specialist students may also receive a master's degree for work they have completed toward to a doctoral or Ed.S. degree in another program provided:

- they apply no more than two-thirds of the master's degree courses to their doctoral degree program;
- 2. they have been admitted to the master's degree program; and
- they have obtained the approval of the advisors from both programs and from the Graduate School.

Credit from the master's degree must constitute less than half the total credits required for the doctorate.

Multi-disciplinary programs may seek programmatic exceptions to these limits when the program undergoes the approval process.

Filing the Degree Program Plan

A master's degree student shall file with the Graduate School a program plan approved by the program director before completing the first two-thirds of the credit hours required in the program. Students may petition the dean of the Graduate School to change the plan after it has been filed.

Comprehensive Examination, Scholarly Paper, or Exit Project

Each program requiring a comprehensive examination for the master's degree informs the Graduate School of:

- the number of times the program will allow its students to take a comprehensive examination, and
- 2. the period of time that the program will allow between the first and final attempt to pass the examination.

Master's Thesis

Programs recommend Graduate Faculty members to serve on committees for capstone projects. The graduate dean shall review and may appoint the committee.

Master's degree students who write a thesis must submit to the dean of the Graduate School one copy of the thesis by the posted university deadline, normally six weeks before the end of the term in which graduation is sought. The chairperson of the thesis committee is responsible for verifying that the final draft of the thesis is acceptable to the graduate dean and the thesis committee.

Students disseminate the thesis according to current Graduate School procedures.

Application for Master's Degree

To receive the master's degree, students who have met all degree requirements must apply for graduation by the end of the fourth week of classes during the fall or spring term or by the first day of the eight-week session during the summer term.

Educational Specialist Degree Requirements

Admission

Each educational specialist degree program shall determine any eligibility standards beyond the minimum for admission to Graduate School.

Enrollment

All educational specialist degree students shall be enrolled for credit for access to university resources, including advisement, data gathering, or examinations.

Full-time status for all graduate students is defined as at least nine credit hours of course work. Individual units may require higher enrollments.

Credit Requirements

A minimum of 60 semester hours of graduate credit is required for all educational specialist degree programs. Individual programs may require a greater number of hours.

Residence Requirement

Normally, at least one half of the courses in an educational specialist degree program must be completed at UMSL.

Time Limitation

All courses included in an educational specialist degree program, whether taken at UMSL or at another institution, shall have been completed within six years after enrollment in the first course.

When educational specialist students have earned a master's degree at any institution, appropriate credits may be applied toward meeting the requirement for the specialist degree, subject to program approval. Such credits shall constitute less than half of the total credits required for the educational specialist degree. Credit for courses taken for a master's degree is exempt from the six-year time limitation.

Filing the Degree Program Plan

An educational specialist degree student enrolled shall file an approved program plan with the Graduate School before completing two-thirds of the credit hours required in the program. Students may petition the dean of the Graduate School to change the plan after it has been filed.

Comprehensive Examination, Scholarly Paper, or Exit Project

Each program requiring a comprehensive examination for the specialist degree informs the Graduate School of:

- 1. the number of times the program will allow its students to take a comprehensive examination, and
- the period of time that the program will allow between the first and final attempt to pass the examination.

Programs recommend Graduate Faculty members to serve on committees for capstone projects. The graduate dean shall review and may appoint the committee.

Thesis

Programs recommend Graduate Faculty members to serve on committees for capstone projects. The graduate dean shall review and may appoint the committee.

Educational Specialist degree students who write a thesis must submit to the dean of the Graduate School one copy of the thesis by the posted university deadline, normally six weeks before the end of the term in which graduation is sought. The chairperson of the thesis committee is responsible for verifying that the final draft of the thesis is acceptable to the graduate dean and the thesis committee. Students shall disseminate the thesis according to current Graduate School procedure.

Doctoral Degree Requirements Admission

Each doctoral degree program may determine eligibility standards beyond the minimum for admission to the Graduate School.

Credit Requirements

A minimum of 60 semester hours of graduate credit is required in every doctoral degree program. Programs may require a greater number of hours for their programs, and individual students may be required to take additional hours.

Enrollment

Full-time status is defined as nine credit hours per semester. Programs may require higher enrollments than this. After students achieve candidacy and complete the residence requirement, they must remain enrolled during fall and spring semesters until they complete the degree. Failure to register in any regular semester will result in termination from the Graduate School. If students so terminated decide to reapply and if they are readmitted, then they will be subject to all regulations in effect at the time of readmission, and will be required to enroll for at least one credit hour for each semester since their last enrollment.

When doctoral students are enrolled for research credit, the credit amount may vary, but the student must register for all work required, and the credit total may exceed the minimum requirements.

Classification of Doctoral Students

There are two stages in doctoral degree work:

 A pre-candidate is a student who has requirements to fulfill in addition to the dissertation, including course work, and/or comprehensive examinations. A candidate is a student who has met all degree requirements except the completion of the dissertation.

Time Limitation

The maximum amount of time allowed for completion of a doctoral degree is eight years after the first course enrollment.

The maximum of 12 hours of graduate credit completed as a post-master's degree student prior to admission to a doctoral program may apply toward a doctoral degree. Inclusion of such course work is subject to program approval and must have been completed within eight years of the time the doctoral degree is awarded. Exceptions to this regulation must be justified on academically defensible grounds and approved by the graduate dean prior to filing the program plan.

When doctoral students have earned a master's degree at any institution, appropriate credits may be applied toward meeting the requirement for the doctoral degree, subject to program approval. Such credits shall constitute less than half of the total credits required for the doctorate. For example, for a doctoral degree requiring 90 hours of work beyond the bachelor's degree, no more than 44 credits from a master's degree may apply to the doctoral degree. Credit for courses taken for a master's degree is exempt from the doctoral program's eight-year time limitation.

Residence Requirement

The majority of credits used to satisfy requirements for a doctoral degree must be completed at UMSL. The residence requirement may be satisfied with dissertation credit hours, graduate institutes, and credit courses taken through Continuing Education, as well as regular courses.

Students who enter the Ed.D. or Ph.D. in Education degree programs with an Education Specialist (Ed.S.) degree from an accredited university, or with an Advanced Certificate approved by the Missouri Department of Elementary and Secondary Education, may satisfy the residence requirement by completing one-third of the required credits at UMSL.

Residency normally requires that doctoral students successfully complete a minimum of 15 hours over two consecutive terms, which may include summer. The dean of the Graduate School may grant exceptions upon recommendation by the program.

Comprehensive Examinations

Each program will determine the number of times a comprehensive examination may be taken by a student. The department or college must file with the Graduate School a statement specifying:

- the number of times the program will allow its students to take a comprehensive examination, and
- the maximum and/or minimum period of time the program will allow between the first and final attempt to pass the comprehensive examination.

The Comprehensive Examination Committee consists of no fewer than three members of the UMSL graduate faculty appointed by the graduate dean upon recommendation of the program.

An oral examination may not substitute for the standard written portion.

Advisors

Upon entering the program, each doctoral student will have an assigned program advisor who is a member of the Graduate Faculty. As early

as possible in a doctoral student's program, but no later than when the student achieves candidacy, the program will recommend, in consultation with the student, a doctoral dissertation advisor.

Application for Candidacy

Doctoral students may apply for candidacy after passing all required comprehensive and language examinations, written or oral, and successfully completing all course work. The program director approves the application and forwards it to the dean of the Graduate School for final approval.

Doctoral Dissertation Committee

The Doctoral Dissertation Committee consists of at least four members of the Graduate Faculty who can contribute their expertise to the dissertation study: the committee chair, and at least one other member from the program. A recognized scholar from outside the university may serve as a member upon the recommendation of the program and approval of the graduate dean. The graduate dean reviews and approves the committee membership and any changes in the committee membership.

Doctoral Dissertation

All doctoral degrees require a dissertation as a final component of the program. The dissertation must be written on a subject approved by the candidate's doctoral dissertation committee, must embody the results of original and significant research and must be the candidate's own work.

Dissertation Proposal

Before a student may conduct substantial research for the dissertation the committee must approve a proposal after a formal defense. The student submits the approved proposal for review and approval by the dean of the Graduate School. An approved dissertation proposal in no way implies a contract between the university and the student. Depending on the outcome of the research, the dissertation may require substantially more work than anticipated when the proposal was approved. The termination of a line of research and the adoption of a substantially new dissertation project requires the preparation, formal defense, and acceptance by the Graduate School of a new dissertation proposal.

Preliminary Approval

One copy of the dissertation, certified as complete and provisionally acceptable to the committee, shall be submitted to the graduate dean at least six weeks prior to commencement. The Dean of the Graduate School may seek advice and make suggestions to the committee about content and style before approving the dissertation.

Defense of Dissertation

Normally the approved Doctoral Dissertation Committee serves as the Oral Defense of Dissertation Committee. The graduate dean may appoint one additional qualified voting member to the Defense of Dissertation Committee from the Graduate Faculty within the University of Missouri System.

After deliberating on the oral defense of the dissertation, the Defense of Dissertation Committee votes on whether the defense was successful. The defense shall be deemed unsuccessful if there are two negative votes, even if outnumbered by positive votes. An abstention will be considered a negative vote. A student failing an oral defense shall have the opportunity for one additional defense before the same committee. The Defense

of Dissertation Committee shall determine the timing and format of the subsequent defense.

Final examinations are open to the public.

The decision of the Defense of Dissertation Committee is final. The report of the final examination is due to the Graduate School no later than two days after the examination.

Dissertation Abstracts

Two different abstracts are required. The publishing company requires an abstract of a maximum of 350 words that is published with the announcement of the dissertation defense. The abstract forming the second page of the dissertation should be no more than 600 words.

Dissertation Format

Only high quality copies are acceptable with the following margins throughout: left margin 1" inches; top, bottom, and right margins, 1 inch. Final copies may be submitted electronically following current procedures on the Graduate School Electronic Thesis and Dissertation homepage or in person in Room 421 Woods Hall on paper. Original hard copies of the dissertation must be typed on good quality paper, and they must be legible and neat in order to be accepted by the Graduate School.

In matter of style and documentation, the custom of the discipline shall be followed.

The chairperson of the dissertation committee is responsible for verifying that all the changes suggested by the graduate dean and the dissertation committee have been incorporated in the final draft of the dissertation or have been discussed further with the graduate dean or the committee.

Students disseminate the dissertation according to current Graduate School procedures.

Graduate Certificate Program Requirements

Admission

Each graduate certificate program may determine eligibility standards beyond the minimum for admission to and enrollment in the Graduate School.

Credit Requirements

A minimum of 18 hours of graduate course work is required for a graduate certificate. At least 12 of these hours must consist of courses drawn from the list of core courses for the particular certificate program. At least 12 hours must be completed as a graduate student at UMSL. At least nine hours must be at the 5000 level or above. No more than six hours may be independent study.

Filing the Program Plan

A graduate student enrolled in a certificate program is required to file a certificate program plan with the Graduate School before completing the first two-thirds of the number of hours required in the program. Changes made in a certificate program plan after it has been filed must be submitted to the Graduate School.

College of Arts & Sciences

General Information

The College offers a wide range of accredited baccalaureate, master's and doctoral degrees and multi-disciplinary certificates through 14 departments, the School of Social Work and the Gender Studies Program.

- Anthropology (B.A.)
- Biochemistry & Biotechnology (B.S., M.S.)
- Biology (B.A., B.S., M.S., Ph.D.)
- Chemistry and Biochemistry (B.A., B.S., M.S., Ph.D.)
- Criminology and Criminal Justice (B.S., M.A., Ph.D.)
- Economics (B.A., B.S., M.A.)
- English (B.A., M.A., M.F.A.)
- Modern Languages (B.A. with concentrations in French, Japanese, and Spanish)
- History (B.A., M.A.)
- Liberal Studies (B.L.S.)
- Mathematics and Computer Science (B.A., B.S., M.A., M.S., Ph.D.)
- Philosophy (B.A., M.A.)
- Physics and Astronomy (B.A., B.S., M.A., Ph.D.)
- Political Science (B.A., B.S.P.A, M.A., Ph.D.)
- Public Policy and Administration (M.P.P.A.)
- Psychology (B.A., M.A., Ph.D.)
- Social Work (B.S.W., M.S.W.)
- Sociology (B.A., B.S., M.A.)
- · Gender Studies (Certificate)

The College of Arts and Sciences consists of some 220 full-time faculty members in the following departments and school, each offering work in specific undergraduate degree programs: anthropology, biology, chemistry, criminology and criminal justice, economics, English, languages and cultures, history, mathematics and computer science, philosophy, physics and astronomy, political science, psychology, social work, and sociology.

In addition the College offers a Bachelors Degree in Biochemistry and Biotechnology, a Bachelor of Liberal Studies and a Bachelor of Interdisciplinary Studies.

Graduate study degree programs, administered through the Graduate School, are also offered in the following departments of the College of Arts and Sciences: biochemistry and biotechnology, biology, chemistry, criminology and criminal justice, economics, English, history, mathematics and computer science, physics and astronomy, philosophy, political science, psychology, and social work. An interdisciplinary master's degree in public policy administration is offered in cooperation with the College of Business Administration. Specific degree requirements for both undergraduate and graduate degree programs are described in the departmental sections which follow this general information on the college.

Coursework in the evening or through on-line instruction is made available by all departments of the College and the School of Social Work. The following degree programs can be completed in the evening:

- Bachelor of Arts in Biology, Chemistry, English, History, Mathematics, and Psychology.
- Bachelor of Science in Biology, Chemistry, Computer Science, Criminology and Criminal Justice, and Mathematics.
- · Bachelor of Social Work
- · Bachelor of Liberal Studies

Consult the website of the department in which you plan to major for details on degree requirements and a three year schedule of planned course offerings.

Requirements for Undergraduate Study

All majors in the College of Arts and Sciences, including Bachelor of Liberal Studies, must meet the following requirements:

- Requirements of their chosen baccalaureate degree (i.e., B.A., B.S., BSW., etc.) in accordance with the policies of the College of Arts and Sciences, explained below.
- Requirements of the department for their selected major or interdisciplinary program.
- Requirements for the University's general education (p. 28) & university requirements.
- Completion of INTDSC 1003 (p. 50) University Studies for all students admitted to UMSL with fewer than 24 academic credit hours.

Detailed information concerning all degree requirements can be found by visiting The College of Arts & Sciences Advising and Student Resources web site (http://www.umsl.edu/divisions/artscience/Advising%20and%20Student%20Resources).

Academic Policies

Grade Requirements

To graduate, all majors in the college must satisfy one of the following grade point options:

 Have a minimum UMSL campus grade point average of 2.0 and have met all other grade point restrictions for the degree or program.

Cultural Diversity Requirement

To expand cultural awareness, students in some academic units may be required to complete a course that emphasizes Asian, African, Middle Eastern, Latin American, Pacific aboriginal, Native American, or a comparable culture. Courses that satisfy this requirement involve substantial material independent of the cultures' interactions with European cultures. If a course focuses on one facet of a culture, it must treat the topic within the context of the culture as a whole. These courses are also coded with the initials [CD] for Cultural Diversity. A list of courses which satisfy this requirement can be found in the introductory section of this Bulletin.

Residency Requirements

Transfer students must complete at least 30 of the last 36 hours of their degree program in residence at the University of Missouri-St. Louis.

Unless otherwise specified, a transfer student must complete 12 hours of graded work at UMSL at the 2000 level or above within the minimum number of hours required for each major.

Unless otherwise specified, a transfer student must complete at least six hours of graded work at UMSL at the 2000 level or above within

the minimum number of hours required for each minor. Students should consult the minor department for specific residency and grade requirements.

Specific Baccalaureate Degree Requirements

Course Requirements

After fulfilling the general education and specific major degree requirements, students are to take the remaining hours required to complete the bachelor's degree from courses (which the appropriate department has evaluated as being of university-level quality) from one or more of the following areas or their university-quality equivalents at other institutions: anthropology/archaeology, art (appreciation, history, studio), astronomy, biology, chemistry, communication, criminology and criminal justice, economics, English, geology, history, mathematics/computer science, media studies, modern languages (French, Japanese, Spanish), music (appreciation, history, performance), philosophy, physics, political science, psychology, social work, sociology, theatre and dance, business, education, engineering, or interdisciplinary. Other areas or courses not listed require approval by the chair of the student's department.

Bachelor of Arts (B.A.)

All B.A. degree candidates must successfully complete a curriculum which includes a departmental major or an approved interdisciplinary field. A major must include at least 30 credit hours but no more than 45 hours. The College offers the B.A. degree in anthropology, biology, chemistry, economics, English, history, mathematics, modern languages, philosophy, physics, political science, psychology, and sociology.

Foreign Language Requirement

Candidates for the B.A. degree are required to complete 13 credit hours or the equivalent in proficiency in one foreign language. Foreign language guidelines are as follows:

- 1. Students entering with no high school language units must enroll in Language 1 or may enroll in the 2115 series (see section 4).
- Students with the degree of proficiency equivalent to 13 hours
 of college-level work in French, German or Spanish may obtain
 exemption by passing the department's placement exam. The
 specific dates for the exam are posted on-line or may be obtained
 from Languages and Cultures at 314-516-6240.
- 3. Native speakers of language other than English may meet the foreign language requirement by presenting a transcript from a university or secondary school of their native country. The department will certify native speakers of those languages which are taught at the university. Those who are proficient in other languages must submit certification of competence to the college.
- Language 2115 A, B, C (Intensive) will satisfy the foreign language requirement. Aptitude testing is required prior to enrollment. For more information, call the Department of Languages and Cultures at 314-516-6240
- Students may not repeat, for either credit or quality points, an elementary course if they have already completed a higher-level course for which the elementary course, or its equivalent, is a prerequisite.

Applied Music and Studio Art

Students not majoring in music may count no more than eight hours in music ensemble performance (EN PER 1400 (p. 50), EN PER 1410 (p. 50), EN PER 1500 (p. 50), EN PER 1520 (p. 50), etc). Students in the college not majoring in studio art may count any number of studio art hours toward a degree in the college. This includes transfer credit.

Bachelor of Science (B.S.)

The College offers the B.S. degree in mathematics, biochemistry and biotechnology, biology, chemistry, biochemistry, computer science, criminology and criminal justice, economics, physics (with emphasis in applied physics, astrophysics, engineering physics, or optical biophysics), and sociology. The requirements are generally the same as for the B.A. degree with the following exceptions:

- More credit hours in the major discipline may be counted toward satisfying the 120 hours needed for graduation. See departmental degree requirements for information.
- Not all departments require foreign language proficiency. See departmental degree requirements for information.

Bachelor of Liberal Studies (BLS)

(See Interdisciplinary Programs (p. 175) for complete description)

Bachelor of Interdisciplinary Studies (BIS)

(See Interdisciplinary Programs (p. 175) for complete description)

Bachelor of Science in Public Policy and Administration (B.S.P.A.)

The B.S.P.A. degree program is administered through the Political Science Department and offers two emphasis areas. Public Administration emphasizes management in the public and nonprofit sectors. Public Policy allows focus on a particular policy area with attention to analytic training and research skills.

Bachelor of Social Work (B.S.W.)

The School of Social Work offers the B.S.W. degree, stressing the scientific and applied aspects of social work.

Minors

A number of minors are available at UMSL. Some are offered by individual departments, while others, such as Classical Studies are interdisciplinary in nature and involve a number of departments. The requirements for the various minors are listed in either the departmental or interdisciplinary sections of this Bulletin.

Special Programs Certificate Programs

Graduate and undergraduate certificate programs are offered in archaeology biochemistry, biotechnology, forensic economics, labor studies, gerontology, studies in religions, trauma studies, tropical and conservation biology, nonprofit organization management and leadership, psychology-clinical re-specialization, gender studies, and writing.

International Studies Certificate

In cooperation with International Studies and Programs and other Colleges, the College offers certificate programs in African, East Asian, European, Greek, International, and Latin American studies. The College also cooperates in offering the International Business Certificate.

Departmental Honors

Majors in the following departments may pursue departmental honors: biology, chemistry, economics, English, history, modern languages, and political science.

Cooperative Education and Internship Programs

Cooperative education and internship programs are available for students seeking career-related employment while enrolled in school. These programs afford Arts and Sciences students an opportunity to gain practical experience and earn a substantial income. Co-ops and internships are administered through Career Services, 278 Millennium Student Center.

College of Arts and Sciences Extension

Credit courses are offered at off-campus locations through the continuing education branch of the College of Arts and Sciences. These courses are open to UMSL students and qualify for regular academic credit toward degrees in the college. In addition, noncredit courses are offered in a range of disciplines within the college.

Anthropology, Sociology, and Languages

General Information

The Department of Anthropology, Sociology and Languages in the College of Arts and Sciences at the University of Missouri-St. Louis offers majors in Anthropology, Modern Language, and Sociology. The faculty of this department are distinguished scholars and teachers who promote an interdisciplinary approach to learning about the biological, cultural, linguistic, and historical diversity of humanity. We are committed to advancing the understanding of the social and cultural forces that shape the beliefs, behaviors, and relationships of individuals as members of the larger society. We also teach about the impact of globalization on these forces. Visit the individual pages for the Anthropology, Sociology and Languages majors, minors, and certificates.

Degrees Offered

- · Bachelor of Arts in Anthropology
- · Bachelor of Arts in Modern Language
 - Concentrations in French, German, Japanese, and Spanish
- Bachelor of Arts in Sociology
- · Bachelor of Science in Sociology

Anthropology

General Information

The aim of anthropology is to understand the diversity of humans. For 100 years we have studied the cultures of the world, teaching people how to

see themselves more clearly through the eyes of those who are different from themselves and how to work with the underlying humanity that unifies all cultural differences.

Anthropology is the study of humans through all time and space. The discipline considers our struggle to adapt to and survive in the natural and social environments and to improve our lot in the face of perpetual change. Anthropologists teach how cultures evolve and the role of individuals and groups in the invention and perpetuation of cultural beliefs, behaviors, symbols, and systems. Anthropologists have accumulated in-depth knowledge of hundreds of cultures and use this to understand better our own cultural beliefs, actions, and institutions, as well as those of people from other cultures. As the science of cultures, anthropology brings a powerful perspective to bear in understanding the emerging global order. Cross-cultural and evolutionary insights and knowledge help us envision how we can incorporate vast human diversity into a unified world order of peace, prosperity, justice, and opportunity.

Degrees and Areas of Concentration

A Bachelor of Arts in Anthropology focuses on applied and theoretical skills. The anthropology faculty are actively involved in cultural anthropology, writing systems, archaeology, linguistic anthropology and biological anthropology research at home and abroad.

Cultural Anthropology

Faculty conduct research in St. Louis, Los Angeles, Ghana, South Africa, China, Japan, and Native American communities. Their research encompasses studies in health care choices of elder citizens, museum studies, gender and sexuality, body culture and sports, girl's culture, writing systems, culture diversity principles, educational anthropology and more. Opportunities abound for students to pursue diverse research experiences on a vast range of topics on human actions, beliefs and organization.

Archaeology

Faculty are engaged in regional and global research. Students may join faculty in excavations of local historic sites, and a Bronze Age Mycenaean palace in Greece. The program also has an archaeology lab and library with one of the largest collections of artifacts from eastern Missouri.

Biological Anthropology

Faculty members are active in the study of the behavior, ecology, and evolution of primates and of educational issues in the study of paleoanthropology (fossil record of human origins) and human variation. Students have conducted original research at the St. Louis Zoo. They can study Forensic Anthropology and work with the program's own collection of 19th century skeletal remains.

Student Experience

Students may work closely with faculty in designing their personal course of study and carrying out their own research projects in any of the above fields of study. Students have presented research results at professional meetings, in published papers, and at government and community agencies for use in planning and development. Students are encouraged to participate in the program's network of internships, providing an opportunity to practice newly acquired skills. As a capstone experience, all students, under faculty supervision, complete a significant independent research project, culminating in written and oral reports to the department students and faculty. The program encourages study abroad

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and has scholarship funds to assist. There is an active Association of Student Anthropologists that sponsors speakers and social activities.

Paid undergraduate positions are available on a competitive basis to anthropology majors as teaching assistants and faculty research assistants.

Minor in Anthropology

The minor in anthropology is designed to offer students a flexible introduction to the fundamentals of the discipline to complement their major field of study. A minor is advisable for anyone planning a career with intercultural or international dimensions, where knowledge of cultural systems, environments, values, and symbols is useful.

Certificate in Archaeology

The certificate in archaeology provides applied training in both laboratory and field methods to students who could be hired in the field of cultural resource management and historic preservation. Internships can be arranged with the UMSL archaeology lab or with a local institution.

Career Outlook

The B.A. in Anthropology equips the student for employment in almost any area in which a bachelor's degree is sufficient and a sensitivity to cultural values and diversity is important. Graduates have found employment as university professors and lawyers and in archaeology research programs, urban development, planning programs, health care delivery, human services, business, government service, teaching, computer systems design, and university administration. Anthropology is excellent preparation for graduate and professional training in administration, the helping professions, development work, law, environmental studies, international and human resource areas of business, and in many other areas, depending upon individual interests. Many UMSL anthropology graduates have gone on to advanced training in master's, doctoral, and professional programs in respected universities around the country. For more career information, contact the program at 314-516-6020 for an appointment to talk with an appropriate faculty member or to request an information packet.

Undergraduate Studies General Education Requirements

Majors must satisfy the university and college general education requirements (p. 28). Any foreign language may be used to meet the language requirement for the B.A. degree.

Degree Requirements Bachelor of Arts in Anthropology

All required courses for the major must be completed with a grade of C- or better. The following courses are required:

ANTHRO 1005 (p. 52)	Introduction To Biological Anthropology	4
ANTHRO 1011 (p. 52)	Introduction To Cultural Anthropology	3
ANTHRO 1019 (p. 52)	Introduction To Archaeology	3

ANTHRO 3202 (p. 52)	History and Theory of Anthropology	3
ANTHRO 4315 (p. 52)	Professionalism and Practice In Anthropology	3
Select three course	es in Anthropology numbered 2000-2999 ¹	9
Select three course to ANTHRO 3202 (es in Anthropology numbered 3200-3299 in addition (p. 52).	9
Select one of the fo	ollowing:	3
ANTHRO 4000 (p. 52)	Ethnographic Field Research Methods	
ANTHRO 4100 (p. 52)	Field Methods in Archaeology	
ANTHRO 4200 (p. 52)	Field Methods in Biological Anthropology	
Select 2 additional numbered 4000-43	credit hours of methods courses in Anthropology 811.	2

The three courses must come from two different subfields: Cultural Anthropology, Archaeology, or Biological Anthropology.

Total Hours

The total number of hours required for the major is 39. Students may elect to take up to, but not to exceed, 12 additional hours in anthropology courses of their choice.

At the end of the program, students should have these competencies:

- Discipline-Specific (Content) Knowledge
 Graduates will be able to discuss the importance cultural diversity,
 thus preparing them to function in multicultural or international settings.
 Graduates will understand the common evolutionary origins that unify
 all cultural differences, as well as human biological variation within our
 shared humanity. Graduates will develop in-depth knowledge of the
 culture of a particular region of the world.
- Communication Skills
 Graduates will develop social science writing skills, including writing
 of a research proposal for a grant agency and a substantial research
 report. Graduates will develop oral presentation skills, including
 presenting a formal research report.
- Information Management/Quantitative Skills
 Graduates will master research methods in one of the subfields
 of anthropology (cultural anthropology, biological anthropology,
 archaeology). Graduates will learn to design and conduct an original
 research project, working in close cooperation with faculty.
- Valuing/Ethics/Integrity
 Graduates will be able to discuss and articulate the professional ethics and codes of conduct of the discipline.
- Critical Thinking Skills
 Graduates will develop the ability to apply anthropological concepts in
 performing critical analysis of broad historical trends and complex social
 issues. Graduates will be able to value cultural diversity, thus preparing
 them to function in multicultural or international settings.
- Application/Internship Skills
 Graduates will gain hands-on experience in the application of anthropological concepts to real life and will be able to apply anthropological theory to real-life experience.

Residency Requirement

Undergraduate majors must complete a minimum of 17 hours of upperlevel (3000-5000) Anthropology courses in residence, including:

ANTHRO 3202 History and Theory of Anthropology
(p. 52)

ANTHRO 4315 Professionalism and Practice In Anthropology
(p. 52)

Select one of the following:

ANTHRO 4000 Ethnographic Field Research Methods
(p. 52)

ANTHRO 4100 Field Methods in Archaeology
(p. 52)

ANTHRO 4200 Field Methods in Biological Anthropology
(p. 52)

Select two additional courses numbered from ANTHRO 3000-4999.

Anthropology Minor

There are three possible emphases in the minor: Cultural Anthropology, Archaeology, and Biological/Forensic Anthropology.

Total Hours	15-1
ANTHRO 4315 Professionalism and Practice In Anthropology (p. 52)	3
Anthropology numbered 4000-4999 in addition to ANTHRO 4315 (p. 52)	3
Anthropology numbered 3200-3299	3
Anthropology numbered 2100-2199	3
ANTHRO 1005 Introduction To Biological Anthropology (p. 52)	
ANTHRO 1019 Introduction To Archaeology (p. 52)	
ANTHRO 1011 Introduction To Cultural Anthropology (p. 52)	
Select one of the following:	3-4

A minimum of 15 anthropology credit hours is required. All required courses for the minor must be completed with a grade of C- or better.

Archaeology Certificate

ANTHRO 1019 Introduction To Archaeology (p. 52)	3
ANTHRO numbered 2100-2199 with an archaeological emphasis.	3
ANTHRO numbered 3200-3299 with an archaeological emphasis.	3
Archaeology methods courses at the 4100-4199 level, including ANTHRO 4100 (p. 52), Field Methods in Archaeology.	5
Select one of the following:	3
ANTHRO 4326 Internship In Archaeology (p. 52)	
ANTHRO 4312 Cultural Resource Management And Historic (p. 52) Preservation	
Total Hours	17

Courses

ANTHRO 1005 Introduction To Biological Anthropology: 4 semester hours

Topics include evolutionary theory and its development, the evolution/ creationist debate. Mendelian & population genetics, the evolutionary place of humans within the animal kingdom, anatomical and behavioral characteristics of primates, fossilization, primate evolution, the human evolutionary fossil record, biological variability in modern humans, race as a biological concept, and applied biological anthropology. In addition to 3 hours of lecture, 1 hour per week is spent in lab classifying ancient human fossils, observing monkeys and apes at the zoo, and doing other projects. Satisfies the Natural Science and Mathematics (SM) breadth of study requirement.

ANTHRO 1006 Introduction To Non-Human Primates: 3 semester hours

As a general survey of our closest living relatives, this course introduces the ecology, cognition, communication, social and sexual behavior, and fossil history of non-human primates. The work of well-known primatologists is used to illustrate various aspects of field research. Conservation status of primates in the wild is assessed as well as current threats to survival.

ANTHRO 1011 Introduction To Cultural Anthropology: 3 semester hours

Cultural anthropology is the study of human beings as creatures and creators of society. This course is an introduction to that study which aims to demonstrate how the basic concepts and techniques developed by cultural anthropologists help us to understand societies of various degrees of complexity, including our own. We will consider topics such as language, kinship, gender, ethnicity, economics, politics, religion, and social change in a broad comparative framework. Major goals are an increased awareness of the social and cultural dimensions of human experience; the diversity and flexibility of human cultures; and processes of intercultural communication and conflict. This course satisfies the Cultural Diversity Requirement.

ANTHRO 1019 Introduction To Archaeology: 3 semester hours
Archaeology is a subfield of anthropology that studies past human
15-16 societies from their material remains. Explores the development of archaeology as a scientific discipline. Archaeological methods and theories will be explained using case studies from the continents of Africa, Asia, Australia, Europe and the Americas. Satisfies the Cultural Diversity requirement.

ANTHRO 1021 The Body In Culture: 3 semester hours

This course will compare uses of the body as a social signifier in Western and non-Western cultures. It will explore how culture shapes the images, uses and meanings of the human body. It concentrates on different historical and beliefs in five areas: how the body works; sex and gender; eating manners and food; pain and punishment; beauty and bodily mutilation. This course satisfies the Cultural Diversity requirement.

ANTHRO 1025 World Cultures: 3 semester hours

An ethnographic survey of the major culture areas of the world (Africa, North and South America, Europe and Oceania). Satisfies the Cultural Diversity requirement.

ANTHRO 1033 World Archaeology: 3 semester hours

Discusses some of the greatest discoveries in archaeology from prehistoric cultures to ancient civilizations of Africa, Asia, Australia, Europe and the Americas. Archaeological examples may include early human origins at Olduvia Gorge in Tanzania, the pyramids of ancient Egypt, the Maya and Aztec of Mexico, the rise of civilization in Mesopotamia, England's Stonehenge, the Roman city of Pompeii, upper Paleolithic cave paintings in France and Spain, and American Indian pueblos of the Southwest. This introductory course is designed for non-anthropology majors, or for those who are considering the major. Satisfies the Cultural Diverstiy requirement.

ANTHRO 1037 The Wonders of Greece: Introduction to Greek History and Culture: 3 semester hours

Same as HIST 1037. Our democracy and culture have been heavily influenced by Greek civilization. This course will introduce students to the culture and civilization of Greece in order to provide a better understanding of our own society. The course will cover the political and military history, art, literature, philosophy, and science of Greece from prehistoric to modern times, with special emphasis on Greek civilization's enduring democratic and cultural ideals. The course will include screening of films and use of online resources.

ANTHRO 1038 Byzantine History and Culture: 3 semester hours

Same as HIST 1038. This course introduces the history of the Byzantine Empire from the fourth through the fifteen centuries. Covering more than a millennium of history, this course focuses on selected aspects of the empire's history, while adhering to a basic chronological frame. We will examine religious developments (monasticism, theological controversy, the Catholic-Orthodox Schism); military and cultural interactions with neighbors (Crusaders, Islam); and Byzantine culture, particularly art, literature, and architecture.

ANTHRO 1041 Sex And Gender Across Cultures: 3 semester hours

This course considers womanhood, manhood, third genders, and sexuality in a broad cross-cultural perspective. The focus of the course is on the diverse cultural logics that separate females, males, and sometimes third genders into different groups in different societies, with the male group usually being the more prestigious one. Focusing on the indigenous nonWestern cultures, this course examines gender roles and sexuality within the broader cultural contexts of ritual and symbolism, family, marriage and kinship, economy, politics, and public life. This course will help students understand what it is like to be male or female in non-Western cultures. This course fulfills the Cultural Diversity Requirement.

ANTHRO 1052 The Olympic Games: Ideals And Reality: 3 semester hours

What would the ancient Greeks think of the modern Olympic Games? In this course, we examine whether the Olympic Games are living up to their ancient Greek ideals. We begin studying the history and philosophy of the ancient Olympic festival in an effort to understand the personal, educational, and political nature of the Olympic ideal. Next we examine the historical and contemporary reality of the modern Games from the perspective of athletes, spectators, and socity at large. Based on these accounts, we critically evaluate the Games' success and failure with respect to their ideals. Finally, we develop constructive solutions to the problems we identify, suggesting practical ways to revise the Olympic ideals and/or improve Olympic reality.

ANTHRO 1091 Introductory Topics In Anthropology: 3 semester hours

This course features special and current topics at the introductory level in the areas of social, cultural and physical anthropology and archaeology. The course examines the basic concepts and provides an understanding of the development of new trends and areas of study in the field of Anthropology. Topics will focus on the comparative study of non-Western cultures such as ecological practices in tribal societies; religious practices in prehistoric cultures; the roles of women across cultures; etc. Topics may vary and the course may be repeated provided topic is different. This course satisfies the Cultural Diversity requirement.

ANTHRO 1095 Brief Overview Of The Four Fields Of Anthropology: 1 semester hour

Through the use of videos, readings, and the online course management system, this course provides a brief overview of the four traditional fields of anthropology: biological, archaeological, cultural, and linguistic anthropology. This course is designed for video instruction and offers minimal direct interaction with the instructor.

ANTHRO 1163 Disagreement, Difference, Diversity: 6 semester hours Same as PHIL 1163. This interdisciplinary course will combine material from philosophy, anthropology, and sociology to examine the ways we encounter and accommodate disagreement in our daily lives. The unifying thread is our ability to deal with various sorts of opposition: differences of opinion, differences in practice, and differences in how we construct and address both biological and cultural variation. The course will combine units on informal logic and applied ethics from philosophy together with units on the social construction of difference and the understanding of human diversity from anthropology and sociology.

ANTHRO 1710 Native American Literature: 3 semester hours

The course surveys the literature of American Indians from its oral tradition of myth, legend, song, and oratory through its modern forms. The course satisfies the ethnic literature requirement for Missouri State Certification in Secondary Education and the College of Arts and Sciences Cultural Diversity requirement.

ANTHRO 2035 Ancient Greek Civilization And Culture: 3 semester

A survey of the history, language, literature, art, science, and philosophy of the ancient Greeks from prehistory to the Roman conquest. It covers the glamorous Minoan-Mycenaean civilization, the rise of classical Greek civilization and the golden age, the history of the city states such as Athens and Sparta, and the Hellenistic period under Alexander the Great and his descendants. Examines the nature of the ancient Greek language, surveys literary classics such as the liad and the Odyssey, and describes the archaeology of Greek myths based on the ongoing UM-St. Louis archaeological project in Greece. Discusses the rise of humanism, the ancient Olympic Games, and the legacy of ancient Greece in Western civilization.

ANTHRO 2100 Languages and World View: 3 semester hours

Same as FGN LANG 2100 and SOC 2200 Prerequisites: Completion of two semesters of one foreign language at the college level. This course investigates the extent to which peoples' linguistic and cultural background informs their understanding of the world. Experts on a variety of major Western and non-Western languages will introduce students to differences in ideas about time, space, human relationships, and other issues based on language. The course will also analyze common cultural misunderstandings among native speakers of English and speakers of other languages.

ANTHRO 2105 Human Variation: 3 semester hours

This course will look at the variation that exists within our own species, both between and within populations. It will investigate the evolutionary and genetic basis of human variation, as well as its diversity, adaptive significance, and distribution. Topics covered will include: body shape and physiology, blood groups, susceptibility to disease, and skin color. It will survey historical attempts to classify humans into different "races"; assess definitions of race as a solely cultural construct; and critique attempts to link race, intelligence and performance.

ANTHRO 2109 Archaeological Field School: 3-6 semester hours

Prerequisites: Consent of instructor. Introduction to field methods in archaeology and to the techniques of recording, storing, analyzing, and reporting archaeological findings. Experience is gained through participation in a field research project including excavation and survey projects. Emphasis is placed upon research design and implementation and upon the use of archaeological data in describing and explaining human behavior.

ANTHRO 2111 Cultures Of East Asia: 3 semester hours

An ethnographic and historical survey of the various people of East Asia including Japan, China, North and South Korea, Hong Kong and Macau. Includes an examination of the varying cultural and social developments within and through the historical, geographical, and cultural environments. This course satisfies the Cultural Diversity requirement.

ANTHRO 2114 Cultures Of The Near And Middle East: 3 semester hours

A study of the cultural diversity and unity of the peoples of the Near and Middle East. Emphasis on historical and ethnological relationships, social and political structure, religious beliefs and contemporary problems. This course satisfies the non-Euro-American requirement.

ANTHRO 2117 Greek History And Culture: 3 semester hours

Same as HIST 2117. Greek civilization has had a deep impact on contemporary society in art; social; political; and economic organization; philosophy; law; medicine; and science. This course covers major aspects of Greek history and culture from antiquity to the present. It considers the major political and military events of Greek history, as well as important aspects of Greek culture, including sports and the history of the Olympic Games, literature, philosophy, and mythology.

ANTHRO 2118 Modern Greek History and Culture: 3 semester hours Same as HIST 2118. A history of Modern Greece, from the fall of Constantinople (1453) to the present, with an emphasis on social, cultural,

and political developments. The course will provide a chronological framework of events and it will utilize art, literature, and folklore, along with traditional historical sources, to gain a better understanding of the richness of modern Greek history and culture.

ANTHRO 2120 Native Peoples Of North America: 3 semester hours

A survey of Native Peoples of North America including the prehistory, ethnographic and linguistic groupings, social organization, and cultural systems of these cultures.

ANTHRO 2121 Native American Spirituality: 3 semester hours

This class will look at the important role of spirituality in American Indian ways of life. This course covers indigenous peoples of the United States and Canada, from prehistoric times to the present. It will look at traditional worldviews and their preservation in contemporary times, including the use of symbols to define tribal identities; religious rituals and practices; and the relationship between humans, animals, and nature. Satisfies Cultural Diversity requirement.

ANTHRO 2123 Cultures Of Oceania: 3 semester hours

An introduction to the original cultures and peoples of the South and Western pacific: New Guinea, Australia, New Zealand, Samoa, Hawaii, Easter Island, etc. Focus is on art, religion, language, relationships to the environment, economics, politics social groupings, and how these intertwine to form distinctly adaptive cultures in one of the least understood regions of the world. This course satisfies the Cultural Diversity requirement.

ANTHRO 2124 Cultures Of Africa: 3 semester hours

A basic ethnographic survey of African cultures, with attention to social groupings, tribalism, religion, language social change, and the ecological relationship between humans and nature. This course satisfies the Cultural Diversity requirement.

ANTHRO 2126 Archaeology Of Greater St Louis: 3 semester hours

Discussion of Ice Age hunters and gatherers, moundbuilders, fur traders, farmers and industrial workers from the history of the Greater St. Louis Community. The physical testimony to their lives remains buried beneath city streets and buildings. Archeology is our link to this cultural legacy. Through use of archeological data and historical sources, this class will explore human social and cultural developments in St. Louis.

ANTHRO 2131 Archaeology Of Missouri: 3 semester hours

An introduction to the prehistoric American Indian cultures of Missouri and adjacent areas from 20,000 years ago to the coming of the Europeans. Examines the development of prehistoric cultures in Missouri from small bands of hunters and gatherers to moundbuilding, agricultural socieites and discusses the decline of indigenous cultures as they came into contact with European civilization. Satisfies the Cultural Diversity requirement.

ANTHRO 2132 Archaeology Of North America: 3 semester hours

Examines the archaeological record of human developments throughout prehistoric North America. Topics of discussion include the origins of human culture in America, the processes of prehistoric cultural development in the different regions of the continent, and archaeological approaches to explaining the behavior of North America's prehistoric inhabitants. Satisfies the Cultural Diversity requirement.

ANTHRO 2134 Archaeology Of The Inca, Aztec, And Maya: 3 semester hours

Provides an overview of human social and cultural developments in Mesoamerica and Andean South America from the first settlements over 20,000 years ago to the Spanish conquest. Focuses on events leading to and including the establishment of Classic Mayan and Aztec societies, and discusses changes that led to what was perhaps the largest nation on earth for its time, the Inca. Satisfies the Cultural Diversity requirement.

ANTHRO 2173 Archaeology And Cultures Of The Biblical World: 3 semester hours

A survey of the cultures of the Old Testament World with attention to their evolution, internal and external relationships, as well as their diverse religious, social, economic, and political institutions. The instructor will teach skills in evaluating popular vs. scientific and historical evidence of Biblical events. This course satisfies the Cultural Diversity requirement.

ANTHRO 2191 Special Topics In Non-Western Culture: 3 semester hours

This course focuses on a specific non-western culture, or geographically related groups of cultures. Ethnographic and/or archaeological cultures are chosen and their ecological economic, social, religous, cosmological, political, ethnic, linguistic and other cultural domains are examined. Students are exposed to basic concepts and knowledge for understanding diverse cultures in their historical and/or contemporary contexts of development and relationship. Topics will vary. Satisfies Cultural Diversity Requirement.

ANTHRO 2192 Anthropological Perspecitves on Western Culture: 3 semester hours

This course focuses on a specific Western culture or geographically-related group of cultures utilizing ethnographic and/or archaeological sources. Ecological, economic, social, political, ethnic, religious, linguistic and cultural domains will be examined. Students are exposed to basic anthropological concepts for understanding diverse cultures in their historical and/or contemporary contexts. Topics will vary.

ANTHRO 3202 History and Theory of Anthropology: 3 semester hours

Prerequisites: ANTHRO 1005, ANTHRO 1006, ANTHRO 1011, or ANTHRO 1019. An overview of the history and theory of anthropology from the Victorian era to today with an emphasis on putting theory into practice. The purpose of the course is to help students understand where anthropology has come from and where it may be going, and to teach students how to apply theory to specific questions and problems.

ANTHRO 3209 Forensic Anthropology: 4 semester hours

Same as CRIMIN 3209. Prerequisites: ANTHRO 1005, or BIOL 1102, or junior standing, or consent of instructor. Students learn basic dental and skeletal anatomy and the methods used by biological anthropologists and archaeologists to collect and analyze human skeletal remains, including how to determine age and sex of skeletal ramains, identify ethnic markers, determine stature and handedness, and identify the presence of trauma and/or pathology. Also covers the role of the forensic anthropologist in crime scene investigations and human rights issues. In the weekly lab section students will have an opportunity for hands-on application of techniques to analyze skeletal remains.

ANTHRO 3210 Applied Anthropology: 3 semester hours

Prerequisites: ANTHRO 1011, or introductory course in another social science, or consent of instructor. A description and analysis of the methods, principles and use of anthropology in solution of practical problems associated with the changing conditions of our times. The course will examine a wide variety of cross-cultural case studies.

ANTHRO 3211 Language and Society: 3 semester hours

Same as SOC 3211. Prerequisites: ANTHRO 1011, or SOC 1010 or consent of the instructor. Variable topics in the subfield of linguistic anthropology will be explored. The focus of the course may include study of communication as part of our evolutionary heritage, the use of language as an index of social and cultural change, language and gender, or other topics.

ANTHRO 3212 Medical Anthropology: 3 semester hours

Prerequisites: ANTHRO 1011, or introductory course in another social science or consent of instructor. An examination of the growing interaction between anthropology and medicine, and the increasing use of anthropologists in medical and health-care settings. In addition to teaching current theory in medical anthropology, the course focuses on anthropologically-based skills essential to those working in health-related fields.

ANTHRO 3214 Writing Systems of the World: 3 semester hours

ANTHRO 1011 or consent of instructor. This course is an introduction to the comparative study of writing systems from around the world. It explores the origin and development of Sumerian cuneiform, Mayan glyphs, Egyptian hieroglyphs, Chinese characters, alphabets and syllabaries. It encompasses time periods from the decipherment of ancient languages to the intersections of writing and culture found in the contemporary world.

ANTHRO 3215 Aging Across Cultures: 3 semester hours

Same as GERON 3215. Prerequisites: ANTHRO 1011 or PSYCH 1003 or SOC 1010, or consent of instructor. This course examines the wide ranging variability in the roles of older people across different cultures and the effects these have on older people, their families, and their societies.

ANTHRO 3216 Cognition Across Cultures: 3 semester hours

Prerequisites: ANTHRO 1011 or introductory course in another social science, or consent of instructor. This course explores cognition - perception, knowledge and thought - as a set of social and cultural processes. An introduction to methods for understanding the human mind in context. It will cover key debates, including: cross-cultural variation in thought processes (cognitive relativity vs. psychic unity), the relation between physiology and consciousness, ethnoscience, the social and cultural construction of reality, the different ways that social contexts affect the way people think, the implications of the way knowledge is distributed across society, the social and cultural basis of logic.

ANTHRO 3220 Social Statistics: 3 semester hours

Same as SOC 3220. Prerequisites: SOC 1010 or ANTHRO 1011 and MATH 1020 or MATH 1030. Issues and techniques of statistical analyses relevant to quantitative social science research, e.g. elementary probability, measures of central tendency and dispersion, measures of relationships including linear regression and correlation, inferential and nonparametric statistics. The course includes an introduction to computer-based statistical analysis.

ANTHRO 3225 Ritual, Death And Sports: Archaeology Of Greek Mythology: 3 semester hours

Prerequisites: ANTHRO 1019 or ANTHRO 1011 or consent of instructor. Since the beginning of our existence, humans have pondered the mysteries of life and death and have strived to find meaning in a constantly changing world. In Western civilization, Greek mythology and religion represent humanity's earliest attempts to deal with the greater forces that affect our lives, which found expression in the great religious and athletic festivals, such as the Olympic Games. We will study the myths, rituals, religious beliefs of the ancient Greeks and how these were expressed in sports and art, in order to get a glimpse of the supernatural. The sources of our exploration are two: the fascinating archaeological discoveries of ancient Greek sites and relevant readings from the ancient Greek literature.

ANTHRO 3226 Origins Of Farming And Herding: 3 semester hours

Prerequisites: ANTHRO 1019 or consent of instructor. This course surveys the archaeological evidence for the domestication of plants and animals from around the world and the accompanying revolution in social organization, which continues to influence the modern world. It discusses key issues, concepts, and debates. It examines case studies of early domesticated plants and animals (e.g., wheat, maize, cattle, dogs, and many others) and regional studies of the development of farming and herding in ancient Egypt, Mesopotamia, China, the Americas, and Europe.

ANTHRO 3227 Monsters & Victims: Women Dramatis Personae in Greek Tragedy & Contemporary Drama: 3 semester hours

Prerequisites: ANTHRO 1011, or introductory course in another social science, or consent of instructor. This course explores female dramatic figures in ancient Greek tragedies that represent women either as victims and/or monsters. From Iphigenia, Alcestis, and Hecuba to Clytemnestra, Phaedra and Medea, it analyzes issues such as the role of sex, gender, female sexuality, ritual and domestic violence in the image-making of women as either scapegoats or monsters by the major Greek tragedians, particularly Euripides. It explores contemporary adaptations by several women playwrights in light of theoretical readings by feminist critics.

ANTHRO 3228 People and Plants: 3 semester hours

Prerequisites: ANTHRO 1011 or ANTHRO 1019 or consent of instructorThis course is designed to introduce students to complex relationships between people and plants. We will focus on how plants are perceived, managed, and used across human societies. Topics span the ages and include collection of wild plants and "Stone Age" diets; the origins of agriculture in Ancient Egypt, Mesopotamia, China, and the Americas; the development of crops and GMOs; industrial agriculture; organic gardening; and the wilderness-to-table movement. While emphasis will be on food plants, we will also discuss the use of plants as medicines, cosmetics, dyes, and construction materials.

ANTHRO 3229 Economic Archaeology And Anthropology: 3 semester hours

Prerequisites: ANTHRO 1011 or ANTHRO 1019 or consent of instructor. Course examines economic organization and behavior in a crosscultural context. It looks at the various ways anthropologists have approached the study of economy, and explores how cultural factors such as relations of power, gender, kinship, and ideology affect economic organization in ancient and modern societies. Most of the course will focus on preindustrial societies (including hunter-gather, tribal, and complex societies), and will address issues of subsistence strategies, craft production and specialization, trade and exchange, money, and markets. It will also briefly explore how modern communities around the globe are responding to contemporary processes like capitalism and globalization.

ANTHRO 3235 Women In Subsaharan Africa: A Contemporary Perspective: 3 semester hours

Prerequisites: ANTHRO 1011, or introductory course in another social science, or consent of instructor. Examines important traditional concerns of anthropologists such as the nature of kinship obligation and privilege; gender as a basis for the division of labor; social organization for formal and informal networks; and ritual and ceremony. In addition we look closely at the changing role of African women, as related by African women testing the very limits of what is "socially and culturally acceptable." The roles women continue to play in politics, comprehensive development (i.e. cultural and economic), and evolving social structures are reviewed to gain an understanding of the historical and contemporary mandates for their social action. This course fulfills the Cultural Diversity requirement.

ANTHRO 3236 Sex Trafficking in Cross-Cultural Perspective: 3 semester hours

Prerequisites: ANTHRO 1041, GS 2150 or GS 2102 or consent of instructor. This course introduces the history of and current issues in the international sex industry, including human trafficking, slavery, and prostitution in Europe, Asia, Africa, South America, and North America. It will evaluate the power structures (political, economic, and military institutions) and the process, organization and structure of the industry within the context of nationality, ethnicity, and class, with particular emphasis on voluntary (immigration) and forced (displacement) population migration. Finally, it will look at current legislation and methods to control this growing problem, especially in the United States.

ANTHRO 3237 Japanese Popular Culture: 3 semester hours

Prerequisites: ANTHRO 1011. This course will explore Japanese culture and society through investigation of a range of topics related to history, social diversity, subcultural identity, gender, demographic, change, and media. In addition to lectures, we will study primary sources from Japanese culture, including biographies, fiction, films, anime, manga, television, music, magazines, and other media. The study of Japanese popular culture is ideal for gaining an understanding of theoretical issues such as the construction of gender and sexuality, identity formation, nationalism, emerging youth cultures, and the processes of globalization and localization. Satisfies University cultural diversity requirements.

ANTHRO 3255 Oral History And Urban Culture In St. Louis: 3 semester hours

Prerequisites: ANTHRO 1011 or instructor's consent. This course involves students in background research and active fieldwork in urban anthropology within the metropolitan area. The focus will be on learning and applying oral history techniques in the city of St. Louis and its neighborhood. They will learn fieldwork methodologies and how to conduct social, cultural, and historical research in preparation for fieldwork. This includes learning to research, conduct, and process interviews. They will also learn to work in teams to construct a group project to be presented to the class.

ANTHRO 3270 Human Ecology, Cultural Collapse, and Sustainable Developments: 3 semester hours

Prerequisites: ANTHRO 1019 or consent of the instructor. Human interactions with the natural environment will be explored by reviewing approaches, concepts, and tools from ecological anthropology and archaeology. Case studies based on archaeological, ethnographic, and ethnological data will be analyzed and discussions expanded to include information about past and present, sustainable human-environmental interactions, policies, and contributing institutions.

ANTHRO 3290 Advanced Topics In Archaeology: 3 semester hours Prerequisites: ANTHRO 1019, or consent of instructor. Selected topics in archeology with a strong theoretical and methodological approach. Requires substantial reading and writing. May be repeated with consent of department.

ANTHRO 3291 Current Issues In Anthropology: 3 semester hours
Prerequisites: ANTHRO 1011, or introductory course in another social
science, or consent of instructor. Selected topics in social, cultural and
physical anthropology, with emphasis on current issues and trends in the
field of anthropology. May be repeated provided topic is different.

ANTHRO 3292 Current Issues In Anthropology: 4 semester hours
Prerequisites: ANTHRO 1011, or introductory course in another social
science, or consent of instructor. Selected topics in social, cultural, and
physical anthropology, with emphasis on current issues and trends in
the field of anthropology. Includes a lab component. May be repeated
provided topic is different.

ANTHRO 4000 Ethnographic Field Research Methods: 3 semester hours

Prerequisites: ANTHRO 1011, SOC 1010, or consent of Instructor. Ethnographic field research is the basis of cultural anthropological inquiry. This course emphasizes hands-on training in the collection and analysis of ethnographic data, including participant observation, taking and managing field notes, key informant interviewing, content analysis and the preparation of ethnographic field reports.

ANTHRO 4005 Special Research Methods in Cultural Anthropology: 1-3 semester hours

Prerequisites: ANTHRO 1011 or consent of instructor. Advanced instruction in specialized technical and analytical skills and methods used to conduct research in cultural anthropology and/or linguistic anthropology. May be repeated provided the topic is different.

ANTHRO 4100 Field Methods in Archaeology: 3 semester hours

Prerequisites: ANTHRO 1019 or consent of instructor. Advanced instruction in archaeological field methods including techniques of recording, storing, analyzing, and reporting archaeological findings. Experience is gained through participation in excavations and/or surveys. Emphasis is placed upon research design and implementation and the use of archaeological data in describing and explaining human behavior.

ANTHRO 4105 Special Research Methods in Archaeology: 1-3 semester hours

Prerequisites: ANTHRO 1019 or consent of instructor. Advanced instruction in specialized technical and analytical skills and methods used to conduct research in archaeology. May be repeated provided the topic is different.

ANTHRO 4160 Geographical Information Systems in Anthropology and Sociology: 4 semester hours

Same as SOC 4160. Prerequisites: ANTHRO 1005, or ANTHRO 1011, or ANTHRO 1019, or SOC 1010, or consent of instructor.Instruction in use of GIS software to record and analyze findings in archaeology, biological anthropology, cultural anthropology, and sociology. Emphasis is placed upon research design, development of data collection methodologies, and the use of GIS in describing and explaining human behavior and its relationship to the physical environment.

ANTHRO 4200 Field Methods in Biological Anthropology: 3 semester hours

Prerequisites: ANTHRO 1006, SOC 3220 or equivalent, or consent of instructor. Course material based on primate behavior, demographics, and morphology. Research techniques for ethological and primatological studies, including the design of research protocols, development of data collection methodologies, analysis of morphological and behavioral data, and the scientific description of findings. Students are required to conduct observations of primates at the St. Louis Zoo and participate in the Undergraduate Research Symposium.

ANTHRO 4205 Special Research Methods in Biological Anthropology: 1-3 semester hours

Prerequisites: ANTHRO 1005 or consent of instructor. Advanced instruction in specialized technical and analytical skills and methods used to conduct research in biological anthropology. May be repeated provided the topic is different.

ANTHRO 4301 Ideas And Explanations In Anthropology: 3 semester hours

Prerequisite: One of ANTHRO 3202, ANTHRO 3209, ANTHRO 3210, ANTHRO 3212, ANTHRO 3216, ANTHRO 3229, ANTHRO 3230, or ANTHRO 3244. The theory course in the capstone sequence for Anthropology majors. Students learn to identify and synthesize relevant theories; write them up in the form of a comprehensive literature review; and apply them constructively to the collection, analysis, and explanation of data. Majors should take this course concurrently with ANTHRO 4308, ANTHRO 4310, or ANTHRO 4311.

ANTHRO 4305 Special Research Methods in Anthropology: 1-3 semester hours

Prerequisites: ANTHRO 1005 or ANTHRO 1011 or ANTHRO 1019 or consent of instructor. Advanced instruction in specialized technical and analytical skills and methods used to conduct research in anthropology and may combine skills from cultural anthropology, linguistic anthropology, archaeology, and/or biological anthropology. May be repeated provided the topic is different.

ANTHRO 4307 Community Based Research in Anthropology: 3 semester hours

Prerequisites: Junior standing, ANTHRO 1011, ANTHRO 3202, and completion of junior-level writing requirement. An advanced course in qualitative/ethnographic modes of inquiry, building on research and analytical skills learned in previous courses. Some quantitative methods may supplement the research when appropriate. Students experience the process of discovery, representation, presentation, and justification based on fieldwork and/or archival research. The focus is on applying anthropological knowledge to practical issues faced by communities and institutions in the St. Louis area. May be repeated provided the topic is repeated.

ANTHRO 4308 Practicum In Cultural Research Methods: 3 semester hours

Prerequisites: One course in statistics and ANTHRO 1011 or consent of instructor. (With computer laboratory). Emphasizes hands-on training in techniques for both the collection and analysis of ethnographic data, including participant observation, selection of ethnographic informants, key informant interviewing, and more systematic methods such as survey research. The use of computer programs for the development of protocols to collect, analyze and display data will be covered in lab.

ANTHRO 4309 Archaeological Field School: 3-6 semester hours

Prerequisites: Consent of instructor. Advanced methods in field archaeology and laboratory analysis. Emphasis is placed on sampling, the use of theory in guiding field and laboratory work, advanced field techniques, and speciality analysis. Opportunities are provided for the development of field and laboratory leadership skills. Independent research is encouraged.

ANTHRO 4310 Laboratory Methods In Archaeology: 3 semester hours

Prerequisites: ANTHRO 1019, SOC 3220 or equivalent, or consent of instructor. An advanced laboratory analysis and curation methods class. The emphases are 1) mastery of general lab methods and procedures, and 2) development of independent analysis skills in one or more specialty areas such as lithics, ceramics, computer graphics, statistical methods, paleoethnobotany, experimental analysis, and soils.

ANTHRO 4312 Cultural Resource Management And Historic Preservation: 3 semester hours

Prerequisites: ANTHRO 1019 or Consent of Instructor. This course will introduce proper practices of cultural resource management and historic preservation. It provides a technical and theoretical bridge between anthropological archaeology and its application to the management of resources. Among the issues covered will be relevant legislation, the phased approach to archaeological and historical research, state and federal review procedures, proposal writing, interacting with clients, consulting with native peoples, and public and professional ethics and standards. This course will provide hands-on experience. Because one of the skills most sought by project managers and employers is writing competence, it will be writing intensive.

ANTHRO 4315 Professionalism and Practice In Anthropology: 3 semester hours

Prerequisites: Senior standing and consent of Instructor. The capstone course for anthropology majors, ideally taken in the final semester of the senior year. Students will learn to apply the anthropological knowledge and ethics gained in previous courses within professional settings. Skills include developing a CV; applying to graduate schools and jobs; making oral presentations; and writing grant proposals, public policy recommendations, consulting reports, and diplomatic communications. Final senior exit project will be reviewed by Anthropology faculty members.

ANTHRO 4316 Senior Research Project: 3 semester hours

Prerequisites: Senior standing and consent of the instructor. For undergraduates who have excelled in their coursework and wish to conduct original research. Students will work with a faculty member with expertise relevant to the research topic. This course offers students the opportunity to build upon strong research, analytic and writing skills. Completion of this course will result in the writing of a thesis, publication of an article, presentation at a professional meeting, or other work that exemplifies high achievement.

ANTHRO 4325 Internship In Cultural Anthropology: 1-3 semester hours

Prerequisite: Recommendation of major advisor. Students will be assigned an internship on recommendation of their advisor. Internships will consist of a period of study, observation, and training in an appropriate public or private institution, business, or government office. Cultural Anthropology internships are aimed at providing students with opportunities to learn to apply their knowledge of social and cultural process and diversity to practical situations in the market place of ideas, goods, and services. Specific placements will be selected to match student's interests and career goals.

ANTHRO 4326 Internship In Archaeology: 1-6 semester hours

Prerequisite: Recommendation of major advisor. Students will be assigned an internship on recommendation of their advisor. Internships will consist of a period of study, observation, and training in an appropriate public or private institution, business, or government office. Archaeology internships are aimed at providing students with opportunities to work with professional archaeologists in public and private research environments including laboratories and curation centers. Specific placements will be selected to match student's interests and career goals.

ANTHRO 4328 Internship In Museum Studies: 1-3 semester hours
Prerequisite: Recommendation of major advisor. Students will be assigned an internship on recommendation of their advisor. Internships will consist of a period of study, observation, and training in an appropriate museum or other exhibition oriented institution. Museum internships are aimed at providing students with opportunities to work with professional museologists to learn skills relating to areas such as exhibition, curation, public programming, research, and publication. Specific placements will be selected to match student's interests and career goals.

ANTHRO 4329 Internship In Physical Anthropology: 1-3 semester hours

Prerequisite: Recommendation of major advisor. Students will be assigned an internship on recommendation of their advisor. Internships will consist of a period of study, observation, and training in an appropriate institution, lab, or research setting related to forensics, primate behavior and biology, human genetics, population, environmental policy, and other domains related to physical anthropology.

ANTHRO 4350 Special Study: 1-3 semester hours

Prerequisite: Consent of instructor. Independent study through readings, reports, or field research. No student may take more than a cumulative total of 6 hours of Special Study.

ANTHRO 4391 Current Issues In Anthropology: 1-4 semester hours Prerequisite: ANTHRO 1011 or consent of instructor. Selected topics in social, cultural, and physical anthropology, with emphasis on current issues and trends in the field of anthropology. May be repeated. Nonmajors may register for ANTHRO 2191.

ANTHRO 5312 Cultural Resource Management And Historic Preservation: 3 semester hours

Prerequisite: Graduate standing or consent of instructor This course will introduce proper practices of cultural resource management and historic preservation. It provides a technical and theoretical bridge between anthropological archaeology and its application to the management of resources. Among the issues covered will be relevant legislation; the phased approach to archaeological and historical research; state and federal review procedures; proposal writing, interacting with clients; native peoples; the public and professional ethics and standards. This course will provide hands-on experience. Because one of the skills most sought by managers and employers is writing competence, it will be writing intensive.

ANTHRO 5440 Cultural Aspects Of Aging: 3 semester hours

Same as GERON 5440. Prerequisites: Graduate status or consent of the instructor. Focuses on the variety of solutions encountered in different sociocultural contexts for dealing with the problems, challenges and opportunities of growing old. It is organized around topics that are of concern to both anthropology and social gerontology: the status of the aged, intergenerational relations, aging in modernizing societies, ethnic dimensions of aging in complex societies, health in later life, death and dying. Both in-depth case studies and cross-cultural comparisons are examined in an effort to arrive at a culturally informed assessment of factors affecting aging and the aged in the United States.

ANTHRO 5592 The History of the Visual Arts in American Museums: 3 semester hours

Same as HIST 5592 and ART HS 5592. Prerequisites: Graduate standing and consent of instructor. This course is an introduction to selected topics in the history of museology, focusing on art and anthropology museums as sites for the interpretations of art and culture, and as contested meeting grounds for various views of history and culture.

ANTHRO 6135 Foundations Of Museology I: 3 semester hours

Same as ART HIST 6035 and HIST 6135. Prerequisites: Consent of Director of Museum Studies Program. Concepts for understanding museums in their social and cultural context; history of museums; museology and general social theory; information transfer vs. meaning-making models; museums and communities; the changing role of museums; museums as complex organizations; process models of museology.

ANTHRO 6136 Foundations Of Museology II: 3 semester hours

Same as ART HS 6036 and HIST 6136. Prerequisites: Consent of Director of Museum Studies Program. Audience-centered approaches to museology; visitor research and learning theory; philosophical and practical considerations in museum planning; the physical design of museums; creativity; exhibit and program development; collections and curation; the challenge of diversity; the future of museums.

ANTHRO 6137 Effective Action In Museums: 3 semester hours

Same as: ART HS 6037 and HIST 6137. Prerequisites: Consent of Director of Museum Studies Program. The nature of the work done in museums; how museums are organized to accomplish this work; professional roles and practices; technology and resources used by museums; skills for creative and effective leadership in project management and administration in museums; planning, flow charting, budgeting, team dynamics, and related skills. The course will include several site visits to area museums and guest lectures by a variety of museum professionals.

ANTHRO 6138 Museum Studies Master's Project: 4 semester hours
Same as ART HS 6038 and HIST 6138. Prerequisites: Consent of Director
of Museum Studies program. Research and writing/exhibit development on
a selected topic.

ANTHRO 6139 Practicum In Exhibit & Program Development: 3 semester hours

Prerequisites: Consent of Director of Museum Studies Program.

Development of exhibits and related education programs. Students work as teams with museum professionals to develop and implement an exhibit concept that integrates design, education, and marketing from the onset.

Methods in planning, flow charting, budgeting, team dynamics and related skills.

Languages and Cultures

General Information

Degrees and Areas of Concentration

Languages and Cultures in the Department of Anthropology, Sociology, and Languages offers course work in French, German, Japanese and Spanish, leading to the B.A. in Modern Language degree, and a field of concentration in each of these languages for students seeking the B.S. degree in education. In addition, the program offers courses in English as a Second Language, Arabic, Chinese, Ancient Greek, Modern Greek, and Latin.

Minors may also be earned in the department. For details, see specific requirements for the minor, which appear later in this section.

Study Abroad

Language students who have been at the University of Missouri-St. Louis at least one semester and have studied the language for at least one year may receive credits for formal study abroad. Students must present a list of language course descriptions from the institution abroad to receive prior consent of the department, and must present a transcript for evaluation upon return to receive credit for those courses. Exchange programs are available with several universities in foreign countries. For information, please contact the study abroad office.

Alumni Scholarship

Qualified junior and senior language majors may apply for the Modern Language Alumni Scholarship, which is renewable each semester on a competitive basis. For information, please contact the department.

Marcus Allen Memorial Scholarship

Qualified students of French may apply for the Marcus Allen Memorial Scholarship which is awarded on a competitive basis and must be used within one semester of the award. For information please contact the department.

Baldini Family Scholarship

Qualified full-time UMSL students pursuing a Modern Language and literature degree with teacher certification may apply for this scholarship which is awarded on a competitive basis and must be used within one semester of the award. For information, please contact the department.

Community College Scholarship

Qualified community college students may apply for the Modern Language Community College Scholarship to be applied for educational fees toward the enrollment in third semester or higher courses in French, German, Japanese, or Spanish. This scholarship must be used within one semester of the award. For information, please contact the department.

German Scholarships

Students of German may apply for the German Scholarship. Funds may be used toward educational fees for German courses during the following semesters or toward study abroad in a German-speaking country. For information please contact the German section coordinator

Departmental Honors

Candidates for departmental honors in Modern Languages must meet the following requirements:

- 1. Achieve a GPA of 3.5 in the major for all hours attempted beyond the first two semesters. (Language Courses 1001 and 1002)
- 2. Maintain an overall GPA of 3.0.
- 3. Successfully complete an honors thesis or project.

Undergraduate Studies General Education Requirements

Each language major must satisfy the general education requirements (p. 28) of the university and the general education requirements of the College of Arts and Sciences.

Specific Requirements or Restrictions

Students entering with no high school language units must enroll in Language 1001 or may enroll in Language 2115. Language 2115 (a, b, and c) is the intensive study of a language and will satisfy the foreign language requirement. 2115a, 2115b, and 2115c are co-requisites and must be taken concurrently. All three sections must be completed with a grade of C- or better, to satisfy the foreign language requirement.

A grade of D in a Language 1001 course is a passing grade but not an entrance grade for a Language 1002 course. A grade of D in a Language 1002 course is a passing grade but not an entrance grade for a Language 2101 course or its equivalent. A grade of D in a Language 2101 course fulfills the language requirement, but is not an entrance grade for a higher-level course.

Demonstration of a high level of proficiency may affect the number of hours required for the major. Native or heritage speakers of a language should consult with the department concerning appropriate placement.

Students may not take for credit an elementary course if they have already completed a higher-level course for which the elementary course, or its equivalent, is a prerequisite.

Degree Requirements

All courses for the major must be passed with a grade of C- or better. No course required for the major may be taken on a satisfactory/ unsatisfactory (s/u) basis with the exception of those taken abroad as part of a university program that has received departmental approval.

Bachelor of Arts

All students seeking a B.A. in a Modern Language must successfully complete FL 2100 Languages and World View, and must meet the departmental requirement of a minimum of 33 hours in French and German, 37 hours in Japanese and 36 hours in Spanish (excluding Language 1001 and 1002). The maximum number of hours that may be taken in the major is 45 (including Language 1001 and 1002). In addition, students seeking the B.A. in Modern Language who desire a teaching certificate must also FGN LANG 4589 (p. 61) (same as SEC ED 4589 (p. 61)), Curriculum and Methods of Teaching Foreign Languages, FGN LANG 4590 (p. 61) (same as SEC ED 4590 (p. 61)), Foreign Language Teaching Seminar, and fulfill the professional secondary education requirements of the College of Education.

Bachelor of Science in Education

Those students seeking the B.S.Ed. degree, with a concentration in a modern language, are required to complete 30 hours of work (excluding credit for Language 1001 and 1002) of which 9 hours must be on the 4000 level. Students working toward a degree in elementary education, with related work in a modern language, should consult the College of Education concerning their program.

Post Baccalaureate Certification Students

Students who have a bachelor's degree and are seeking teacher certification in a language must have completed 30 hours in that language and will be required to take the Simulated Oral Proficiency Interview exam to determine proficiency. Students who do not demonstrate sufficient proficiency will be required to take additional coursework in the language.

Transfer Students

Transfer students majoring in one of the modern languages must complete at UMSL a minimum of 12 graded hours in language courses at the 3000 level or above with a grade point average of 2.0 or better in these courses.

Native Speakers

Native speakers must complete at least two courses at the 3000 level and four courses at the 4000 level to obtain a major in their native language.

Specific Requirements for Concentration in French

Each major with a French concentration must complete the following courses:

FRENCH 2101 (p. 61)	Intermediate French Language And Culture I (or the equivalent)	3
FRENCH 2170 (p. 61)	Intermediate French Language And Culture	3
FRENCH 2180 (p. 61)	Readings In French	3
Select five of the	following:	15
FRENCH 3200 (p. 61)	French Grammar in Review	

FRENCH 3205 French in Commerce and Media
(p. 61)

FRENCH 3211 Contemporary French Culture
(p. 61)

FRENCH 3271 Intermediate French Conversation
(p. 61)

FRENCH 3280 French Literature and Culture to 1800
(p. 61)

FRENCH 3281 French Literature and Culture After 1800
(p. 61)

Select three courses at the 4000-level.

9

Total Hours

Specific Requirements for Concentration in Spanish

Each major with a Spanish concentration must complete the following

courses:		
SPANISH 2101 (p. 61)	Spanish Language And Culture III (or the equivalent)	3
SPANISH 2172 (p. 61) & SPANISH 219 (p. 61)	Spanish Composition and Spanish Grammar for Language Immersion 199A	4
Select one of the	following:	4
SPANISH 218 (p. 61) & 2180A (p. 61)	Readings In Spanish and Grammar for Readings in Spanish	
SPANISH 219 (p. 61) & 2199A (p. 61)	9 Special Topics: Language Immersion: Spanish and Spanish Grammar for Language Immersion	
SPANISH 3210 (p. 61)	Hispanic Culture And Civilization: Spain	3
	1 Hispanic Culture And Civilization: Spanish America	

or SPANISH 3211 Hispanic Culture And Civilization: Spanish America
(p. 61) and Hispanic Culture And Civilization: Spain
& SPANISH
3210/3211A (p.
61)
SPANISH 3280 Introduction To Hispanic Literature: Spain

or SPANISH 3281 Introduction To Hispanic Literature: Spanish America (p. 61)

SPANISH 3326 Introduction to Hispanic Linguistics 3 (p. 61)

Select two courses at the 3000-level (see course descriptions for more detail)

3

Select three courses at the 4000-level ¹ 9

Total Hours 35

One of which must be SPANISH 4399 (p. 61), Seminar on Hispanic Literature

Specific Requirements for the Concentration in German

Each major with a concentration in German must complete the following courses:

GERMAN 2101 (p. 61)	Intermediate Language And Culture: German III	3
GERMAN 2170 (p. 61)	Intermediate Practice in Speaking and Writing German	3
GERMAN 2180 (p. 61)	Intermediate Readings In German	3
GERMAN 3201 (p. 61)	Introduction to German Literature	3
GERMAN 3202 (p. 61)	Introduction to German Film	3
GERMAN 3208 (p. 61)	The German-Speaking Countries in the Modern World	3
Select one course	e at the 3000-level	3
Select three cours	ses at the 4000-level	9
Total Hours		30

Specific Requirements for the Concentration in Japanese

Each major with a concentration in Japanese must complete the following courses:

JAPAN 2101 (p. 61)	Intermediate Japanese I	5
JAPAN 2102 (p. 61)	Intermediate Japanese II	5
JAPAN 3201 (p. 61)	Intermediate Japanese III	3
JAPAN 3202 (p. 61)	Intermediate Japanese IV	3
JAPAN 3280 (p. 61)	Readings in Japanese	3
JAPAN 4301 (p. 61)	Advanced Japanese I	3
JAPAN 4302 (p. 61)	Advanced Japanese II	3
JAPAN 4390 (p. 61)	Special Readings	3
Select three cours	ses in Japanese Studies	9
Total Hours		37

Learning outcomes for Majors

Students completing the BA in Modern Languages should be able to demonstrate competencies in 4 major Skills and Knowledge areas in the language of concentration: Linguistic, Critical Thinking, Cultural/Global Awareness, and Self- Reflection. The competencies should include the ability to:

- describe and narrate in the past, present and future both orally and in writing
- read authentic documents such as newspapers and literary texts for concrete information

- understand conversations, radio and television programming on concrete topics in the target language
- summarize, analyze and synthesize information derived from a variety of sources and media
- demonstrate knowledge of the history, geography, politics and arts of the target culture
- make connections with, and draw contrasts between, the target culture and their own
- understand the value and necessity of life-long learning and translingual and transcultural competence.

Minor in French, German, Japanese or Spanish

A minor in French, German, Japanese or Spanish requires the completion of four courses in the language beyond the basic foundation sequence (Language 1001, Language 1002, and Language 2101) along with any associated "A" courses for Spanish minors. Transfer students must complete at least two courses for the minor at UMSL. All courses must be passed with a grade of C- or better.

Specific requirement for the minor in French

FRENCH 2170 (p. 61)	Intermediate French Language And Culture	3
FRENCH 2180 (p. 61)	Readings In French	3
Select two French	courses on the 3000-level or above.	6
Total Hours		12

Specific requirement for the minor in German

GERMAN 2170 (p. 61)	Intermediate Practice in Speaking and Writing German	3
GERMAN 2180 (p. 61)	Intermediate Readings In German	3
Select two Germa	an courses on the 3000-level or above.	6
Total Hours		12

Specific requirement for the minor in Japanese

JAPAN 2102 (p. 61)	Intermediate Japanese II	5
JAPAN 3201 (p. 61)	Intermediate Japanese III	3
JAPAN 3202 (p. 61)	Intermediate Japanese IV	3
Select one course	e in Japanese Studies.	3
Total Hours		14

Specific requirement for the minor in Spanish

Select two of the following:

SPANISH 2199 Special Topics: Language Immersion: Spanish
(p. 61) and Spanish Grammar for Language Immersion
& 2199A (p.
61)

SPANISH 2172 Spanish Composition		
(p. 61) & 2172A (p. 61)	and Grammar for Spanish Composition	
SPANISH 2180 (p. 61) & 2180A (p. 61)	Readings In Spanish and Grammar for Readings in Spanish	
Plus two Spanish of	courses on the 3000-level or above	6
Total Hours		14

Minor in Modern Languages

A minor in Modern Languages requires the completion of 4 courses beyond the introductory sequence (1001, 1002 and 2101), two in each of two different languages. For students who are seeking a BA in Modern Language, the two languages must be different than the language in which they are majoring.

Minor in Classical Studies

The minor in Classical Studies is an interdisciplinary course of studies intended to encourage undergraduates in various disciplines to come to a fuller awareness of the cultures of ancient Greece and Rome and of the classical tradition that underlies much of modern Western civilization. Specific requirements for the minor are detailed at online

Students pursuing a graduate degree in secondary education may select an emphasis area in French, German, Japanese or Spanish. These required eighteen hours may be selected from 3000 and 4000 level courses in these languages.

Certificate in Modern Language and Study Abroad

Students seeking the certificate must complete language courses at UMSL and abroad. The Center for International Studies and Languages and Cultures cooperate in offering the Certificate.

Modern language study at UMSL
 Students must select one of the following languages and complete the required courses at UMSL. Total: 6 credit hours. (8 hours for Spanish)

French

FRENCH 2170 (p. 61)	Intermediate French Language And Culture	3
FRENCH 2180 (p. 61)	Readings In French	3
Total Hours		6
German		
GERMAN 2170 (p. 61)	Intermediate Practice in Speaking and Writing German	3
GERMAN 2180 (p. 61)	Intermediate Readings In German	3
Total Hours		6

Spanish

	SPANISH 2172 (p. 61) & 2172A (p. 61)	Spanish Composition and Grammar for Spanish Composition	4
	SPANISH 2180 (p. 61) & 2180A (p. 61)	Readings In Spanish and Grammar for Readings in Spanish	4
	Total Hours		

Japanese

JAPAN 2102 (p. 61)	Intermediate Japanese II	5
JAPAN 3201 (p. 61)	Intermediate Japanese III	3
Total Hours		8

2. Foreign language study abroad

Students must complete a minimum of two additional three credit hour courses taught in the target language, at a foreign university that is affiliated with the UMSL Study Abroad Program, with the goal of increasing linguistic competence. All courses must be approved by Language faculty members.

Students should consult the study abroad advisor in International Studies and Programs to select a site for their study abroad experience. Then, students should consult their advisor in Languages and Cultures to select appropriate courses.

Career Outlook

Career options for graduates with a major or minor in modern languages include the following fields: teaching, social work, nursing, engineering, business, communications, government, journalism, travel industry, translation, and research. Our graduates have been especially successful when they combine advanced study in a modern language with another major. They are then able to add proficiency in a foreign language and culture to their knowledge and skills in another specialty. Experience with world cultures makes our graduates more adaptable and better prepared to meet the challenges of a global and increasingly diverse job market.

Arabic Courses

ARABIC 1001 Arabic I: 5 semester hours

Emphasis is placed upon the understanding, speaking, reading and writing of Arabic and upon the acquisition of the fundamentals of grammar and syntax.

ARABIC 1002 Arabic II: 5 semester hours

Prerequisites: ARABIC 1001 or equivalent. Emphasis is placed upon the understanding, speaking, reading and writing of Arabic. Continuation of acquisition of the fundamentals of grammar and syntax.

ARABIC 2101 Intermediate Arabic I: 5 semester hours

Prerequisites: ARABIC 1002 or equivalent. Students will advance their understanding of Arabic culture through discussions, readings and written work. Language skills will be further developed through meaningful communicative interaction.

ARABIC 2102 Intermediate Arabic II: 5 semester hours

Prerequistes: ARABIC 2101 or equivalent Continuation of ARABIC 2101.

ARABIC 2190 Special Readings: 1-3 semester hours

Prerequisites: ARABIC 2102 or consent of the department. Independent study through readings, reports and conferences.

Chinese Courses

CHINESE 1001 Chinese I: 5 semester hours

Emphasis is placed upon the understanding, speaking, reading, and writing of Mandarin Chinese and upon the acquisition of the fundamentals of grammar and syntax.

CHINESE 1002 Chinese II: 5 semester hours

Prerequisites: Chinese I or equivalent. Emphasis is placed upon the understanding, speaking, reading, and writing of Mandarin Chinese. Continuation of the acquisition of the fundamentals of grammar and syntax.

CHINESE 1003 Chinese III: 3 semester hours

Prerequisites: CHINESE 1002 or equivalent. Review and practice of vocabulary, fundamentals of grammar, syntax, reading and writing acquired in CHINESE 1002. This course is not a CHINESE 2101 equivalent and may not be counted towards a foreign language requirement.

CHINESE 1005 Chinese Calligraphy and Writing in East Asia: 1 semester hour

Same as JAPAN 1005. This course is an introduction to the art of Chinese calligraphy and the history and basic features of the writing systems in East Asia) Chinese, Japanese, Korean, Mongolian, Tibetan, etc.). Emphasis is placed on the Chinese script and writing Chinese characters correctly with a calligraphy brush and ink. Students practice writing basic strokes and characters and creating their own calligraphic works.

CHINESE 1199 Special Topics: Language Immersion: Chinese: 1 semester hour

Prerequisites: CHINESE 1001 or concurrent enrollment in CHINESE 1001. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary.

CHINESE 2101 Intermediate Chinese I: 5 semester hours

Prerequisites: CHINESE 1002 or equivalent. Grammar review and continued development of language skills.

CHINESE 2102 Intermediate Chinese II: 5 semester hours

Prerequisites: CHINESE 2101 or equivalent. Continuation of CHINESE 2101.

CHINESE 2150 Chinese Literature In Translation: 3 semester hours

A historical and critical introduction to great works in classical Chinese literature and culture. All Required readings will be in English translation. This course may be repeated for credit with different literary works with departmental approval. This course satisfies the University cultural diversity requirement.

CHINESE 2190 Special Readings: 1-6 semester hours

Prerequisites: CHINESE 2102 or consent of the department Independent study through readings, reports, and conferences.

CHINESE 2191 Special Topics in Chinese Culture: 3 semester hours A topically organized introduction to Chinese culture and society. May be

A topically organized introduction to Chinese culture and society. May be repeated for credit (up to 9 credits) when the topic varies.

CHINESE 2199 Special Topics: Language Immersion: Chinese: 1 semester hour

Prerequisites: CHINESE 2101 or concurrent enrollment in CHINESE 2101. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary.

Foreign Language-Other Courses

FGN LANG 1005 Chinese Calligraphy and Writing in East Asia: 1 semester hour

FGN LANG 2100 Languages and World View: 3 semester hours
SAME AS ANTHRO 2100 and SOC 2200. Prerequisites: Completion
of two semesters of one foreign language at the college level. This
course investigates the extent to which peoples' linguistic and cultural
background informs their understanding of the world. Experts on a variety
of major Western and non-Western languages will introduce students to
differences in ideas about time, space, human relationships, and other
issues based on language. The course will also analyze common cultural
misunderstandings among native speakers of English and speakers of
other languages.

FGN LANG 2192 Service Learning In Foreign Languages: 1-3 semester hours

Prerequisites: Permission of course instructor and concurrent enrollment in a Foreign Language course (Arabic, Chinese, English as a Second Language, French, German, Greek, Japanese, Latin or Spanish) at the 2000-level or higher. Taken concurrently with a qualifying foreign language course, students will participate in a community service experience that is academically integrated into the students' course of study. Community service in a local or international community organization, as approved by the course instructor, is required. Determination of the type of community service to be conducted and the number of hours required will be made in consultation with the instructor. May be repeated for a maximum of 6 credit hours.

FGN LANG 4307 Community Based Research: 3 semester hours FGN LANG 4589 Curriculum and Methods of Teaching Foreign Language: 3 semester hours

Same as SEC ED 4589. Prerequisites: TCH ED 3310 or TCH ED 5310 and passing the departmental language skills test. A study of the scope and sequence of the foreign language courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of foreign language. To be taken prior to student teaching. This course must be completed in residence. Not available for graduate credit.

FGN LANG 4590 Foreign Language Teaching Seminar: 2 semester hours

Same as SEC ED 4590. Prerequisites: Concurrent enrollment in SEC ED 4990 or consent of instructor. A practicum course in the teaching of foreign languages. Review and explanation of drills, dialogues, and a variety of classroom techniques, oral and written. A continuation of FGN LANG 4589 / SEC ED 4589, Curriculum and Methods, with an emphasis on specific practical skills. To be taken concurrently with SEC ED 4990, Student Teaching. Not available for graduate credit.

FGN LANG 5311 Special Topics In Foreign Language Teaching: 3 semester hours

Prerequisite: Consent of the Instructor. Designed for in-service foreign language teachers, this course focuses on the study of special topics in the field of foreign language learning with an emphasis on research applications to the improvement of practice. Topics may include technology for FL learning, the teaching of writing in the FL classroom, the teaching of reading in the FL classroom, proficiency-oriented instruction and assessment, second language acquisition for FL teachers, action research in the FL classroom. May be repeated for credit provided the topic is different. May be applied toward the Master's in Secondary Education with an emphasis in FL teaching.

FGN LANG 5399 Standards-Based Foreign Language Instruction: 3 semester hours

Prerequisites: Teacher certification and one year teaching experience. Designed to provide in-service foreign language teachers with the knowledge and skills to design instructional units that reflect the profession's standards for foreign language learning.

French Courses

FRENCH 1001 French Language and Culture I: 5 semester hours

Students will develop communicative skills in French, including listening, speaking, reading, and writing. Introduction to Francophone culture through discussion of readings and visual media. Intended for students with no previous French experience. Students with previous French experience are expected to.

FRENCH 1002 French Language and Culture II: 5 semester hours
Prerequisite: FRENCH 1001 or equivalent. Students will continue to
develop communicative skills in French, including listening, speaking,
reading, and writing. Continued exploration of Francophone culture

FRENCH 2101 Intermediate French Language And Culture I: 3 semester hours

Prerequisites: FRENCH 1002 or equivalent Students will advance their understanding of Francophone cultures through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction.

FRENCH 2115A Intensive French: 5 semester hours

through discussion of readings and visual media.

Prerequisite: Special Consent Required. An intensive study of French language and culture. Students will develop communicative skills, including listening, speaking, reading, and writing. Completion of the course with a grade of C- or better will satisfy the foreign language requirement of the B.A. degree. Students who have successfully completed FRENCH 2115A, FRENCH 2115B, and FRENCH 2115C this course may advance to FRENCH 2170 and FRENCH 2180.

FRENCH 2115B Intensive French: 5 semester hours

Prerequisite: Special Consent Required. An intensive study of French language and culture. Students will develop communicative skills, including listening, speaking, reading, and writing. Completion of the course with a grade of C- or better will satisfy the foreign language requirement of the B.A. degree. Students who have successfully completed FRENCH 2115A, FRENCH 2115B, and FRENCH 2115C this course may advance to FRENCH 2170 and FRENCH 2180.

FRENCH 2115C Intensive French: 3 semester hours

Prerequisite: Special Consent Required. An intensive study of French language and culture. Students will develop communicative skills, including listening, speaking, reading, and writing. Completion of the course with a grade of C- or better will satisfy the foreign language requirement of the B.A. degree. Students who have successfully completed FRENCH 2115A, FRENCH 2115B, and FRENCH 2115C this course may advance to FRENCH 2170 and FRENCH 2180.

FRENCH 2170 Intermediate French Language And Culture: 3 semester hours

Prerequisites: FRENCH 2101 or equivalent. Students will continue to advance in their development of the four language skills through meaningful communicative interaction. Students will further advance their understanding of Francophone culture. This course should be taken concurrently with FRENCH 2180.

FRENCH 2180 Readings In French: 3 semester hours

Prerequisite: FRENCH 2101 or equivalent. This course will introduce students to a variety of literary and non-literary texts in French. This course should be taken concurrently with FRENCH 2170.

FRENCH 2190 Special Readings In French: 1-3 semester hours

Prerequisite: FRENCH 2101 and consent of the department. Independent study on mutually acceptable topics through readings, reports, and conferences.

FRENCH 2199 Special Topics: Language Immersion: French: 1-3 semester hours

Prerequisite: FRENCH 2101 or consent of instructor. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit provided that the topic is different.

FRENCH 3200 French Grammar in Review: 3 semester hours

Prerequisite: FRENCH 2170 and FRENCH 2180. This course is designed to increase students' ability to communicate clearly and effectively through study and practice of forms and structures of the French language. Strong emphasis in writing.

FRENCH 3205 French in Commerce and Media: 3 semester hours

Prerequisite: FRENCH 2170 and FRENCH 2180. Professional and practical applications of French in commerce and media, including conventions of correspondence, business etiquette, and travel.

FRENCH 3211 Contemporary French Culture: 3 semester hours

Prerequisites: FRENCH 2170 and FRENCH 2180. Aspects of contemporary French culture, including history, geography, education, politics, and gastronomy, studied through a variety of authentic cultural materials.

FRENCH 3271 Intermediate French Conversation: 3 semester hours
Prerequisite: FRENCH 2170 or consent of the instructor. Emphasis will be
placed upon the further development of communicative skills in French.

FRENCH 3280 French Literature and Culture to 1800: 3 semester

Prerequisites: FRENCH 2170 and FRENCH 2180. Designed to acquaint students with French literature and culture from the Middle Ages through the eighteenth century.

FRENCH 3281 French Literature and Culture After 1800: 3 semester

Prerequisites: FRENCH 2170 and FRENCH 2180. Designed to acquaint students with French literature and culture from the nineteenth century to the present.

FRENCH 3290 Special Readings: 1-3 semester hours

Prerequisite: Consent of department. Independent study through readings, reports and conferences.

FRENCH 4300 Advanced Grammar & Stylistics: 3 semester hours

Prerequisite: FRENCH 3200 or equivalent. This course is designed to improve students' writing skills through advanced study of modern French prose style.

FRENCH 4311 Special Topics In French Culture and Literature: 3 semester hours

Prerequisites: Three French courses at the 3000 level or above. Selected topics in French/Francophone culture and literature. This course may be repeated for credit provided the topic is different each time.

FRENCH 4350 Studies in Eighteenth-Century French Literature and Culture: 3 semester hours

Prerequisite: FRENCH 3280 or FRENCH 3281. A study of eighteenth-century French literature and culture. Topics may include the philosophic movement, the French Revolution, and representative novels and plays.

FRENCH 4360 Studies in Nineteenth-Century French Literature and Culture: 3 semester hours

Prerequisite: FRENCH 3280 or FRENCH 3281. A study of nineteenth-century French literature and culture. Topics may include romanticism, realism, symbolism, and impressionism.

FRENCH 4370 Studies in Twentieth-Century French Literature and Culture: 3 semester hours

Prerequisite: FRENCH 3280 or FRENCH 3281. A study of twentieth-century French literature and culture. Topics may include surrealism, existentialism, the influence of the world wars, post-colonialism, and cinema

FRENCH 4375 Modern French Theatre: 3 semester hours

Prerequisite: FRENCH 3280 or FRENCH 3281. A study of French drama in the nineteenth and twentieth centuries through critical study of selected works by major dramatists.

FRENCH 4380 Studies in Twenty-First-Century French Literature and Culture: 3 semester hours

Prerequisites: FRENCH 3280 or FRENCH 3281. A study of twenty-first-century French literature and culture. Topics may include literature, media, and culture since 2000.

FRENCH 4390 Advanced Independent Study: 1-3 semester hours

Prerequisite: Consent of instructor. Independent study through readings, reports and discussions.

FRENCH 4399 French Seminar: 3 semester hours

Prerequisite: French 3280 or 3281. Specialized topic in French literature. Subject to be announced by instructor in charge of seminar.

FRENCH 5311 Advanced Topics in French Culture and Literature: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. Selected topics in French/Francophone culture and literature. This course may be repeated for credit provided the topic is different each time. Students will be expected to conduct an independent research project.

German Courses

GERMAN 1001 Beginning Language and Culture German I: 5 semester hours

Introduction for students with little or no knowledge of German. Students will develop listening comprehension, speaking, reading, and writing skills and become familiar with the cultures and history of the German-speaking countries. The course is conducted mainly in German. GERMAN 1001, GERMAN 1002, and GERMAN 2101 together form the introductory German language sequence.

GERMAN 1002 Beginning Language and Culture: German II: 5 semester hours

Prerequisite: GERMAN 1001 or equivalent. Students will continue to develop listening comprehension, speaking, reading, and writing skills and to become familiar with the cultures and history of the German-speaking countries. The course is conducted mainly in German. GERMAN 1001, GERMAN 1002, and GERMAN 2101 together form the introductory German language sequence.

GERMAN 2101 Intermediate Language And Culture: German III: 3 semester hours

Prerequisites: GERMAN 1002 or equivalent Students will advance their understanding of German-speaking cultures through discussions, readings, and written work. Through meaningful communicative interaction, students will further develop their language skills. The course is conducted mainly in German. GERMAN 1001, GERMAN 1002, and GERMAN 2101 together form the introductory German language sequence. Students who have successfully completed this course may advance to GERMAN 2170 or GERMAN 2180.

GERMAN 2170 Intermediate Practice in Speaking and Writing German: 3 semester hours

Prerequisites: GERMAN 2101 or equivalent. In this course students will strengthen their communication skills and grammar in spoken and written German. Students will work with authentic literary texts, news articles, film, and music. GERMAN 2170 and GERMAN 2180 together form the bridge between the introductory German language sequence (GERMAN 1001, GERMAN 1002, and GERMAN 2101) and the advanced culture and literature courses. The course is conducted in German.

GERMAN 2175 Business German: 3 semester hours

Prerequisites: GERMAN 2101 or equivalent. German skills for realistic use in the context of the German-language business world. Particular emphasis is placed on business-related vocabulary, speaking skills and correspondence. No previous business experience necessary.

GERMAN 2180 Intermediate Readings In German: 3 semester hours

Prerequisites: GERMAN 2101 or equivalent. In this course students will strengthen their communication skills and grammar in spoken and written German. Students will read and discuss authentic German texts. GERMAN 2170 and GERMAN 2180 together form the bridge between the introductory German language sequence (GERMAN 1001, GERMAN 1002, and GERMAN 2101) and the advanced culture and literature courses. The course is conducted in German.

GERMAN 2190 Intermediate Independent Study: 1-3 semester hours

Prerequisite: GERMAN 2170 and GERMAN 2180, and consent of instructor and department. In consultation with the instructor, students undertake independent work to further develop intermediate German language skills and to deepen their knowledge of culture and history. The course is conducted in German.

GERMAN 2199 Special Topics: Language Immersion: 1 semester hour

Prerequisites: GERMAN 1002. Faculty-led experience designed specifically to enhance acquisition of German language and culture. This course may be repeated for credit if the topics vary. The course is conducted in German.

GERMAN 3201 Introduction to German Literature: 3 semester hours

Prerequisite: Two years of college German or equivalent. Readings and critical analysis of selected works of literature written in the German language. This course is conducted in German.

GERMAN 3202 Introduction to German Film: 3 semester hours

Prerequisite: Two years of college German or equivalent. Viewings and critical analysis of selected films produced in the German language. The course is conducted in German.

GERMAN 3208 The German-Speaking Countries in the Modern World: 3 semester hours

Prerequisite: Two years of college German or equivalent; GERMAN 2170 or equivalent. A critical examination of issues in the culture and politics of the German-speaking countries since 1945 through a variety of media. The course is conducted in German.

GERMAN 3210 German Culture And Civilization: 3 semester hours

Prerequisite: Two years of college German or equivalent. A survey of the development of German culture and civilization and the emergence of a German identity. The course is conducted in German.

GERMAN 3211 Topics in German Culture: 3 semester hours

Prerequisites: Two years of college German or equivalent. Discussion of significant topics in German culture. This course may be repeated for credit if the topics vary. The course is conducted in German, or in English when cross-listed with another department.

GERMAN 3280 German Literature and Culture I: Beginnings-Enlightenment: 3 semester hours

Prerequisites: At least one 3000-level German course or consent of the instructor and department. This survey course will familiarize students with the development of German literature and culture through the end of the Enlightenment. Critical analysis of representative texts and other media. The course is conducted in German.

GERMAN 3281 German Literature and Culture II: Romanticism -Present: 3 semester hours

Prerequisites: At least one 3000-level German course or consent of instructor and department. This survey course will familiarize students with the development of German literature and culture from the end of the Enlightenment through the present day. Critical analysis of representative texts and other media. The course is conducted in German.

GERMAN 3290 Advanced Independent Study I: 1-3 semester hours Prerequisite: GERMAN 3201, GERMAN 3202, GERMAN 3208, GERMAN

3210, and consent of instructor and department. In consultation with the instructor, students undertake independent work to transition from intermediate to advanced German language skills and to deepen their knowledge of culture and history. The course is conducted in German.

GERMAN 4311 Special Topics In German Culture: 3 semester hours

Prerequisites: At least two 3000 level German courses or consent of instructor and department. Discussion of significant topics in German culture. This course may be repeated for credit if the topics vary. The course is conducted in German, or in English when cross-listed with another department.

GERMAN 4390 Advanced Independent Study II: 1-3 semester hours

Prerequisite: GERMAN 3201, GERMAN 3202, GERMAN 3208, and GERMAN 3210, and consent of instructor and department. In consultation with the instructor, students undertake independent work to further develop advanced German language skills and to deepen their knowledge of culture and history. The course is conducted in German.

GERMAN 4398 Survey Of German Literature Part II: 3 semester hours Prerequisite: GERMAN 3201 or GERMAN 3202. Special emphasis on the summary and synthesis of trends and characteristics of major periods in

German literature considered in the general context of European culture.

GERMAN 5311 Advanced Topics In German Culture: 3 semester

Prerequisites: Graduate standing or consent of instructor and department. Discussion of significant topics in German culture. This course may be repeated for credit if the topics vary. The course is conducted in German, or in English when cross-listed with another department.

Greek Ancient Courses

GRK ANC 1001 Ancient Greek I: 5 semester hours

Study of grammar, syntax and vocabulary accompanied by readings of simple prose selections.

GRK ANC 1002 Ancient Greek II: 5 semester hours

Prerequisite: GRK ANC 1001 or equivalent. The study of vocabulary, grammar and syntax is continued from GRK ANC 1001, including readings and discussion from selected classic authors.

GRK ANC 2101 Intermediate Ancient Greek Language And Culture: 3 semester hours

Prerequisite: GRK ANC 1002 or equivalent. Students will advance their understanding of ancient Greek culture through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction. This course fulfills the Humanities requirement.

GRK ANC 2151 Greek And Latin In English Today: 3 semester hours

Same as LATIN 2151. Language and culture of Greece and Rome reflected in modern English. Emphasis on vocabulary derived from Greek and Latin. Included will be the Greek alphabet and an introduction to historical language change involving the relationship between Greek, Latin and Romance languages, and Germanic languages (particularly English). Attention will be paid to terms used in law, medicine, science, liberal arts, and to general vocabulary enrichment.

GRK ANC 2152 A Brief Introduction to Greek and Latin in English Today: 1 semester hour

Same as LATIN 2152. This outline course is designed to enrich the student's general liberal arts vocabulary as well as to improve mastery of terms used in law, medicine, and science. The emphasis is on vocabulary derived from Greek and Latin. Included will be the Greek alphabet and an introduction to historical language change involving the relationship among Greek, Latin, and Romance languages, and Germanic languages (particularly English). This course is not to be taken in addition to GRK ANC 2151.

Greek Modern Courses

GRK MOD 1001 Modern Greek I: 5 semester hours

Emphasis is placed upon the understanding, speaking, reading, and writing of Modern Greek and upon the acquisition of the fundamentals of grammar and syntax.

GRK MOD 1002 Modern Greek II: 5 semester hours

Prerequisite: Greek 1001 or equivalent. The study of vocabulary, grammar and syntax is continued from Greek 1. Readings and discussions from selected classical authors.

GRK MOD 2101 Intermediate Modern Greek Language And Culture: 3 semester hours

Prerequisites: GRK MOD 1002 or equivalent Students will advance their understanding of modern Greek culture through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction. This course fulfills the Humanities requirement.

GRK MOD 2102 Intermediate Modern Greek Language And Culture II: 3 semester hours

Prerequisite: GRK MOD 2101 or equivalent. Emphasis is placed on the study of Greek and Greek-American culture and the continued development of language skills through meaningful communicative interaction.

GRK MOD 2150 Modern Greek Literature In Translation: 3 semester hours

This course is an exploration of significant works by major Modern Greek authors, dealing with relevant issues of Western literary traditions. Authors include: Cavafy, Kazantzakis, Seferis, Solomos, Elytis.

GRK MOD 2190 Special Readings: 1-3 semester hours

Prerequisites: GRK MOD 2101 or consent of the department Independent study through readings, reports, and conferences.

Japanese Courses

JAPAN 1001 Japanese I: 5 semester hours

Emphasis is placed upon the understanding, speaking, and writing of Japanese and upon the acquisition of the fundamentals of grammar and syntax.

JAPAN 1002 Japanese II: 5 semester hours

Prerequisites: JAPAN 1002 or equivalent. Emphasis is placed upon the understanding, speaking, reading, and writing of Japanese. Continuation of the acquisition of the fundamentals of grammar and syntax.

JAPAN 1003 Japanese III: 3 semester hours

Prerequisite: JAPAN 1002 or equivalent. Review and practice of fundamentals of grammar, syntax, reading and writing acquired in JAPAN 1002. This course is not a JAPAN 2101 equivalent and may not be counted towards a foreign language requirement.

JAPAN 1005 Chinese Calligraphy and Writing in East Asia: 1 semester hour

Same as CHINESE 1005. This course is an introduction to the art of Chinese calligraphy and the history and basic features of the writing systems in East Asia, (Chinese, Japanese, Korean, Mongolian, Tibetan, etc.). Emphasis is placed on the Chinese script and writing Chinese characters correctly with a calligraphy brush and ink. Students practice writing basic strokes and characters and creating their own calligraphic works.

JAPAN 1011 Anime Nation: Popular Culture in Japan: 3 semester hours

A look at postmodern samurai, preteen ninjas, praying at shrines and other elements of J-pop culture. This on-line course uses various clips and full-length animated features, to introduce and explore topics such as family life, school life, shared values, contemporary social issues, fashion, and metaphysics. Critical texts, essays, and narrated presentations provide background for analysis and appreciation.

JAPAN 1199 Special Topics: Language Immersion: Japanese: 1 semester hour

Prerequisite: JAPAN 1001 or concurrent enrollment in JAPAN 1001. Faculty-led experience designed specifically to enhance acquisition of the targe language and culture. This course may be repeated for credit if the topics vary.

JAPAN 2101 Intermediate Japanese I: 5 semester hours

Prerequisite: JAPAN 1002 or equivalent. Students will advance their understanding of Japanese culture through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction. This course fulfills the Humanities requirement.

JAPAN 2102 Intermediate Japanese II: 5 semester hours

Prerequisites: JAPAN 2101 or equivalent. Continuation of JAPAN 2101.

JAPAN 2111 The World of Anime - Advanced Topics in Japanese Animation: 3 semester hours

Prerequisites: JAPAN 1011 or permission of instructor. Students will explore and analyze anime and manga from sociological, literary, and anthropological perspectives, attempting to foster deeper understanding of contemporary Japan and the historical context from which the selected works emerged.

JAPAN 2150 Classical Japanese Literature In Translation: 3 semester hours

An exploration of Classical Japanese literary masterpieces and the world from which they arose. All required readings will be in English translation. This course may be repeated for credit with different literary works as a topic.

JAPAN 2190 Special Readings: 1-3 semester hours

Prerequisites: JAPAN 2102 or consent of the department Independent study through readings, reports, and conferences.

JAPAN 2191 Special Topics in Japanese Culture: 3 semester hours A topically organized introduction to Japanese culture and society. May be

A topically organized introduction to Japanese culture and society. May be repeated for credit when the topic varies.

JAPAN 2199 Special Topic s: Language Immersion: Japanese: 1 semester hour

Prerequisite: JAPAN 2101 or concurrent enrollment in JAPAN 2101. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary.

JAPAN 3201 Intermediate Japanese III: 3 semester hours

Prerequisites: JAPAN 2102 or equivalent. Students will continue to advance their understanding of Japanese culture through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction. This course satisfies the University cultural diversity requirement.

JAPAN 3202 Intermediate Japanese IV: 3 semester hours

Prerequisites: JAPAN 3201 or equivalent. Continuation of JAPAN 3201.

JAPAN 3280 Readings in Japanese: 3 semester hours

Prerequisites: JAPAN 3202 or equivalent. Development of language skills through reading and discussion of a variety of literary and non-literary texts in Japanese.

JAPAN 3290 Special Readings: 1-3 semester hours

Prerequisites: JAPAN 2190 or consent of instructor Independent study through readings, reports and conferences.

JAPAN 4301 Advanced Japanese I: 3 semester hours

Prerequisite: JAPAN 3202 or equivalent. Further development of skills in both spoken and written Japanese. Students will read/view and discuss selected newspaper articles, editorials, essays, short stories, television programs and films.

JAPAN 4302 Advanced Japanese II: 3 semester hours

Prerequisite: JAPAN 4301 or equivalent. Continuation of Japanese 4301. Further development of skills in both sopken and written Japanese. Students will read/view and discuss selected newspaper articles, editorials, essays, short stories, television programs and films.

JAPAN 4390 Special Readings: 1-3 semester hours

Prerequisites: JAPAN 3290 or consent of instructor. Independent study through readings, reports and conferences.

Latin Courses

LATIN 1001 Latin I: 5 semester hours

A study of Latin grammar, syntax and vocabulary accompanied by reading selections from literary texts.

LATIN 1002 Latin II: 5 semester hours

Prerequisite: LATIN 1001 or equivalent. The study of vocabulary, grammar and syntax is continued from LATIN 1001, including readings and discussion from selected classical authors.

LATIN 1035 English Grammar For Students Of Foreign Languages: 1 semester hour

This course is designed to familiarize the student with basic English grammer and the terms commonly used in the teaching of most languages. This course does not count toward a major or minor in English or any foreign language.

LATIN 2101 Intermediate Latin Language And Culture: 3 semester hours

Prerequisites: LATIN 1002 or equivalent Students will advance their understanding of Roman culture through discussions, readings, and written work. Language skills will be further developed through meaningful communicative interaction. This course fulfills the Humanities requirement.

LATIN 2150 Latin Literature In Translation: 3 semester hours

Prerequisites: Sophomore standing. Reading and discussion of selected works in Latin literature from Republican Rome to late antiquity in English translation. This course may be repeated for credit if the topics vary.

LATIN 2151 Greek And Latin In English Today: 3 semester hours

Language and culture of Greece and Rome reflected in modern English. Emphasis on vocabulary derived from Greek and Latin. included will be the Same as GRK ANC 2151. Greek alphabet and an introduction to historical language change involving the relationship between Greek, Latin and Romance languages, and Germanic languages (particularly English). Attention will be paid to terms used in law, medicine, science, liberal arts, and to general vocabulary enrichment.

LATIN 2152 A Brief Introduction to Greek and Latin in English Today: 1 semester hour

Same as GRK ANC 2152. This online course is designed to enrich the student's general liberal arts vocabulary as well as to improve mastery of terms used in law, medicine, and science. The emphasis is on vocabulary derived from Greek and Latin. Included will be the Greek alphabet and an introduction to historical language change involving the relationship among Greek, Latin, and Romance languages, and Germanic languages (particularly English). This course is not to be taken in addition to GRK ANC 2151.

LATIN 2190 Special Readings: 1-3 semester hours

prerequisite: LATIN 2101 and consent of department. Independent study through readings, reports and conferences.

Spanish Courses

SPANISH 1001 Spanish Language and Culture I: 5 semester hours

This first Spanish course is designed to encourage the development of communicative proficiency through an integrated approach to the teaching of all four language skills - listening and understanding, reading, writing, and speaking. It encourages development of communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they develop their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. SPANISH 1001, SPANISH 1002, and SPANISH 2101 together form the introductory Spanish language sequence. Note: Intended for students with no previous Spanish experience. Students with previous Spanish experience are expected to contact the department for placement advising.

SPANISH 1002 Spanish Language and Culture II: 5 semester hours

Prerequisite: SPANISH 1001 or equivalent. This second Spanish course is designed to continue the development of communicative proficiency through an integrated approach to the teaching of all four language skills - listening and understanding, reading, writing, and speaking. It encourages development of communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they strengthen their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. SPANISH 1001, SPANISH 1002, and SPANISH 2101 together form the introductory Spanish language sequence.

SPANISH 1199 Special Topics: Language Immersion: Spanish: 1-3 semester hours

Prerequisites: SPANISH 1002 or equivalent. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated, provided the topics vary, for a maximum of 3 credits.

SPANISH 2101 Spanish Language And Culture III: 3 semester hours

Prerequisites: SPANISH 1002 or equivalent. This third Spanish course is designed to further develop communicative proficiency through an integrated approach to the teaching of all four language skills - listening and understanding, reading, writing, and speaking. It continues the development of communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they strengthen their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. Students will complete a final project that demonstrates the knowledge acquired through the basic language sequence. SPANISH 1001, SPANISH 1002, and SPANISH 2101 together form the introductory Spanish language sequence. Successful completion fulfills the foreign language requirement for Bachelor of Arts candidates. Students who have successfully completed this course may advance to SPANISH 2172/ SPANISH 2172A or SPANISH 2180/ SPANISH 2180A.

SPANISH 2111 Spanish American Literature In Translation: 3 semester hours

Prerequisite: Sophomore standing. Lectures on the literature and culture of Spanish America. Reading and discussion of works of representative poets, novelists and essayists of the contemporary period. No credit toward major in spanish.

SPANISH 2115A Intensive Spanish Language and Culture: 5 semester hours

Prerequisite: Special consent required. Contact department for information. This intensive study of Spanish is equivalent to SPANISH 1001, SPANISH 1002, and SPANISH 2101, and is offered in a condensed format. It is designed to develop communicative proficiency through an integrated approach to the teaching of all four language skills: listening and understanding, reading, writing, and speaking. It develops communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they build their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. Students will complete a final project that demonstrates the knowledge acquired through the basic language sequence. Successful completion of SPANISH 2115A, SPANISH 2115B and SPANISH 2115C fulfills the foreign language requirement for Bachelor of Arts candidates. Students who have successfully completed this course may advance to SPANISH 2172/ SPANISH 2172A or SPANISH 2180/ SPANISH 2180A. SPANISH 2115A, SPANISH 2115B and SPANISH 2115C are co-requisites and must be taken concurrently. All three must be completed with a grade of C- or better to satisfy the foreign language requirement.

SPANISH 2115B Intensive Spanish Language and Culture: 5 semester hours

Prerequisite: Special consent required. Contact department for information. This intensive study of Spanish is equivalent to SPANISH 1001, SPANISH 1002, and SPANISH 2101, and is offered in a condensed format. It is designed to develop communicative proficiency through an integrated approach to the teaching of all four language skills: listening and understanding, reading, writing, and speaking. It develops communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they build their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. Students will complete a final project that demonstrates the knowledge acquired through the basic language sequence. Successful completion of SPANISH 2115A, SPANISH 2115B and SPANISH 2115C fulfills the foreign language requirement for Bachelor of Arts candidates. Students who have successfully completed this course may advance to SPANISH 2172/ SPANISH 2172A or SPANISH 2180/ SPANISH 2180A. SPANISH 2115A, SPANISH 2115B and SPANISH 2115C are co-requisites and must be taken concurrently. All three must be completed with a grade of C- or better to satisfy the foreign language requirement.

SPANISH 2115C Intensive Spanish Language and Culture: 3 semester hours

Prerequisite: Special consent required. Contact department for information. This intensive study of Spanish is equivalent to SPANIS 1001, SPANISH 1002, and SPANISH 2101, and is offered in a condensed format. It is designed to develop communicative proficiency through an integrated approach to the teaching of all four language skills: listening and understanding, reading, writing, and speaking. It develops communicative proficiency through an interactive task-based approach, provides students with an active and rewarding learning experience as they build their language skills and cultural competency, and fosters awareness of the Spanish-speaking world through authentic cultural materials and information. Students will complete a final project that demonstrates the knowledge acquired through the basic language sequence. Successful completion of SPANISH 2115A, SPANISH 2115B and SPANISH 2115C fulfills the foreign language requirement for Bachelor of Arts candidates. Students who have successfully completed this course may advance to SPANISH 2172/ SPANISH 2172A or SPANISH 2180/ SPANISH 2180A. SPANISH 2115A, SPANISH 2115B and SPANISH 2115C are co-requisites and must be taken concurrently. All three must be completed with a grade of C- or better to satisfy the foreign language requirement.

SPANISH 2171 Spanish Conversation And Pronunciation: 3 semester hours

Prerequisite: SPANISH 2101 or equivalent. Emphasis will be placed upon the development of oral skills in Spanish and upon the problems of Spanish pronunciation and intonation.

SPANISH 2172 Spanish Composition: 3 semester hours

Prerequisite: SPANISH 2101 or equivalent. Emphasis in developing the capacity and the ability to write in Spanish. To be taken concurrently with the online course SPANISH 2172A.

SPANISH 2172A Grammar for Spanish Composition: 1 semester hour Prerequisites: SPANISH 2101 or equivalent. Development of language skills through continued study of the grammatical structures of the Spanish language. To be taken online concurrently with SPANISH 2172.

SPANISH 2175 Commercial Spanish: 3 semester hours

Prerequisites: SPANISH 2101 or equivalent. Students will continue to expand their skills in Spanish within a real-world framework related to business with an emphasis placed on business-related vocabulary and improved public speaking skills in Spanish. No previous business experience is necessary, although this course is perfect for those students pursuing a major or minor in Business, International Business, Marketing, Communication, or any other business-related field. This course may not be taken for credit toward a major, but will count toward a minor in Spanish.

SPANISH 2180 Readings In Spanish: 3 semester hours

Prerequisite: SPANISH 2101 Or Equivalent. Development of language skills through reading and discussion of a variety of texts. To be taken concurrently wit the online course SPANISH 2180A.

SPANISH 2180A Grammar for Readings in Spanish: 1 semester hour Prerequisites: SPANISH 2101 or equivalent. Development of language skills through continued study of the grammatical structures of the Spanish language. To be taken online concurrently with SPANISH 2180.

SPANISH 2190 Special Readings: 1-3 semester hours

Prerequisite: SPANISH 2101 and consent of department. Independent study through readings, reports and conferences.

SPANISH 2199 Special Topics: Language Immersion: Spanish: 1-3 semester hours

Prerequisite: SPANISH 2101 or equivalent. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary, for a maximum of 3 credits.

SPANISH 2199A Spanish Grammar for Language Immersion: 1 semester hour

Prerequisites: SPANISH 2101 or equivalent. Development of language skills through continued study of the grammatical structures of the Spanish language. To be taken online concurrently with SPANISH 2199.

SPANISH 3199 Special Topics: Language Immersion:Spanish: 1-3 semester hours

Prerequisites: 2 of the following 3 courses: SPANISH 2171, SPANISH 2172, SPANISH 2180 or equivalent. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary for a maximum of 3 credits.

SPANISH 3200 Syntax Of The Spanish Language: 3 semester hours Prerequisites: SPANISH 2171, SPANISH 2172, SPANISH 2180 (2 of the 3 courses) or equivalent. Study of the syntactical and morphological characteristics of the Spanish language. Designed primarily for students majoring in Spanish.

SPANISH 3210 Hispanic Culture And Civilization: Spain: 3 semester hours

Prerequisites: SPANISH 2171, SPANISH 2172, SPANISH 2180 (2 Of The 3 Courses) Or Equivalent. The Development Of Spanish Peninsula Civilization From Its Romantic Beginnings To The Present.

SPANISH 3210A Spanish Grammar for Hispanic Culture and Civilization; Spain: 1 semester hour

Prerequisites: SPANISH 2171, SPANISH 2172, or SPANISH 2180 (2 of the 3 courses) or equivalent. Development of language skills through continued study of the grammatical structures of the Spanish language. To be taken online concurrently with SPANISH 3210.

SPANISH 3211 Hispanic Culture And Civilization: Spanish America: 3 semester hours

Prerequisites: SPANISH 2171, SPANISH 2172, SPANISH 2180 (2 of the 3 courses) or equivalent. The development of the cultures and civilization of the Spanish speaking nations of the western hemisphere.

SPANISH 3211A Spanish Grammar for Hispanic Culture and Civilization: Spanish America: 1 semester hour

Prerequisites: SPANISH 2171, SPANISH 2172, or SPANISH 2180 (2 of the 3 courses) or equivalent. Development of language skills through continued study of the grammatical structures of the Spanish language. To be taken online concurrently with SPANISH 3211.

SPANISH 3215 Practicum In Spanish: 3 semester hours

Prerequisites: 2 of the following: SPANISH 2171, SPANISH 2172, SPANISH 2180 or equivalent, or consent of the instructor. This course introduces students to the Hispanic/Latino cultures in the US through community service and academic work. Students will perform a minimum of 20 hours per semester of supervised fieldwork in local organizations that serve area Hispanics. Students will study several issues related to the community they serve, will reflect on their field experience, and will connect their field experience with class readings and discussions. Required weekly seminar accompanies the field experience. Designed for majors of various disciplines. Placement at the agencies is relevant to the enrolled student's.

SPANISH 3260 Spanish For Business: 3 semester hours

Prerequisites: SPANISH 2171 or SPANISH 2172 or equivalent and SPANISH 3200 or permission of the instructor Cultivation of advanced language skills with emphasis on business vocabulary, basic business and cultural concepts and situational practice to help prepare for interaction in the Spanish-speaking business world. Designed for international business students, economics students, or anyone interested in expanding their awareness of the Spanish language or wishing to explore the possibilities of positions with companies that need to conduct business in Spanish.

SPANISH 3271 Advanced Spanish Conversation: 3 semester hoursPrerequisite: SPANISH 2171 or consent of department. Emphasis will be placed upon the further development of oral skills in Spanish.

SPANISH 3280 Introduction To Hispanic Literature: Spain: 3 semester hours

Prerequisites: SPANISH 2171, SPANISH 2172, SPANISH2180 (2 of the 3 courses) or equivalent and SPANISH 3200 or two of the following: SPANISH 2172A, SPANISH 2180A, SPANISH 3210A, SPANISH 3211A. A survey course that introduces students to a rich variety of Peninsular texts ranging from the early Hispano-Arabic texts, through the Middle Ages, the Golden Age, and finally, modern Peninsular literature. The focus is on texts and excerpts that will familiarize students with the major movements and styles of Peninsular literature. The socio-political contexts in which the works were written will be studied. Required of Spanish majors. SPANISH 2180 is recommended for prerequisite.

SPANISH 3281 Introduction To Hispanic Literature: Spanish America: 3 semester hours

Prerequisites: SPANISH 2171, SPANISH 2172, SPANISH 2180 (2 of the 3 courses) or equivalent and SPANISH 3200 or two of the following: SPANISH 2172A, SPANISH 2180A, SPANISH 3210A, SPANISH 3211A.A survey course that introduces students to selected texts of Spanish-American writers from the colonial period to the present. The focus is on texts and excerpts that will familiarize students with the major movements and styles of Spanish-American literature. The socio-political contexts in which the works were written will also be studied. Required of Spanish majors. SPANISH 2180 is recommended for prerequisite.

SPANISH 3290 Special Readings: Spanish: 1-3 semester hours
Prerequisite: Consent of department. Independent study through readings, reports and conferences.

SPANISH 3311 Introduction to Special Topics in Hispanic Culture: 3 semester hours

Prerequisites: Two of SPANISH 2172, SPANISH 2180 or SPANISH 2199 and two of the following SPANISH 2172A, SPANISH 2180A, or SPANISH 2199A or equivalent. Selected topics in Hispanic culture taught in Spanish. This course may be repeated twice for credit provided that the topic is different each time.

SPANISH 3326 Introduction to Hispanic Linguistics: 3 semester hours

Prerequisites: SPANISH 2172 with SPANISH 2172A, and one of the following: SPANISH 2180 with SPANISH 2180A, or SPANISH 2199 with SPANISH 2199A; or the equivalent. Students will develop an understanding of the basic aspects and tools of analysis in the primary areas of linguistics as applied to the Spanish language, including phonetics and phonology, morphology, syntax, semantics, pragmatics, and sociolinquistics.

SPANISH 3327 Introduction to Hispanic Dialectology: 3 semester hours

Prerequisites: SPANISH 2172 with SPANISH 2172A, and one of the following: SPANISH 2180 with SPANISH 2180A, or SPANISH 2199 with SPANISH 2199A; or the equivalent. Students will develop awareness of the different dialects and colloquialisms found in the Spanish-speaking world.

SPANISH 4172 Introduction To Creative Writing In Spanish: 3 semester hours

Prerequisites: SPANISH 3280 or SPANISH 3281 (junior status) or consent of instructor. This course will be presented in two parts. First, students will read literature samples and discuss theory for creative writing; and second, they will explore their own creativity by writing poetry, essays and short stories through exercises and examples given by the instructor.

SPANISH 4199 Special Topics: Language Immersion: 1-3 semester hours

Prerequisites: SPANISH 3280 or SPANISH 3281 or equivalent. Faculty-led experience designed specifically to enhance acquisition of the target language and culture. This course may be repeated for credit if the topics vary, for a maximum of 3 credits.

SPANISH 4300 Advanced Grammar: 3 semester hours

SPANISH 4310 Spanish Literature From 1898 To 1939: 3 semester hours

Prerequisite: SPANISH 3280. A study of cultural and literary characteristics of the period. Emphasis on leading novelists, poets, essayists and dramatics.

SPANISH 4311 Special Topics In Hispanic Culture: 3 semester hours Prerequisites: SPANISH 3280, or SPANISH 3281 or junior standing. Selected topics in Hispanic culture taught in Spanish. This course may be repeated for credit provided the topic is different each time.

SPANISH 4312 Special Topics in Hispanic Literature: 3 semester hours

Prerequisites: Junior standing or SPANISH 3280 or SPANISH 3281. Selected topics in Hispanic literature taught in Spanish. This course may be repeated for credit provided that the topic is different each time.

SPANISH 4315 Spanish Literature From 1939 To The Present: 3 semester hours

Prerequisite: SPANISH 3280. A study of cultural and literary development since the Spanish Civil War. Emphasis on leading novelists and dramatists.

SPANISH 4323 Spanish Second Language Acquisition: 3 semester hours

Prerequisites: SPANISH 3326 or equivalent, or by instructor approval. This course provides an introduction to the theoretical and methodological foundations of second language acquisition of Spanish. Key topics in the field such as learner strategies, the role of formal instruction, target language input, influence from the first language, and effects of study abroad are addressed. Students read and critique relevant literature on the acquisition of different phonological, morphosyntactic, lexical, and discourse features of Spanish as a second language. Small-scale analyses of Spanish interlanguage data are also conducted. Course taught in Spanish.

SPANISH 4325 Poetry And Drama Of The Golden Age: 3 semester hours

Prerequsite: SPANISH 3280. Selected readings from the drama of Lope de Vega, Tirso de Molina, Ruiz de Alarcon, Calderon de la Barca and from the poetry of Garcilaso, Fray Luis de Leon, San de la Cruz, Gongora, Lope de Vega, and Quevedo.

SPANISH 4326 Applied Linguistics In Spanish: 3 semester hours

Prerequisites: SPANISH 3200 or equivalent. Study of the general principles of linguistics applied to the learning and teaching of Spanish with special emphasis on historical linguistics. The course will focus on the development of the Spanish language with emphasis on etymological and phonological changes. Recommended for prospective teachers of Spanish.

SPANISH 4328 Spanish Phonetics and Phonology: 3 semester hours

Prerequisistes: SPANISH 3326 or equivalent. This course, taught in Spanish, is a detailed study of the sound system of Spanish. The course includes an articulatory and acoustic description of Spanish sounds and suprasegmental features (including stress and intonation patterns). Students will learn to represent Spanish speech sounds and patterns through transcription. The course additionally incorporates a comparison of English and Spanish sound systems along with an introduction to major differences in pronunciation across different varieties of Spanish.

SPANISH 4330 Cervantes: 3 semester hours

Prerequisite: SPANISH 3280. A study of Don Quixote in relation with author's life and with the cultural background of the Spanish Golden Age. Independent readings on other works of Cervantes.

SPANISH 4331 Picaresque And Satirical Prose (1550-1650): 3 semester hours

Prerequisite: SPANISH 3280. A study of Renaissance and Baroque prose in its social context. All readings and discussions on Spanish.

SPANISH 4345 Spanish American Literature Of The Twentieth Century: 3 semester hours

Prerequisite: SPANISH 3281. A study of the leading Spanish American poets, essayists and novelists of this period as interpreters of contemporary man's dilemma and the "pathos" and "ethos" of their culture.

SPANISH 4351 Spanish American Fiction In The Twentieth Century: 3 semester hours

Prerequsite: SPANISH 3281. The role of prose fiction in Spanish American literary and cultural history from World War I to the present.

SPANISH 4390 Special Readings: 1-3 semester hours

Prerequisite: Consent of instructor. Independent study through readings, reports and conferences.

SPANISH 4399 Seminar On Hispanic Literature: 3 semester hoursRequired of major students in the senior year. Subject to be announced every year by the instructor in charge of the seminar.

SPANISH 5172 Introduction to Creative Writing in Spanish: 3 semester hours

Prerequisites: Graduate Standing or permission of instructor. This course will be presented in two parts. First, students will read literature samples and receive theory for creative writing; and second, they will explore their own creativity by writing poetry, essays and short stories through exercises and examples given by the instructor.

SPANISH 5199 Intensive Advanced Immersion Experience: 1-3 semester hours

Prerequisites: In-service teacher of target language or enrollment in post degree completion programBulletin description: Designed for inservice and pre-service/post baccalaureate foreign language teachers, this course focuses specifically on enhancing oral proficiency in the target language and enriching cultural knowledge for purposes of classroom language instruction. The course may simulate a study abroad immersion experience or may be taught within the context of a study abroad program. This course may be repeated, provided the topics vary, for a maximum of 3 credits.

SPANISH 5300 Advanced Spanish Grammer: 3 semester hours

SPANISH 5311 Advanced Topics In Spanish Culture: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. Selected topics in Spanish culture; may be repeated for credit with a different topic. Students will be expected to conduct an independent research project. Language of instruction is Spanish.

SPANISH 5312 Advanced Topics in Hispanic Literature: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. Selected topics in Hispanic literature taught in Spanish. This course may be repeated for credit provided that the topic is different each time.

SPANISH 5323 Spanish Second Language Acquisition: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. This course, taught in Spanish, provides an introduction to the theoretical and methodological foundations of second language acquisition on Spanish. Key topics in the field are illustrated through examples from Spanish, such as learner strategies, the role of formal instruction, target language input, influence from the first language, and effects of study abroad. Students read and critique relevant literature on the acquisition of different phonological, morphosyntactic, lexical, and disclosure features of Spanish as a second language. Analyses of Spanish interlanguage data are also conducted.

SPANISH 5328 Spanish Phonetics and Phonology: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. This course, taught in Spanish, is a detailed study of the sound system of Spanish. The course includes an articulatory and acoustic description of Spanish sounds and suprasegmental features (including stress and intonation patterns). Students read and critique state-of-the-art experimental research on second language Spanish phonology and conduct analyses of Spanish phonological data. The course additionally incorporates a comparison of English and Spanish sound systems along with an introduction to major differences in pronunciation across different varieties of Spanish.

Sociology

General Information

Degrees and Areas of Concentration

Sociology is the discipline that addresses the most pressing and controversial social issues of our times. The Sociology program is committed to undergraduate education in the techniques and insights of sociological inquiry. Through research and scholarship, the department contributes to informed public policy and stimulates discussion about the challenges of urban life and globalization. Our commitment to these ends advances the University's mission to meet the diverse needs of the state's largest metropolitan area.

The Sociology program offers courses leading to the B.A. in sociology and the B.S. in sociology, and a minor. The sociology minor is an excellent choice to combine with a second minor to create a Bachelor of Liberal Studies B.A., which can be completed on-campus or online. Students may choose to supplement their core education in sociology with coursework in other areas of their choice, such as African and Africana studies, anthropology, criminology and criminal justice, East Asian Studies, gender studies, gerontology, international studies, or trauma studies.

Student Experience

Students receive training in a variety of social research methods, including questionnaire survey research, social statistical analysis, qualitative

methods, and ethnographic fieldwork. They also have the opportunity to gain hands-on experience in urban community-based research.

Sociology students work with faculty who conduct research in Japan, South Africa, the St. Louis area, and on the internet. They research topics such as urban youth violence, Japanese business and society, new media and the role of technology in society. Students also have the opportunity to study with faculty in the Anthropology program, who work in China, Japan, Ghana, and elsewhere, on topics such as gender, aging, sport, language, and girls' culture.

The Sociology program is a leader of the University of Missouri system in innovative online education. Several courses offer the flexibility of attending an in-class lecture or accessing the lecture and course material online, according to the individual's schedule.

Department Awards and Honors

The Alumni Agent Scholarship and the Sociology Alumni Scholarship are awarded by faculty annually on the basis of merit. In addition, one outstanding senior, junior, and freshman are recognized annually based on merit. The Outstanding Sociology Minor Award is presented to the graduating student with the most outstanding minor GPA record.

Department Honors in Sociology are awarded to B.A. and B.S. degree candidates in sociology with an overall grade point average of 3.2 or better, who have completed SOC 4350, Special Study.

Career Outlook

The Sociology Program teaches the transferable job skills that enable students to rationally analyze social issues and arrive at effective solutions. These skills are valuable for careers in health and social services; human resources; community planning; non-profit leadership; consumer marketing research and consulting; and jobs involving social research in corporate, non-profit, and government settings. Sociology also provides a solid foundation for graduate school in any of the social sciences, and for professional training in fields such as law, medicine, and social work.

Undergraduate Studies General Education Requirements

Students must satisfy the university and college General Education requirements (p. 28). Courses in sociology may be used to meet the social science requirement. The foreign language requirement for the B.A. degree may be satisfied in any language. No course in which a grade below a C- is received will count toward satisfying the core requirement.

Learning Goals and Outcomes

At the end of the program, students should have these competencies:

- Graduates will understand the discipline of sociology and demonstrate an ability to think critically about society. They will understand the contemporary relevance of basic sociological concepts, including culture, socialization, stratification, social structure, institutions, social change, and globalization.
- Graduates will understand the role of theory in sociology and be able to distinguish micro and macro theory. They will demonstrate an understanding of the role of race, ethnicity, gender, age, and class in social differentiation.

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- Graduates will demonstrate an understanding of the reciprocal relationships between individuals and society, and be able to demonstrate how societal and structural factors influence individual behavior and the development of the self.
- Graduates will be able to explain the sources of urban inequality.
 They will be able to utilize sociological evidence to analyze social policy and make policy recommendations.
- 5. Graduates will master the application of qualitative and quantitative methods to social phenomena, demonstrate mastery of relevant computer and digital research skills, know how to design a community-based research study, and know how to convey data findings in a research report.
- Graduates will be able to describe and apply the principles of ethical practice as a sociologist. They will value the internal diversity of American society and appreciate the role of the U.S. in globalization.

Degree Requirements

Bachelor of Arts in Sociology

General Education Requirements

Majors must satisfy the university and college general education requirements. Any foreign language may be used to meet the language requirement for the B.A. degree.

All required courses for the major must be completed with a grade of C- or better. Courses counting toward the major requirements may not be taken on a satisfactory/unsatisfactory basis.

The following six core courses (18 credit hours) are required:

SOC 1010 (p. Introd	uction To Sociology	3
SOC 2160 (74)	p. Social	l Psychology	3
SOC 3210 (74)	p. Socio	logical Theory	3
SOC 3230 (74)	p. Resea	arch Methods	3
SOC 4307 (74)	p. Comn	nunity-Based Research in Sociology ¹	3
or SOC 404 74)	0 (p. Surve	y Research Practicum for Sociology	
One college	level statisti	cs course from the following list, or anoth	er 3-4
course appr	oved by a de	epartment advisor:	
CRIMIN 2 (p. 74)	2220 Statis Justic	tical Analysis In Criminology And Crimina e	ıl
MATH 11 (p. 74)	05 Basic	Probability And Statistics	
MATH 13 (p. 74)	310 Eleme	entary Statistical Methods	
MATH 13 (p. 74)	320 Applie	ed Statistics I	
PSYCH 2 (p. 74)	2201 Psych	nological Statistics	
SOC 322 74)	0 (p. Social	l Statistics	

In addition to the core courses, five courses at the following levels are required, of which a minimum of three must have the SOC designation (and two may have an ANTHRO designation).

In addition to SOC 1010 (p. 74), 3 credit hours or one course in Sociology numbered 1000-1999 or from the following list of Anthropology courses:

ANTHRO 1011 Introduction To Cultural Anthropology (p. 74)

ANTHRO 1021 The Body In Culture (p. 74)

ANTHRO 1025 World Cultures

(p. 74)

ANTHRO 1041 Sex And Gender Across Cultures

(p. 74)

ANTHRO 1163 Disagreement, Difference, Diversity (p. 74)

3 credit hours or one course in Sociology numbered 2000-2999; or from the following list of Anthropology courses:

ANTHRO 2105 Human Variation

(p. 74)

ANTHRO 2111 Cultures Of East Asia

(p. 74

ANTHRO 2114 Cultures Of The Near And Middle East

(p. 74)

ANTHRO 2120 Native Peoples Of North America

(p. 74)

ANTHRO 2121 Native American Spirituality

(p. 74)

ANTHRO 2123 Cultures Of Oceania

(p. 74)

ANTHRO 2124 Cultures Of Africa

(p. 74)

ANTHRO 2192 Anthropological Perspecitves on Western Culture (p. 74)

In addition to SOC 3210 (p. 74), SOC 3220 (p. 74), and SOC 3230 (p. 74), 3 credit hours or one course in Sociology 3000-3999; or from the following list of Anthropology courses:

ANTHRO 3211 Language and Society

(p. 74)

ANTHRO 3212 Medical Anthropology

(p. 74)

ANTHRO 3215 Aging Across Cultures

(p. 74

ANTHRO 3216 Cognition Across Cultures

(p. 74)

ANTHRO 3235 Women In Subsaharan Africa: A Contemporary

(p. 74) Perspective

ANTHRO 3236 Sex Trafficking in Cross-Cultural Perspective (p. 74)

ANTHRO 3237 Japanese Popular Culture

(p. 74)

ANTHRO 3255 Oral History And Urban Culture In St. Louis

(p. 74)

ANTHRO 3270 Human Ecology, Cultural Collapse, and

(p. 74) Sustainable Developments

ANTHRO 3291 Current Issues In Anthropology (p. 74)

6 credit hours or two courses in Sociology numbered 4000-4999, in addition to SOC 4040 (p. 74) and SOC 4307 (p. 74).

Total Hours

Students who enroll in SOC 4307 (p. 74) must take a section approved by the department.

The total number of hours required for the B.A. degree is a minimum of 33. Students may elect to take up to, but not to exceed, 12 additional hours in sociology courses of their choice.

Residency Requirement

Bachelor of Arts majors must complete a minimum of 12 hours of upperlevel (3000-4000) Sociology courses in residence, including SOC 3230 (p. 74) and either SOC 4040 (p. 74) or SOC 4307 (p. 74)

Bachelor of Science in Sociology General Education Requirements

Majors must satisfy the university and college general education requirements. Foreign language proficiency is not required, although students are encouraged to take foreign language courses.

All required courses for the major must be completed with a grade of C- or better. Courses counting toward the major requirements may not be taken on a satisfactory/unsatisfactory basis.

The following six core courses (18 credit hours) are required:

Cara Caurana

Core Courses		
SOC 1010 (p. 74)	Introduction To Sociology	3
SOC 2160 (p. 74)	Social Psychology	3
SOC 3210 (p. 74)	Sociological Theory	3
SOC 3230 (p. 74)	Research Methods	3
SOC 4307 (p. 74)	Community-Based Research in Sociology ¹	3
or SOC 4040 (p. 74)	Survey Research Practicum for Sociology	
ŭ	statistics course from the following list, or another by a department advisor:	3-4

course approved by a department advisor:			
CRIMIN 2220 (p. 74)	Statistical Analysis In Criminology And Criminal Justice		
MATH 1105 (p. 74)	Basic Probability And Statistics		
MATH 1310 (p. 74)	Elementary Statistical Methods		
MATH 1320 (p. 74)	Applied Statistics I		
PSYCH 2201 (p. 74)	Psychological Statistics		
SOC 3220 (p 74)	. Social Statistics		

In addition to the core courses, seven courses at the following levels are required, of which a minimum of five must have the SOC 33-34 designation (and two may have an ANTH designation).

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In addition to SOC 1010 (p. 74), 6 credit hours or two courses in Sociology numbered 1000-1999 or from the following list of Anthropology courses:

ANTHRO 1011 Introduction To Cultural Anthropology (p. 74)

ANTHRO 1021 The Body In Culture

(p. 74)

ANTHRO 1025 World Cultures

(p. 74)

ANTHRO 1041 Sex And Gender Across Cultures

(p. 74)

ANTHRO 1163 Disagreement, Difference, Diversity (p. 74)

3 credit hours or one course in Sociology numbered 2000-2999; or

from the following list of Anthropology courses:

ANTHRO 2105 Human Variation

(p. 74)

ANTHRO 2111 Cultures Of East Asia

(p. 74)

ANTHRO 2114 Cultures Of The Near And Middle East

(p. 74)

ANTHRO 2120 Native Peoples Of North America

(p. 74)

ANTHRO 2121 Native American Spirituality

(p. 74)

ANTHRO 2123 Cultures Of Oceania

(p. 74)

ANTHRO 2124 Cultures Of Africa

(p. 74)

ANTHRO 2191 Special Topics In Non-Western Culture

(p. 74)

ANTHRO 2192 Anthropological Perspecitves on Western Culture

(p. 74)

In addtion to SOC 3210 (p. 74), SOC 3220 (p. 74), and SOC 3230 (p. 74); 3 credit hours or one course in Sociology numbered 3000-3999, or from the following list of Anthropology

ANTHRO 3211 Language and Society

(p. 74)

ANTHRO 3212 Medical Anthropology

(p. 74)

ANTHRO 3215 Aging Across Cultures

(p. 74)

ANTHRO 3216 Cognition Across Cultures

(p. 74)

ANTHRO 3235 Women In Subsaharan Africa: A Contemporary

Perspective (p. 74)

ANTHRO 3236 Sex Trafficking in Cross-Cultural Perspective (p. 74)

ANTHRO 3237 Japanese Popular Culture

(p. 74)

ANTHRO 3255 Oral History And Urban Culture In St. Louis (p. 74)

ANTHRO 3270 Human Ecology, Cultural Collapse, and (p. 74) Sustainable Developments

ANTHRO 3291 Current Issues In Anthropology (p. 74)

in addition to SOC 4040 (p. 74) and SOC 4307 (p. 74), 9 credit hours or three courses in Sociology numbered 4000-4999.

Total Hours

Students who enroll in SOC 4307 (p. 74) must take a section approved by the department.

The total number of hours required for the B.S. degree is a minimum of 39. Students may elect to take up to, but not to exceed, 12 additional hours in sociology courses of their choice.

Residency Requirement

Bachelor of Science majors must complete a minimum of 15 hours of upper-level (3000-4000) Sociology courses in residence, including SOC 3230 (p. 74) and either SOC 4040 (p. 74) or SOC 4307 (p. 74).

B.A. or B.S. in Sociology with Teacher Certification

Students must complete the B.A. or B.S. in sociology requirements, as well as the requirements for teacher certification. (See the College of Education section of this Bulletin.)

Requirements for the Minor

A minimum of 15 credit hours is required, of which a minimum of 12 hours must be in sociology. Three credit hours may be counted toward the minor from among the list of UMSL anthropology courses that are allowed for the sociology BA and BS majors. Candidates must have a cumulative grade point average of 2.0 or better in all courses pertaining to the minor. Department courses taken on a satisfactory/unsatisfactory basis may not be applied to the minor.

A minimum of 6 hours must be at the 4000 level (no more than 3 hours of either SOC 4350 (p. 74), Special Study, or SOC 4385 (p. 74), Internship, may be applied to this 4000 level requirement).

At least 9 credit hours must be courses offered by UMSL's Sociology program and must be beyond those applied to the candidate's major.

Candidates are encouraged to take some or all of the core requirements for the major.

For the capstone course requirement, students in the Bachelor of Liberal Studies program must take one additional 4000 level course in Sociology not used in the minor, excluding SOC 4350 (p. 74) (Special Study) or SOC 4385 (p. 74) (Internship).

Courses

SOC 1010 Introduction To Sociology: 3 semester hours

An introduction to sociological approaches to human behavior including types of social organizations, patterns of social interaction, and social influences on individual conduct.

SOC 1040 Social Problems: 3 semester hours

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Conditions defined by society as social problems, as well as potential solutions, are examined from various sociological perspectives. Emphasis is given to problem issues prevalent in metropolitan settings. Analyses focus on victims and beneficiaries of both problem conditions and alternative solutions.

39-40 SOC 1061 Religion in Contemporary Society: 3 semester hours

This course covers the impact of religion on political, social, cultural, and economic institutions. It examines the role of religion in contemporary social life, including the relationship between gender, ethnicity, race, class and religion; the contested place of religion in secularization and modernization; and the role of religion in political conflict.

SOC 1091 Introductory Topics in Sociology: 3 semester hours

This course features special and current topics at the introductory level in the field of sociology. Examines the basic concepts and provides an understanding of the development of new trends and areas of study. May be repeated provided topic is different.

SOC 1241 Globalization and Social Change: 3 semester hours

Introduces sociological approaches to globalization. Covers sociological concepts such as modernization, Westernization, global capitalism, and the information society. Themes include global governance and transnational society, the global diffusion of American popular culture and consumer culture, and the role of new media. Also discusses the antiglobalization movement and forms of social resistance.

SOC 1999 The City: 3 semester hours

This course explores the central role of cities in the modern world. Covers processes of urbanization such as immigration, segregation and ghettoization, suburbanization, and sprawl. Explores the consequences of urban inequality and issues related to race and ethnicity, class, and gender in an urban context. Also covers urban landscapes, demographics, and lifestyles; and cities as centers of music and other forms of popular culture.

SOC 2100 Women In Contemporary Society: 3 semester hours

Prerequisites: SOC 1010 or consent of instructor. An introduction to the sociological analysis of the status of women in society, including their work, family, and political roles. Socialization, education, and the women's movement will also be considered, as these affect the position and participation of women in a variety of social arenas.

SOC 2102 Introduction To Gender Studies: 3 semester hours

Same as GS 2102, SOC WK 2102, and HIST 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

SOC 2103 Gender Roles In Society: 3 semester hours

Prerequisite: SOC 1010. The study of social processes through which gender roles are developed and acquired; the impact of gender roles on personal identity and social conduct; the relationship between gender roles and social inequality; and individual and social consequences of changing gender roles in contemporary society.

SOC 2160 Social Psychology: 3 semester hours

Same as PSYCH 2160. Prerequisite: PSYCH 1003 or SOC 1010. This course examines the behavior, thoughts, and feelings of individuals in their social environments. The content focuses not only on how people relate to one another, but also on the processes affecting their interactions with others. Specific topics include the self, social judgments, attitudes and persuasion, helping behavior, prejudice, aggression, attraction, conformity and obedience, and group processes. All Psychology majors taking this course instead of PSYCH 2270 must complete it with a grade of C- or higher.

SOC 2180 Alcohol, Drugs And Society: 3 semester hours

Same as CRIMIN 2180. Prerequisite: SOC 1010 or PSYCH 1003. This course examines the medical, legal and social aspects of alcohol and drug use. Medical aspects considered include treatment approaches and the role of physicians in controlling such behavior. In the legal realm, past and present alcohol and drug laws are explored. Cultural and social influences on alcohol and drug use are discussed.

SOC 2192 Special Topics in Sociology: 3 semester hours

This course focuses on a specific society or group of societies utilizing sociological approaches. Examines environmental, economic, social, political, ethnic, religious, linguistic and/or cultural domains. Students are exposed to basic sociological concepts for understanding diverse societies in their historical and/or contemporary contexts. May be repeated provided topic is different.

SOC 2200 Languages and World View: 3 semester hours

Same as FGN LANG 2100 and ANTHRO 2100. Prerequisites: Completion of two semesters of one foreign language at the college level. This course investigates the extent to which peoples' linguistic and cultural background informs their understanding of the world. Experts on a variety of major Western and non-Western languages will introduce students to differences in ideas about time, space, human relationships, and other issues based on language. The course will also analyze common cultural misunderstandings among native speakers of English and speakers of other languages.

SOC 2201 Deviance and Society: 3 semester hours

The study of traits and behaviors that violate social norms and elicit negative reactions. Explores the establishment of categories of deviance; the motivations behind deviant behavior; the identification of individuals and groups as deviant; the effects of institutionalization and social control upon the deviant; and the efforts of deviants to eradicate the label society has placed upon them.

SOC 2202 Urban Sociology: 3 semester hours

Covers classical works and contemporary theories in urban sociology from the nineteenth to the twenty-first centuries. Examines urbanism and community, forms and functions of cities, inequality and social difference, gender and sexuality, globalization and urban change, immigration and its impact on cities, and urban exclusion/social resistance. Includes reading well-known ethnographic works on such topics as sex work, homelessness, drug users and crackhouses, life in corner bars, gang members, and other alternative subcultures.

SOC 2224 Marriage And The Family: 3 semester hours

Same as GS 2224. The study of patterns of close relationships, and how these relationships are influenced by larger social forces. Topics include love, dating, mate selection, cohabitation, alternative lifestyles, working families, parenting, single mothers, families in crisis, domestic violence, and divorce. Universal and variable aspects of family organization, family role systems, and changes in family social structure are considered.

SOC 2280 Society And Technology: 3 semester hours

Examines the role of technology in the development of today's industrial and post-industrial societies. Topics include the social and cultural origins of technological innovation; the connection between technology and urbanization; and the impact of technological change on beliefs and values. Outlines the transition from industrial society to the post-industrial "information society," and the role of technology in globalization.

SOC 2316 Power, Ideology And Social Movements: 3 semester hours

This course explores how power and ideology operate in the advanced modern world. It investigates the historical and institutional contexts that help explain uprisings and discontents in the twentieth and twenty-first centuries, such as the Occupy Wall Street movement, the political struggles in the Middle East, and the uprisings and social movements throughout Latin America. Topics include an overview of the key works of Marxist theory and major radical social thinkers. Among the issues examined is the potential for social movements to produce revolutionary action resulting in new social systems.

SOC 2338 Health & Society: 3 semester hours

Exploration of social dimensions and issues related to health and illness such as access to the health care delivery system; factors influencing prevention, utilization and compliance; changing relationships among health care providers and consumers; health care costs, trends, and cross-cultural variations.

SOC 3210 Sociological Theory: 3 semester hours

Prerequisite: SOC 1010 or consent of instructor. The nature of sociological theory. An investigation of theory from Comte through contemporary developments. Contributions made by theorists in related disciplines.

SOC 3211 Language and Society: 3 semester hours

Same as ANTHRO 3211. Prerequisites: ANTHRO 1011 or SOC 1010 or consent of instructor. Variable topics in the subfield of linguistic anthropology will be explored. The focus of the course may include study of communication as part of our evolutionary heritage, the use of language as an index of social and cultural change, language and gender, or other topics.

SOC 3220 Social Statistics: 3 semester hours

Same as ANTHRO 3220. Prerequisite: SOC 1010 or ANTHRO 1011 and MATH 1020 or MATH 1030. Issues and techniques of statistical analysis relevant to quantitative sociological research e.g. elementary probability, measurements of central tendency and dispersion, measures of relationships including linear regression and correlation, inferential and nonparametric statistics. The course includes an introduction to computer-based statistical analysis.

SOC 3224 Families in Global Perspective: 3 semester hours

SAME AS GS 3224. Prerequisites: SOC 1010 or consent of instructor. This course presents research from the fields of demography, sociology, economics, and public policy in order to develop a broader understanding of the causes and consequences of population aging, one of the major demographic changes faced by social institutions worldwide. Attention to the global diversity of human experiences by age, gender, socioeconomic status, and health.

SOC 3230 Research Methods: 3 semester hours

Prerequisites: SOC 1010 and satisfaction of mathematics proficiency requirement or consent of instructor. Research planning and interpretation, principles of research design, measurement, and sampling. Techniques for the collection, analysis, and presentation of data. The course also includes an introduction to the Statistical Package for the Social Sciences (SPSS) and lab exercises.

SOC 3240 Selected Topics In Micro-Sociology: 1-3 semester hours

Prerequisite: SOC 1010 or consent of instructor. Examination of a specific sociological topic that focuses on small groups and interpersonal relations. May be taken more than once for credit provided the topic of the course is different each time.

SOC 3250 Sociology Of Victimization: 3 semester hours

Same as GS 3250. Prerequisite: SOC 1010. This course examines the role of social factors in a wide rang of kinds of victimization--crime, violence, natural disasters, accidents, disease, etc. The topic of social reactions to various kinds of victimization is also covered. Sociological theories of victimization are emphasized.

SOC 3260 Social Interaction In Small Groups: 3 semester hours Prerequisites: SOC 2160 or PSYCH 2160 or consent of instructor. Analysis of human interaction with emphasis on group problem solving, group structure, and group process.

SOC 3268 The Sociology Of Conflict: 3 semester hours

Prerequisite: SOC 1010 or consent of instructor. The conditions under which social conflicts arise, develop, and are terminated (or in some cases resolved) are examined. The functions of different levels of conflict are studied to determine the potential effects and outcomes of planned invervention.

SOC 3280 The Networked Society: 3 semester hours

Prerequisites: SOC 1010, ANTHRO 1011, or introductory course in another social science, or consent of instructor. Explores the effects of modern information technology on societies worldwide. Covers the ways in which new technologies of communication have created increasingly networked local and global societies, as well as to the ways in which they have created new social problems.

SOC 3291 Current Issues in Sociology: 3 semester hours

Prerequisites: Prerequisite: SOC 1010 or ANTHRO 1011, or consent of instructor. Selected topics in sociology, with emphasis on current issues and trends in the field. May be repeated provided topic is different.

SOC 3344 Problems Of Urban Community: 3 semester hours

Prerequisite: SOC 1010, junior standing or consent of instructor. Issues of inequality and identity in cities, with emphasis on the consequences of urban growth; processes of class, racial, and ethnic group formation; and urban poverty. Also covers local community organization and politics, and the role of popular culture and religion in community identities.

SOC 3600 Management and Organizational Behavior: 3 semester hours

Same as MGMT 3600. Prerequisites: Junior standing and a 2.0 campus GPA. This course involves the study of the behavior of individuals and groups in an organizational setting. Specific topics examined include: motivation, leadership, organizational design, and conflict resolution, as well as basic coverage of management principles. In covering these topics, both classic and current perspectives are provided.

SOC 4040 Survey Research Practicum for Sociology: 3 semester hours

Prerequisite: Junior standing, SOC 3230, college-level statistics course, and consent of instructor. The execution of a sample survey, including establishing study objectives, sampling, questionnaire construction, interviewing, coding, data analysis, and presentation of results. May be repeated provided the course topic is different.

SOC 4100 Introduction to Feminist and Gender Theory: 3 semester hours

Same as GS 4100. Prerequisites: GS 2102. This class serves as an initial intellectual investigation into gendered ideologies (such as the effects of race, ethnicity, nationality, socioeconomic class, sexuality, and religion) and functions as a bridge to later advanced gender theory and methods courses. Topics include interdisciplinary feminist theories (with a focus on gender equality), including masculinity theory, queer theory, muted group theory, and other evolving frameworks.

SOC 4150 Feminist Theory and Social Research: 3 semester hours Same as GS 4150. Prerequisites: GS 2102 and Junior Standing or consent of instructor. This course provides an in-depth examination of feminist theoretical contributions to social science research. We begin by examining the 20th century roots of contemporary feminist theories. With these foundations in place, we then shift to an investigation of how feminist theory has informed sociological research by examining current feminist understandings of gender, race, class and sexual inequalities across a range of contemporary social problems. Fulfills WGS feminist theory requirement.

SOC 4160 Geographic Information Systems in Anthropology & Sociology: 4 semester hours

Same as ANTHRO 4160. Prerequisites: ANTHRO 1005 or ANTHRO 1011 or ANTHRO 1019 or SOC 1010 or consent of instructor. Instruction in use of GIS software to record and analyze findings in archaeology, biological anthropology, cultural anthropology, and sociology. Emphasis is placed upon research design, development of data collection methodologies, and the use of GIS in describing and explaining human behavior and its relationship to the physical environment.

SOC 4300 Communities And Crime: 3 semester hours

Same as CRIMIN 4300. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, ENGL 3100 or consent of instructor. Analysis of the sources, consequences, and control of crime within communities. Emphasis on social and ecological theories of crime, and on population instability, family structure, and the concentration of poverty as causes of crime.

SOC 4307 Community-Based Research in Sociology: 3 semester hours

Prerequisites: Junior standing, SOC 3210, SOC 3230, and completion of junior-level writing requirement. An advanced course in qualitative/ ethnographic modes of inquiry, building on research and analytical skills learned in previous courses. Some quantitative methods may supplement the research when appropriate. Students experience the process of discovery, representation, presentation, and justification based on fieldwork and/or archival research. The focus is on applying sociological knowledge to practical issues faced by communities and institutions in the St. Louis area. May be repeated provided the topic is different.

SOC 4312 Sociology Of Wealth And Poverty: 3 semester hoursPrerequisite: SOC 1010, junior standing or consent of instructor. Theory and research on social stratification and inequality in contemporary societies.

SOC 4320 Forms Of Criminal Behavior: 3 semester hours
Same as CRIMIN 4320. Prerequisites: CRIMIN 1110, CRIMIN 1120,
CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, ENGL 3100 or consent
of instructor. Examination of major types of criminal behavior including
violent, property, public order, and organizational offenses. Emphasis on
theories of and responses to these crimes.

SOC 4325 Gender, Crime & Justice: 3 semester hours

Same as CRIMIN 4325 and GS 4325. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 1130, CRIMIN 2210, CRIMIN 2220, ENGL 3100 or consent of instructor. Analysis of the role of gender in crime and in the justice system. Emphasis on gender differences in crime commission, criminal processing, and the employment of women in criminal justice agencies. Fulfills Criminology diversity requirement.

SOC 4326 Criminology: 3 semester hours

Prerequisite: Six hours of Sociology or Anthropology. Crime as a social phenomenon. Theory and research concerning the causes of crime.

SOC 4328 Institutions And The Control Of Crime And Delinquency: 3 semester hours

Same as: CRIMIN 3328. Prerequisite: SOC 4326. Institutional responses to crime and delinquency. Theories and programs of rehabilitation and punishment. Organizational conditions affecting behavior of correctional personnel.

SOC 4331 Qualitative Methods In Social Research: 3 semester hours

Prerequisites: Junior Standing, SOC 3230, college-level statistics course; or consent of instructor. This course is devoted to qualitative methods including participant observation, ethnographic fieldwork, intensive interview, content analysis, and oral history. Considers the place of these kinds of techniques in social research, as well as the issues raised by them. Involves participation in individual or group research projects using one or more of the methods learned.

SOC 4336 Sociology of Organizations: 3 semester hours

Prerequisite: SOC 1010 and junior standing or consent of instructor. This course examines the internal and external forces that influence the structures, adaptive flexibility, and actions of public and private organizations and agencies. Specific foci include: organizational responses to opportunities, constraints, and contingencies in their surrounding environments; sources of conflict and impediments to organizational goal attainment; and strategies for increasing organizational effectiveness, efficiency, and chances for survival.

SOC 4340 Race, Crime, And Justice: 3 semester hours

Same as CRIMIN 4340. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, ENGL 3100 or consent of instructor. Analysis of the involvement of racial minorities in crime and the criminal justice system. Emphasis on group differences in offending, processing, victimization, and employment in criminal justice agencies. Fulfills CCJ diversity requirement.

SOC 4350 Special Study: 1-10 semester hours

Prerequisite: Consent of instructor. Independent study through readings, reports, and field work.

SOC 4352 Advanced Principles Of Sociology: 3 semester hours

Prerequisite: SOC 1010, junior standing or consent of instructor. Analysis of the main concepts and principles of sociology and survey of sociology as a social science.

SOC 4354 Sociology Of Business And Work Settings: 3 semester hours

Prerequisite: SOC 1010, junior standing or consent of instructor. The sociology of work and occupations in America, Europe, and Asia; organization structures and worker participation; worker attitude, behaviors, and commitment; the socialization of the worker; determinants of worker behavior; social problems of work and business; and the impact of community on the work place and business behavior.

SOC 4356 Sociology Of Education: 3 semester hours

Prerequisite: SOC 1010 and junior standing, or consent of instructor. Education as a social institution, its role as an agent of socialization, and its effect upon the processes of social change and social mobility. The relationship between the school and its community.

SOC 4360 Sociology Of Minority Groups: 3 semester hours

Same as GS 4360. Prerequisites: SOC 1010 and junior standing or consent of instructor. The study of dominant-subordinate group relations. Religion, ethnicity, race, and gender as factors in the unequal distribution of power.

SOC 4361 Social Gerontology: 3 semester hours

Same as GERON 4361. Prerequisites: SOC 1010 and junior standing or consent of instructor. Topics include: Sociological theories of aging, technological and social change and its effects on the environment of older people, and prejudice and discrimination against the elderly.

SOC 4365 Sociological Writing: 3 semester hours

Prerequisites: SOC 1010, ENGL 3100 and Junior standing, or consent of instructor. This course offers directed practice in the interpretation and reporting of sociological research in a wide range of styles, including those appropriate for research reports, journal articles, policy papers, nontechnical magazines, books and monographs, as well as oral reports to diverse consumers.

SOC 4378 Selected Topics In Social Psychology: 1-3 semester hours Prerequisite: PSYCH 2160 or SOC 2160 or consent of instructor. Focused examination of selected issues, concepts and methods in the study of social interaction. May be taken twice for credit.

SOC 4380 Advanced Topics in Sociology: 1-3 semester hoursPrerequisites: SOC 1010 and junior standing or consent of instructor.
Examination of a specific sociological topic of current relevance in the community. May be repeated provided the topic is different.

SOC 4385 Internship In Sociology: 1-6 semester hours

Prerequisites: Junior standing and consent of instructor Students participate in supervised placements in positions related to the profession of Sociology.

SOC 4395 Methods In Theory Construction: 3 semester hours

Prerequisite: Sociology 1110 or consent of instructor. An in-depth comparison of selected techniques of theory building and testing. Verbal and/or mathematical formalization of selected sociological examples of theory will be the central activity.

SOC 4600 Masculinities: 3 semester hours

Same as GS 4600. Prerequisites: SOC 2102 or consent of instructor. This course examines men and masculinities through a critical lens, looking carefully at an institutionalized system of gender relations and practices that is assumed to be a natural phenomenon that is culturally universal. The course explores various masculine behaviors, myths, ideologies, and experiences so that students can consider the relationship between masculine practice and social power and delineate choices for future directions. The course is necessarily interdisciplinary and may utilize tools and methods from the social sciences and the humanities. Satisfies WGS gender theory requirement.

Biochemistry and Biotechnology

General Information

Degrees

The Biochemistry and Biotechnology Program provides academic programs leading to the undergraduate B.S. degree or the graduate

M.S. degree in Biochemistry and Biotechnology. These degrees are offered in cooperation with the Department of Biology and the Department of Chemistry and Biochemistry. Faculty members in this program are engaged in teaching and research in areas such as biochemistry, genetics, molecular biology, cell biology and developmental biology. Majors have the opportunity through coursework, laboratories, seminars and research experience to develop the knowledge and skills necessary to enter the workforce or to go on with further graduate education.

Career Outlook

The emerging Biotechnology sector is increasing the regional and national demand for workers with significant training in molecular biology, biochemistry, and genetics. The St. Louis metropolitan area has long been a major center for biochemistry and biotechnology, and in the past decade it has become a national hub for life sciences research and development activity. A degree in Biochemistry and Biotechnology provides students with the training they need to become part of the broad biotechnology and life sciences industries.

Undergraduate Studies

Degree Requirements

Bachelor of Science in Biochemistry and Biotechnology

General Education Requirements

Students must satisfy the university and college general education requirements (p. 28). Some math or science courses required for the major may be used to meet the science and mathematics requirement of the university. There is no foreign language requirement for the degree.

All Biochemistry & Biotechnology majors are required to take a capstone seminar (either CHEM 4797 (p. 80) or BIOL 4797 (p. 80)) during the semester in which they plan to graduate (the winter semester for students graduating in the summer). Students may not receive credit for both CHEM 4797 (p. 80) and BIOL 4797 (p. 80)).

Satisfactory/Unsatisfactory Option

Up to 18 credit hours may be taken on a satisfactory /unsatisfactory (s/u). Excluded from this option are required courses in biology, chemistry, physics, and mathematics.

Non-major Biology or Chemistry courses

Courses in Biology with a number less than 1800 and courses in Chemistry with a number less than 1100 do not count toward the credit hours required for a major in biochemistry and biotechnology.

Biology Core Courses

BIOL 1831 (p. 80)	Introductory Biology: From Molecules To Organisms	5
BIOL 2012 (p. 80)	Genetics	3
BIOL 2013 (p. 80)	Genetics Laboratory	2
BIOL 2482 (p. 80)	Microbiology	3
BIOL 2483 (p. 80)	Microbiology Laboratory	2

BIOL 3622 (p. 80)	Cell Biology	3
Chemistry Core	Courses	
CHEM 1111 (p. 80)	Introductory Chemistry I	5
CHEM 1121 (p. 80)	Introductory Chemistry II	5
CHEM 2223 (p. 80)	Quantitative Analysis	3
CHEM 2612 (p. 80)	Organic Chemistry I	3
CHEM 2622 (p. 80)	Organic Chemistry II	3
CHEM 2633 (p. 80)	Organic Chemistry Laboratory	2
CHEM 3302 (p. 80)	Physical Chemistry For The Life Sciences	3
Math and Physic	s Core Courses	
MATH 1030 (p. 80)	College Algebra	3
MATH 1035 (p. 80)	Trigonometry	2
MATH 1100 (p. 80)	Basic Calculus	3
or MATH 1800 (p. 80)	Analytic Geometry And Calculus I	
PHYSICS 1011 (p. 80)	Basic Physics 1	4
PHYSICS 1012 (p. 80)	Basic Physics II	4
Biochemistry and	d Biotechnology Core Courses	
BIOL 4602 (p. 80)	Molecular Biology (if both courses are taken, one can be used as an elective)	3
or BIOL 4612 (p. 80)	Molecular Genetics Of Bacteria	
BIOL 4614 (p. 80)	Biotechnology Laboratory I (if both courses are taken , one can be used as an elective)	4
or BIOL 4615 (p. 80)	Biotechnology Laboratory II	
BIOL/CHEM 4712 (p. 80)	Biochemistry	3
CHEM 4733 (p. 80)	Biochemistry Laboratory	2
CHEM 4722 (p. 80)	Advanced Biochemistry	3
BIOL 4797 (p. 80)	Biochemistry and Biotechnology Seminar (Students may not receive credit for both BIOL 4797 and CHEM 4797)	1
or CHEM 4797 (p. 80)	Biochemistry and Biotechnology Seminar	
Biochemistry and	d Biotechnology Elective Courses	
Select two of the f	ollowing:	6
BIOL 4550 (p. 80)	Bacterial Pathogenesis	
BIOL 4602 (p. 80)	Molecular Biology	

BIOL 4612 (p. 80)	Molecular Genetics Of Bacteria	
BIOL 4614 (p. 80)	Biotechnology Laboratory I	
BIOL 4615 (p. 80)	Biotechnology Laboratory II	
BIOL 4622 (p. 80)	Cellular Basis of Disease	
BIOL 4632 (p. 80)	Nucleic Acid Structure And Function	
BIOL 4642 (p. 80)	Plant Molecular Biology and Genetic Engineering	
BIOL 4652 (p. 80)	Virology	
BIOL 4842 (p. 80)	Immunobiology	
BIOL 4905 (p. 80)	Research (up to 3 credit hours)	
BIOL 4920 (p. 80)	Selected Topics (when relevant)	
CHEM 3643 (p. 80)	Advanced Organic Chemistry Laboratory	
CHEM 3905 (p. 80)	Chemical Research	
CHEM 4772 (p. 80)	Physical Biochemistry	
Total Hours		80

Electives

Recommendations include basic statistics (MATH 1310 (p. 80)) or MATH 1320 (p. 80)), computer science, public speaking (COMM 1040 (p. 80)), foreign language, ethics, and undergraduate research.

Research Opportunity

Students may use up to 3 credit hours of undergraduate research as elective hours in the B.S. degree. This provides an opportunity to gain research experience under the supervision of a faculty member. The project will normally include a review of the literature, laboratory experience and a final research report.

Minor in Biology

Students who complete the B.S. degree in Biochemistry and Biotechnology may also obtain a minor in biology by completing BIOL 1821, Introductory Biology: Organisms and the Environment. The minor must be approved by the chair of the Department of Biology. At least 9 hours of the biology course credits must be taken in residence at UMSL. Candidates must have a cumulative grade point average of 2.0 or better in the minor, and none of the courses may be taken on a satisfactory/ unsatisfactory (s/u) basis.

Minor in Chemistry

Students who complete the B.S. degree in Biochemistry and Biotechnology will also fulfill the course requirements for a minor in Chemistry. A GPA of at least 2.0 is required for the courses presented for the minor. At least three courses toward the Chemistry minor must be completed at UMSL.

Learning Outcomes

Students often think of the physical and life sciences as areas in which one masters a collection of "scientific facts". However, an education in Biochemistry & Biotechnology involves much more than memorizing facts. Students in this program will develop a well-rounded set of competencies in several critical areas. These include:

- Discipline-Specific Knowledge. Graduates from this program will
 have a solid foundation in the content areas of chemistry, biology,
 and biochemistry. A certain emphasis on specific, descriptive data is
 necessary. But the larger emphasis is on a clear understanding of the
 overriding principles and theorems of these areas that allow students to
 evaluate specific data within a larger context.
- Laboratory Skills. Scientists not only learn the results of others, they
 work in the lab to generate new knowledge. Graduates will learn the
 basic skills associated with performing laboratory experiments in
 chemistry, biology, and biochemistry, and they will learn how to critically
 evaluate their data. This includes an appreciation of the potential
 sources of error associated with laboratory measurements.
- Problem Solving Skills. Graduates will develop the ability to solve
 problems in their discipline. In part, this expands on laboratory skills, as
 students learn how to interpret and evaluate their data. These skills also
 include learning how to take general principles from various areas of
 chemistry, biochemistry, and biology and apply them to the solution of
 specific problems.
- Communication Skills. Graduates must not only be able to solve problems, they must also be able to communicate those solutions to others. Graduates will learn how to write scientific reports and papers and will be able to make effective oral presentations of their results and ideas.
- Scientific Literacy. Scientists must be able to build on the previous
 work of others and to put their new results into the larger context of
 the field. This requires the ability to work effectively with the scientific
 literature. Graduates will be able to use the specialized search
 engines associated with the vast literature in chemistry, biology, and
 biochemistry to find and retrieve information. Graduates will also have
 the knowledge background necessary to read papers from the literature
 with good comprehension.
- Professional Ethics. Graduates will understand and respect the accepted standards of conduct associated with the scientific profession.
 This will include honestly and objectively evaluating and reporting data and demonstrating the proper respect for the published work of others.

Graduate Studies

Degree Requirements

Master of Science in Biochemistry and Biotechnology

The Biochemistry and Biotechnology Program offers two types of Master of Science degrees. One is a non-thesis option suitable for those with laboratory research experience or for others, such as educators, who do not require research experience. The other option includes laboratory-based research under the supervision of one of the program faculty members, leading to a written thesis. All students admitted to the graduate program are considered to be in the non-thesis program. They may transfer into the thesis program after they have been accepted as a thesis student by one of the faculty.

M.S. Admission Requirements

Applicants to the M.S. program must submit a completed application and personal data forms, two letters of recommendation from faculty at previously-attended colleges or universities, and transcripts of all previous postsecondary academic work. Applicants whose undergraduate degree is from a university outside of the United States must submit GRE scores (verbal, quantitative, and analytical). For students with a degree from a U.S. university, submission of Graduate Record Examination scores, although not required, is highly recommended. Admission as a regular graduate student requires graduation from an accredited college with a minimum grade point overall and in biology and chemistry courses of 3.0 (where A=4.0). Students will generally be expected to have completed a major in biology, chemistry, biochemistry or biotechnology. In addition to the Graduate School admission requirements, applicants should have completed an undergraduate course in biochemistry (equivalent to BIOL 4712 (p. 80) / CHEM 4712 (p. 80)). Successful applicants will typically have completed courses in organic chemistry, cell biology, and genetics. Applicants may be asked to make up any deficiencies in these areas as a condition of enrollment.

All international applicants, except those from countries where English is the primary language, must take the TOEFL. Ordinarily, a score of 213 on the computer-based exam (550 on the paper-based exam or 80 on the internet-based exam) or better is required.

Requirements

Both the thesis and non-thesis options require a total of 30 graduate credit hours, of which at least half must be at the 5000-level or above. A maximum of 12 or 5 credit hours of Graduate Research (BIOL 6905 (p. 80)) or CHEM 6905 (p. 80)) may be applied toward the 30 credit hour total for the thesis or non-thesis options, respectively. Students must have a 3.0 GPA in non-research courses.

Required Courses

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CHEM 4722 (p. 80)	Advanced Biochemistry	3
CHEM 5774 (p. 80)	Bioinformatics	3
BIOL 6615 (p. 80)	Advanced Biotechnology Laboratory II	4
BIOL 6602 (p. 80)	Advanced Molecular Biology	3
BIOL 6889 (p. 80)	Graduate Seminar	2
Elective Courses	•	
CHEM 4733 (p. 80)	Biochemistry Laboratory	2
CHEM 4772 (p. 80)	Physical Biochemistry	3
CHEM 5694 (p. 80)	Special Topics In Organic Chemistry	3
CHEM 5794 (p. 80)	Special Topics In Biochemistry	3
CHEM 6787 (p. 80)	Problem Seminar In Biochemistry	1
CHEM 6905 (p. 80)	Graduate Research In Chemistry	1-10
BIOL 4842 (p. 80)	Immunobiology	3

BIOL 5069 (p. 80)	Topics In Cellular And Molecular Biology	1
BIOL 6442 (p. 80)	Advanced Developmental Biology	3
BIOL 6550 (p. 80)	Advanced Bacterial Pathogenesis	3
BIOL 6602 (p. 80)	Advanced Molecular Biology	3
BIOL 6612 (p. 80)	Advanced Molecular Genetics Of Bacteria	3
BIOL 6622 (p. 80)	Advanced Cellular Basis of Disease	3
BIOL 6632 (p. 80)	Advanced Nucleic Acid Structure And Function	3
BIOL 6642 (p. 80)	Advanced Plant Biology And Biotechnology	3
BIOL 6652 (p. 80)	Advanced Virology	3
BIOL 6699 (p. 80)	Graduate Internship In Biotechnology	1-4
BIOL 6889 (p. 80)	Graduate Seminar	2
BIOL 6905 (p. 80)	Graduate Research In Biology	1-10
BIOL 6920 (p. 80)	Topics In Biology (when relevant)	2-5

Biology Courses

BIOL 1010 Introduction to Student Biological Research: 1-2 semester hours

Prerequisites: Permission of Instructor. An opportunity for high school students to develop individual research projects under faculty mentorship. Includes interdisciplinary lectures, demonstrations, seminars, and project guidance. Evaluation will be based on written and oral presentation of the research project and student portfolio.

BIOL 1012 General Biology: 3 semester hours

Emphasis on fundamental principles of biology. BIOL 1012 can be applied toward fulfillment of the general education requirement in science. BIOL 1012 does not satisfy the prerequisite requirements in other courses in biology at the 2000 level or above. Students who plan to pursue a career in medicine or one of the medical-oriented professions should enroll in BIOL 1831 rather than BIOL 1012.

BIOL 1013 General Biology Laboratory: 2 semester hours

Prerequisite: BIOL 1013 (may be taken concurrently). Laboratory course to accompany BIOL 1013. BIOL 1013 can be used to fulfill the general education requirements in a laboratory science. BIOL 1013 does not meet the prerequisite requirements for other courses in biology. Three and one-half hours of laboratory per week.

BIOL 1102 Human Biology: 3 semester hours

Lectures and readings concerned with the reproduction, development, genetics, functional anatomy, behavior, ecology, and evolution of the human species. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 1131 Human Physiology And Anatomy I: 4 semester hours

Prerequisite: BIOL 1012 or its equivalent. The basic aspects of the structure of the healthy human body and how it functions. Special emphasis is on how the human body adapts itself to its environment and how changes affect physiological activities. Three hours lecture and two hours laboratory per week.

BIOL 1141 Human Physiology And Anatomy II: 4 semester hours

Prerequisite: BIOL 1131. A continuation of BIOL 1131. A study of the basic aspects of human physiology and and anatomy. Three hours lecture and two hours laboratory per week.

BIOL 1162 General Microbiology: 3 semester hours

Prerequisite: BIOL 1012 or its equivalent. A survey of microbiology structure, genetics, and physiology. Special emphasis will be placed on the transmission and control of such organisms as it relates to the maintenance of human health. Three hours of lecture per week.

BIOL 1202 Environmental Biology: 3 semester hours

An examination of the biological basis of current environmental problems, with emphasis upon resources, energy, pollution and conservation. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 1821 Introductory Biology: Organisms And The Environment: 5 semester hours

Prerequisites: A minimum of high school chemistry, ENGL 1100 or equivalent (may be taken concurrently), and placement into college algebra or higher. Required for students intending to major in biology or take specified biology courses at the 2000 level or above. This course presents an introduction to some of the principles of biology and scientific methodology applied to the organism and supraorganism levels of biology. Topics to be covered include: ecology, evolution, diversity, and population biology. Three hours of lecture and one hour of discussion per week.

BIOL 1831 Introductory Biology: From Molecules To Organisms: 5 semester hours

Prerequisites: A minimum of high school chemistry and MATH 1030; ENGL 1100 or equivalent (may be taken concurrently). Required for students intending to major in biology or take specified biology courses at the 2000 level or above. This course presents and introduction to some of the principles of biology and scientific methodology applied to the molecular/ cellular through organ system levels of organization. Topics include: cell structure, metabolism, reproduction, heredity and major physiological processes regulated by organ systems. Three hours of lecture, three and one half hours of lab, and one hour of discussion per week

BIOL 1999 Evolution for Everyone: 3 semester hours

Evolution for Everyone explores the development of our current understanding by examining modern and ancient controversies, and by studying major processes by which change occurs. Lectures will present overviews and many examples on topics in history, mechanisms, and outcome of evolutionary change, and students will participate in classroom and online discussions based on readings, computer exercises, and data collection and analysis. Course may not be applied towards major in Biology. Not eligible for credit with BIOL 3302 (Introduction to Evolution) required for Biology majors.

BIOL 2012 Genetics: 3 semester hours

Prerequisites: BIOL 1831 (majors must also take BIOL 1821) MATH 1030, and CHEM 1111 or (CHEM 1081 plus CHEM 1091). Fundamental principles of inheritance, including classical genetic theory as well as recent advances in the molecular basis of heredity. Three hours of lecture per week. Fulfills Science/Math requirement.

BIOL 2013 Genetics Laboratory: 2 semester hours

Prerequsites: Concurrent registration in BIOL 2012, or by permission of instructor. Laboratory to accompany BIOL 2012. Three and one-half hours of organized laboratory time per week. Students may need to return to the laboratory at unscheduled times to complete some exercises.

BIOL 2102 General Ecology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. An examination of the relationships between living organisms and their environment. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 2103 General Ecology Laboratory: 2 semester hours

Prerequisites: BIOL 2102 required (may be taken concurrently);a genderal statistics course strongly recommended. An analysis of environmental factors influencing the abundance and distribution of living organisms. Some classes will be held at field sites in and around St. Louis. Three and one-half hours of laboratory or field work per week.

BIOL 2402 Vertebrate Anatomy, Evolution and Ecology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. Development, structure, function, interrelationships, and zoogeography of vertebrate animals with particular attention to phylogenetic aspects. Three hours of lecture per week. Fulfills Science/Math requirement.

BIOL 2403 Vertebrate Anatomy, Evolution and Ecology Laboratory: 2 semester hours

Prerequisite: BIOL 2402 (may be taken concurrently). Laboratory to accompany BIOL 2402. Morphological analysis and systematic survey of major vertebrate groups. Overview of the vertebrate life forms and their adaptations to habitats and resources. Three and one-half hours of laboratory per week.

BIOL 2443 Invertebrate Biology Laboratory: 2 semester hours

Prerequisite: BIOL 2442 (may be taken concurrently). Analysis of invertebrate structure and function with emphasis on the feeding and locomotory behavior of live animals. Students will collect and study animals in habitats ranging from UMSL's Bugg Lake to the Gulf of Mexico. The course meets three and one half hours per week and includes a one-week field trip to a marine laboratory in Florida. Students will be responsible for expenses they incur.

BIOL 2482 Microbiology: 3 semester hours

Prerequsites: BIOL 1831 (majors must also take BIOL 1821), MATH 1030, and CHEM 1111 (or CHEM 1082 plus CHEM 1091). Study of microorganisms, their metabolism, genetics, and their interaction with other forms of life. Three hours of lecture per week.

BIOL 2483 Microbiology Laboratory: 2 semester hours

Prerequisite: BIOL 2482 (may be taken concurrently). Experimental studies and procedures of microbiological techniques. Three and one-half hours of organized laboratory time per week. Students will need to return to the laboratory at unscheduled times to complete some exercises.

BIOL 2501 Biology Of Plants: 5 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. A general discussion of the plant groups from algae through angiosperms. Plant morphology, physiology, reproduction and ecology will be discussed in lecture (three hours per week). The laboratory (three and one half hours per week) involves examination of representatives of the plant kingdom and experimentation in plant physiology and genetics. Fulfills both a lecture and laboratory requirement.

BIOL 3001 Experiential Practicum in Biosciences: 1 semester hour Prerequisites: Consent of Biology Curriculum Committee. Credit for off-

Prerequisites: Consent of Biology Curriculum Committee. Credit for offcampus bioscience projects providing extraordinary student experience and service to a community in need.

BIOL 3102 Animal Behavior: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. The study of invertebrate and vertebrate behavior, including neurophysiological, hormonal, developmental, genetic, ecological and evolutionary aspects of behavior; behavior interactions within and between populations. Three hours of lecture per week.

BIOL 3103 Animal Behavior Laboratory: 2 semester hours

Prerequisites: BIOL 3102 (may be taken concurrently) and any college level course in introductory statistics (may not be taken concurrently). Observational and experimental studies of animal behavior in the field and laboratory. Three and one-half hours of formal laboratory time per week, but additional time may be required for independent projects. Some activities involve field trips or trips to the St. Louis Zoo.

BIOL 3123 Tropical Resource Ecology Field Studies: 2 semester hours

Prerequisites: BIOL 3122 (may be taken concurrently). The field component to the lecture and seminar course. Examines the patterns of use and exploitation of resources in the topics by humans in the context of the theories of behavioral ecology. Two weeks of intensive field research and lectures in Guyana, South America during the second and third weeks of Summer Session I (trip costs to be borne by the student). Students may not receive credit for both BIOL 3123 and BIOL 5123. Offered in odd numbered years.

BIOL 3202 Conservation Biology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. Introduction to the principles and theories of conservation biology. Course topics include biodiversity, extinctions, population modeling, habitat fragmentation, conservation area management, restoration ecology, and social science elements of conservation strategies. Class sessions will include lectures, discussions, and simulation exercises. Three hours of lecture per week.

BIOL 3203 Conservation Biology Laboratory: 2 semester hours

Prerequisite: BIOL 3202 (recommended to be taken concurrently). Laboratory to accompany BIOL 3202. Laboratory will include computer simulations of conservation problems using existing software, 2-3 field trips to local conservation projects, and field interviews with governmental and nongovernmental agencies. Three and one-half hours of laboratory per week.

BIOL 3302 Introduction To Evolution: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831, and MATH 1030; BIOL 2012 strongly recommended. Introduction to the theory, events, and processes of organic evolution.

BIOL 3622 Cell Biology: 3 semester hours

Prerequisites: BIOL 1831, BIOL 2012, CHEM 2612, and MATH 1030.Examination of the organization and basic processes of cells including tissues, organelles, glycolysis, respiration, photosynthesis, trafficking, cytoskeleton, signal transduction, and cell division.

BIOL 3699 Undergraduate Internship In Biotechnology: 1-4 semester hours

Prerequisites: BIOL 1821, BIOL 1831, and CHEM 1111 and CHEM 1121 and consent of instructor. Concurrent enrollment in CHEM 2612 or higher is strongly encouraged. A 2.5 GPA and enrollment in the undergraduate Biotechnology Certificate Program is required. Internship will consist of a period of observation, experimentation and on-the-job training in a biotechnology laboratory. The laboratory may be industrial or academic. Credit will be determined by the number of hours a student works each week and in consultation between the intern's supervisor and instructor. Internship assignments will be commensurate with the education and experience of the student. Two credits may be used to fulfill the lab requirement.

BIOL 3802 Vertebrate Physiology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831 and CHEM 1111 or CHEM 1081 plus CHEM 1091). Basic functional aspects of organ systems in relation to the physiochemical properties of protoplasm. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 3803 Vertebrate Physiology Lab: 2 semester hours

Prerequisite: BIOL 3802 (may be taken concurrently). Instrumental and experimental studies in physiology. Three and one-half hours laboratory per week.

BIOL 4102 Behavioral Ecology: 3 semester hours

Prerequisite: BIOL 3102 (BIOL 2102 recommended). Topics in animal behavior with an emphasis on ecological and evolutionary aspects of behavior. Topics will include the role of behavior in population regulation, habitat selection and spacing, feeding and predator-prey interactions, sexual selection, evolution of mating systems, and new approaches to animal communication. Three hours of lecture per week. Students may not receive credit for both BIOL 4102 and BIOL 6102.

BIOL 4112 Evolution Of Animal Sociality: 3 semester hours

Prerequisites: BIOL 3102, BIOL 2102, or BIOL 4182 recommended, or consent of instructor. The evolution of sociality, including a critical examination of sociobiological theories and alternative approaches to social evolution. Survey of social organization and behavior in anthropods, with an emphasis on social insects, & vertebrates Two hours of lecture, one hour of discussion per week. Students may not receive credit for both BIOL 4112 and BIOL 6112.

BIOL 4122 Biometry: 3 semester hours

Prerequisites: MATH 1030 and a minimum of 15 hours in biology. Reviews descriptive, analytical, and experimental methods useful for the statistical study of biological phenomena. Students will develop the skills needed to better appreciate and evaluate the published literature, as well as the ability to design their own research programs. Topics include: the collection and summarization of biological observations; development, design, and testing of hypothesis; analysis and presentation of data. Three hours of lecture per week. Fulfills the statistics requirement for the B.A. or B.S. degree in biology.

BIOL 4182 Population Biology: 3 semester hours

Prerequisite: BIOL 2102 and BIOL 2012 (BIOL 3302 recommended) Introduces concepts and mathematical models of population ecology and population genetics. By integrating the ecology and genetics of populations, the course goal is to understand the processes that contribute to microevolution of populations. Topics include: demography, metapopulation biology, natural selection, migration, gene flow, and genetic drift. Three hours of lecture per week. Students may not receive credit for both BIOL 4182 and BIOL 6182.

BIOL 4192 Applications of Geographic Information Systems: 5 semester hours

Prerequisites: BIOL 2102, BIOL 4122 or equivalent, and consent of instructor. Geographic Information Systems (GIS) are sophisticated computer-based systems for analysis, capture, presentation, and maintenance of geographically referenced data. This course provides a foundation in using GIS for spatial analysis. Although biological examples are primarily used, examples from a range of disciplines are employed to emphasize the use of GIS as a tool to support analysis and decision-making. Students will have hands-on use of GIS software during each session. An independent research project applying the spatial analysis tools learned in GIS to biological research will be required. Five hours of combined lecture and computer operations, plus 2-3 hours of open lab per week. Fulfills both a lecture and a laboratory requirement. Students may not receive credit for both BIOL 4192 and BIOL 6192.

BIOL 4222 Tropical Ecology And Conservation: 3 semester hours

Prerequisite: BIOL 2102, BIOL 4182, BIOL 5192, or equivalent. This Course Will Cover Research Areas In Tropical Population, Community And Ecosystem Ecology, With Emphais On Inter-Species And Environment-Organism Interactions, Population Control Factors, And Genetic Structure Of Populations. Topics Include The Current Status And Causes Of Tropical Habitat Destruction, Ongoing Attempts To Manage Those Habitats, And Development Of Strategies Leading To Sustained Use Of Non-Renewable Resources. Three Hours Of Lecture Per Week. Students May Not Receive Credit For Both BIOL 4222 And BIOL 6222.

BIOL 4245 Field Biology: 3 semester hours

Prerequisite: Three biology courses and consent of instructor. Intensive study of the flora and fauna of selected natural areas of North America, including an extended field trip. Details of the field trip and course schedule will be posted in the Biology department preceding registration for the term in which the course will be offered. Students will be required to pay costs of travel and of the field trip. This is a laboratory course appropriate for advanced undergraduates and non-thesis Master of Science students. Students may not receive credit for both BIOL 4245 and BIOL 6245.

BIOL 4270 Global Climate Change: 3 semester hours

Prerequisites: BIOL 3302 or consent of instructor. Topics included are fundamental physical, meteorological, and biological circumstances of global climate change, as well as predictions of its future effects on biological diversity, including humans, and how those estimates are made. In addition, basic environmental economics and politics of climate change at local and global levels will be included. The course will be taught as a series of lectures and discussions led by guest experts in each of the subdisciplines covered. Students may not receive credit for both BIOL 4270 and BIOL 6270.

BIOL 4299 Practicum In Conservation: 2 semester hours

Prerequisites: Consent of instructor and BIOL 3643, Conservation Biology. This course is generally restricted to students officially enrolled in the Certificate Program in Conservation Biology. The course provides practical experience with conservation or environmental agencies. Specific placement will be selected according to student's interests and career goals as well as availability of agency openings. Course requirements include practical experience and final report on practicum experience.

BIOL 4308 Transmission Electron Microscopy Hours: 3 semester hours

Same as PHYSICS 4308 Course introduces students to transmission electron microscopy techniques and their applications to solving challenging materials and biological problems. Course includes fundamental principles (electron optics), electron-specimen interactions, diffraction of electrons, image formation and interpretation, image processing and analysis, energy dispersive X-ray spectroscopy, electron energy loss spectroscopy, and sample preparation of both biological and non-biological systems. Laboratory experiments will provide students "hands-on" experience with TEM operations and problem solving skills. Successful completion of the course enables students to independently operate transmission electron microscopes to perform basic research experiments. This course is ideal for students interested in ultrastructural or nanocharacterization of biological or materials systems. Two classroom hours and two hours of laboratory per week.

BIOL 4402 Ornithology: 3 semester hours

Prerequisites: BIOL 2102 and junior standing. Introduction to avian biology and ecology. Material to be covered will include basic adaptations of anatomy, physiology, and behavior of birds. There will be a strong emphasis on avian ecology and conservation. Specific topics will include flight, reproductive behavior, migration, foraging behavior, community structure, and current conservation concerns. The diversity of birds will be emphasized through comparisons between temperate and tropical regions. Three hours of lecture per week.

BIOL 4403 Ornithology Laboratory: 2 semester hours

Prerequisites: BIOL 4402 (may be taken concurrently), or consent of instructor. This course will introduce students to methods of identifying and studying birds. Labs will almost enirely be comprised of field trips to local areas and will emphasize diversity of birds, adaptions shown by different groups, and means of identification, particularly of birds found in Missouri. Field projects will focus on techniques for censusing birds, sampling foraging behavior, and studying habitat selection. Indoor periods will cover internal and external anatomy of birds. Slides and field trips to the St Louis Zoo will be used to survey the diversity of birds worldwide. Three and one-half hours of laboratory per week. Longer (e.g., Saturday) field trips will be made when appropriate.

BIOL 4422 Entomology: 3 semester hours

Prerequisites: BIOL 1820 and BIOL 1821: 9 additional hours of biology and upper-division standing. Development, structure, function, behavior and ecology of insects, including a systematic survey of the orders of Insecta. Three hours of lecture per week.

BIOL 4423 Entomology Laboratory: 2 semester hours

Prerequisites: BIOL 4442 (may be taken concurrently). Laboratory to accompany BIOL 4422. Studies of the morphology, physiology, and behavior of insects to give a sampling of biological studies of the class Insecta. Formation of a collection of insects, comprising a systematic survey of orders and principal families, will be an intregal part of the course and will require additional time beyond the official lab hours. Three and one-half hours of lab per week.

BIOL 4442 Developmental Biology: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 3622. A study of the basic principles that shape the embryonic and post-embryonic development of animals with an emphasis on the underlying cellular and molecular mechanisms. Specific topics include fertilization, determination of cell fate and differentiation, cell migration, establishment of the body plan, formation of selected organs and organ systems, stem cells, and limb regeneration. Environmental influences on development and the impact of developmental biology on modern medicine are also discussed. Three hours of lecture/discussion per week. Students may not receive credit for both BIOL 4442 and BIOL 6442.

BIOL 4501 Flowering Plant Families: Phylogeny And Diversification: 5 semester hours

Prerequisites: BIOL1821, BIOL 1831 and junior standing or consent of instructor. Focusing on the flowering plant families of North America, the aim of the course is to give an understanding of their phylogeny and diversification. Student will also gain an understanding of plant morphology and anatomy, a basis for further developing their knowledge of plants. Three hours of lecture and three to four hours of laboratory per week. Students may need to return to the laboratory at unscheduled times.

BIOL 4550 Bacterial Pathogenesis: 3 semester hours

Prerequistes: BIOL 2012 and BIOL 2482 Examination of the strategies bacterial pathogens use to infect animals. Topics include host immune responses to infection, bacterial virulence factors, regulation of bacterial virulence, and the cellular and molecular approaches used to study hostparasite interactions. Three hours of lecture per week. Students may not receive credit for both BIOL 4550 and BIOL 6550.

BIOL 4602 Molecular Biology: 3 semester hours

Prerequisites: BIOL 2012 and CHEM 2612. A study of the principles of molecular biology, with emphasis on understanding the genetic regulation of DNA, RNA, and protein synthesis and function in eukaryotic cells. Three hours of lecture per week. Students may not receive credit for BIOL 4602 and either BIOL 6602, or any course previously called Gene Expression in Eukaryotes or Advanced Gene Expression in Eukaryotes.

BIOL 4612 Molecular Genetics Of Bacteria: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. A study of the molecular biology of gene replication, transfer, and expression in bacterial cells. Topics include DNA replication, transcription and translation, mutagenesis, DNA repair and recombination, gene transfer, and the regulation of genes and global expression systems. Three hours of lecture per week. Student may not receive credit for BIOL 4612 and either BIOL 6612 or any course previously called Gene Expression in Prokaryotes or Advanced Gene Expression in Prokaryotes.

BIOL 4614 Biotechnology Laboratory I: 4 semester hours

Prerequisites: BIOL 2012 or consent of instructor. An introduction to the fundamental concepts that underlie the field of biotechnology. Both the basic principles of molecular biology and hand-on experience with the techniques of the field will be addressed through lectures, discussions, and a series of laboratory exercises. Two hours of lecture and four hours of laboratory per week. Fulfills a laboratory requirement only; may not be used to fulfill the higher level (4000-5000) lecture course requirement for the B.A. or B.S. degree in biology. Students may not receive credit for BIOL 4614 and a comparable biotechnology course from another institution.

BIOL 4615 Biotechnology Laboratory II: 4 semester hours

Prerequisites: BIOL 4614 and either BIOL 4602 or BIOL 4612, or consent of instructor. An in-depth look at theory and practice of biotechnology. Lectures and discussion will examine the underlying principles, and laboratory exercises will present hands-on experience with current techniques. One hour of lecture and six hours of laboratory per week. Fulfills a laboratory requirement only; may not be used to fulfill the higher level (4000-5000) lecture course requirement for the B.A. or B.S. degree in biology. Students may not receive credit for BIOL 4615 and BIOL 6615.

BIOL 4622 Cellular Basis of Disease: 3 semester hours

Prerequisites: BIOL 3622. A study of the structural organization and processes of eukaryotic cells, focusing on how defects in cellular function lead to genetic diseases and cancer. Topics of discussion may include membrane dynamics, intracellular trafficking, signal transduction, and the cell cycle. Three hours of lecture per week. Students may not receive credit for both BIOL 4622 and BIOL 6622.

BIOL 4632 Nucleic Acid Structure And Function: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 4712 or equivalent, or consent of instructor. A comprehensive view of the structural properties of DNA and RNA that promote molecular interactions and biological function. Topics will include the physical properties of nucleic acids, the formation and biological importance of higher order structures, RNA enzymatic activities, nucleic acid-protein interactions, and RNA metobolism. Three hours of lecture per week. Students may not receive credit for both BIOL 4632 and BIOL 6632.

BIOL 4642 Plant Molecular Biology and Genetic Engineering: 3 semester hours

Prerequisites: BIOL 4602 or BIOL 4612. Topics may include molecular and cellular aspects of plant growth, development, and responses to environmental stress and pathogen attack, using the experimental approaches of genetics, molecular biology, and biochemistry. Plant growth manipulation and genetic engineering, including techniques required for DNA transfer and plant regeneration, as well as current and potential future applications, such as engineered resistance to stress, developmental engineering, and metabolic engineering, also will be covered. Three hours of lecture per week. Student may not receive credit for both BIOL 4642 and BIOL 6642.

BIOL 4652 Virology: 3 semester hours

Prerequisite: BIOL 2012 and BIOL 3622. This first half of the course entails a comparative study of the structure, replication, and molecular biology of viruses. The second half of the course focuses on the pathogenesis, control, and evolution of animal viruses. Three hours of lecture per week. Students may not receive credit for both BIOL 4652 and BIOL 6652.

BIOL 4712 Biochemistry: 3 semester hours

Prerequisites: CHEM 2612 and either BIOL 1831 or CHEM 2622. (Same as CHEM 4712) Examines the chemistry and function of cell constituents, and the interaction and conversions of intracellular substances. Students may not receive credit for both BIOL 4712 and CHEM 4712.

BIOL 4713 Techniques In Biochemistry: 2 semester hours

Prerequisites: BIOL 4712 or CHEM 4712 (may be taken concurrently). Laboratory activities introducing fundamental qualitative and quantitative biochemical techniques. Student evaluation will be based on laboratory participation, student laboratory reports, and written examinations. Three and one-half hours of organized laboratory time per week. Students may need to return to the laboratory at unscheduled times to complete some experiments.

BIOL 4797 Biochemistry and Biotechnology Seminar: 1 semester hour

Prerequisites: Same as CHEM 4797. Senior standing in the Biochemistry and Biotechnology program. This course will focus on selected publications related to biochemistry and biotechnology from both refereed journals and news sources. Students are expected to participate in discussions and to prepare oral and written presentations. Completion of the Major Field Achievement Test in Biochemistry & Biotechnology is a course requirement. May not be taken for graduate credit.

BIOL 4822 Introduction To Neuroscience: 3 semester hours

Prerequisite: BIOL 3802 or consent of instructor. The study of nervous systems, featuring the cellular bases of initiation and conduction fo the impulse, synaptic transmission, and the network integrative function of invertebrate and vertebrate nervous systems. This course emphasizes the multidisciplinary nature of the neurosciences, including anatomical, physiological and molecular approaches to understanding neural function. Three hours of lecture per week.

BIOL 4842 Immunobiology: 3 semester hours

Prerequisite: BIOL 3622 and CHEM 2612. The fundamental principles and concepts of immunology and immunochemistry. Emphasis on the relation of immunological phenomena to biological phenomena and biological problems. Three hours lecture per week.

BIOL 4889 Senior Seminar: 2 semester hours

Prerequisites: BIOL 1821, BIOL 1831, BIOL 2012, and BIOL 3302, with a total of at least 30 credits in Biology. Oral and written presentation by students of selected scientific papers or articles. Students are expected to participate in discussions of oral presentations by other students. May not be taken for graduate credit.

BIOL 4905 Research: 1-3 semester hours

Prerequisites: Consent of faculty research advisor: generally restricted to junior and senior standing. Research in an area selected by the student in consultation with and under the direct supervision of an UMSL biology faculty research adviser. Research opportunities are subject to availability and must be approved in advance of beginning research. The project normally includes the reading of pertinent literature, laboratory or field experience, including keeping of a logbook, and a summary paper and a presentation, all based on an average 8 hours per week per credit during a 15 week semester. Credit arranged. Course may be repeated for a total of up to 5 credit hours. A maximum of one lab requirement may be satisfied using any two BIOL 4905 credits. Additional credits may be applied toward the total biology hours required for the biology BA or BS.

BIOL 4915 Biology Internship: 1-3 semester hours

Prerequisites: Consent of faculty research advisor; generally restricted to junior and senior standing. Research in an area selected by the student to be conducted off-campus in a lab of a professional researcher or faculty person (the internship mentor) other than those in UMSL Biology. Research opportunities are subject to availability and must be approved in advance of beginning research by an UMSL biology faculty liaison and the internship mentor. The project normally includes the reading of pertinent literature, laboratory or field experience, including keeping of a logbook, and a summary paper and a presentation, all based on an average 8 hours per week per credit during a 15 week semester. Credit arranged. Course may be repeated for a total of up to 5 credit hours. A maximum of one lab requirement may be satisfied using any two BIOL 4905 credits. Additional credits may be applied toward the total biology hours required for the biology BA or BS.

BIOL 4920 Selected Topics: 1-10 semester hours

Prerequisite: Junior standing and consent of instructor. Selected topics in biology. The topics will vary each semester. Topics offered for the following semester will be available in the departmental office. Credit arranged. May be taken more than once for credit.

BIOL 4986 Laboratory In Teaching Life Sciences: 2 semester hours Same as SEC ED 4986. Prerequisite: TCH ED 3310. Discussion, development, utilization, and evaluation of equipment, materials, and techniques applicable to instruction in the life sciences. Must be taken concurrently with BIOL 4985/ SEC ED 4985.

BIOL 5059 Topics In Ecology, Evolution, And Systematics: 1 semester hour

Prerequisites: Graduate Standing. Presentation and discussion of faculty and student current research projects in behavior, ecology, evolution, and systematics. May be repeated.

BIOL 5069 Topics In Cellular And Molecular Biology: 1 semester hour Presentation and discussion of student and faculty research projects and/or current research articles in molecular, cellular and developmental biology. May be repeated.

BIOL 5079 Topics In Floristic Taxonomy: 1 semester hour

Prerequisite: BIOL 2501 or equivalent, and graduate standing. Seminar Course In Systematics Of Higher Plants, Arranged In The Cronquist Sequence Of Families, Covering Morphology, Anatomy, Palynology, Biogeography, Chemosystematics, Cytology, And Other Aspects Of Plant Classification And Phylogenetics. Given At The Missouri Botanical Garden. One Hour Per Week.

BIOL 5123 Advanced Tropical Resource Ecology Field Studies: 2 semester hours

Prerequisites: BIOL 5122 (may be taken concurrently). The field component to the lecture and seminar course. Examines the patters of use and exploitation of resources in the topics by humans in the context of the theories of behavioral ecology. Two weeks of intensive field research and lectures in Guyana, South America during the second and third weeks of Summer Session I (trip costs to be borne by the student). Students may not receive credit for both BIOL 3123 and BIOL 5123. Offered in odd numbered years.

BIOL 5179 Ethical Issues in Biology: 1 semester hour

Prerequisites: Graduate Standing. Using readings and discussions, students will explore ethical issues in Biology in both professional and social realms. Professional topics include authorship, grants accounting, and academic misconduct; social topics include ethical foundations of basic and applied science, government regulation of science, environmental and individual protection, and current issues.

BIOL 5192 Community Ecology: 3 semester hours

Prerequisites: Graduate standing and either B2102 and B4182 or an equivalent course. Studies of structure and organization of natural communities stressing the abundance and distribution of species, the regulation of species diversity, and the evolution of demographic parameters in populations.

BIOL 5312 Theory Of Systematics: 3 semester hours

Prerequisites: BIOL 1821, BIOL 1831 and at least one course beyond the introductory level dealing with animal, plant, or microbial diversity (such as BIOL 2482, BIOL 2501, BIOL 2402, BIOL 4482, BIOL 4501, BIOL 4402, BIOL 4422) or consent of instructor. Course investigates the theory of classification, phylogenetic analysis, systematic biology, and their relation to systematic practice. Will cover goals and schools of systematics, characters and homology, analysis of molecular and morphological data and underlying assumptions, species concepts, classification, naming, and the connections between evolutionary biology and systematics. The course is appropriate for upper level undergraduates & graduate students in all disciplines, animal, plant, and microbial, as an introduction to systematic methods. Three hours of lecture per week.

BIOL 5314 Herbarium Taxonomy: 2 semester hours

Prerequisite: BIOL 5312. An introduction to the principles and practice of herbarium taxonomy, emphasizing species description, identification, how to access and use the taxonomic literature, data basing, nomenclature, curation, and collecting and the national and international regulations governing it. Two hours of lectures per week, projects including specimen curation, writing species description, etc., to be arranged. Offered every even year.

BIOL 5436 Applied Bioinformatics: 3 semester hours

Prerequisites: BIOL 4712 or BIOL 4602 or consent of instructor. This course provides a survey of the various computational approaches that can be used to solve biological problems. Specific attention will be focused on biological databases and methods for using and interpreting database information, sequence alignments, functional genomics, structure prediction, high-throughput analyses, and proteomics. Three hours of lecture per week.

BIOL 6102 Advanced Topics In Behavioral Ecology: 3 semester hours

Prerequisite: BIOL 3102 (BIOL 2102 is recommended). Topics in animal behavior with an emphasis on ecological and evolutionary aspects of behavior. Topics may include the role of behavior in population regulation, habitat selection and spacing, feeding and predator-prey interactions, sexual selection, evolution of mating systems, and new approaches to animal communication. Three hours of lecture, one hour of discussion or seminar per week. Students may not receive credit for both BIOL 4102 and BIOL 6102.

BIOL 6112 Advanced Evolution Of Animal Sociality: 3 semester hours

Prerequisites: BIOL 2102 or BIOL 4182 recommended or consent of instructor. The evolution of sociality, including a critical examination of sociobiological theories and alternative approaches of social evolution. Survey of social organization and behavior in anthropods, with an emphasis on social insects, & vertebrates. Two hours of lecture and one hour of discussion per week. Students may not receive credit for both BIOL 4112 and BIOL 6112.

BIOL 6182 Advanced Population Biology: 3 semester hours

Prerequisites: BIOL 2012 (BIOL 3302 recommended). Introduces concepts and mathematical models of population ecology and population genetics. By integrating the ecology and genetics of population, the course goal is to understand the processes that contribute to microevolution of populations. Topics include: demography, metapopulation biology, natural selection, migration, gene flow, and genetic drift. A discussion section will focus on mathematical elements of population biology models. Three hours of discussion per week. Students may not receive credit for both BIOL 4182 and BIOL 6182.

BIOL 6192 Applications Of Geographic Information Systems: 5 semester hours

Prerequisites: BIOL 2102, BIOL 4122 or equivalent, and consent of instructor. Geographic Information Systems (GIS) are sophisticated computer-based systems for analysis, capture, presentation, and maintenance of geographically referenced data. This course provides a foundation in using GIS for spatial analysis. Although biological examples are primarily used, examples from a range of disciplines are employed to emphasize the use of GIS as a tool to support analysis and decision-making. Students will have hands-on use of GIS software using Windows 2000/NT based workstations during each session. An independent research project applying the spatial analysis tools learned in GIS to biological research will be required. Five hours of combined lecture and computer operations, plus 2-3 hours of open lab per week.

BIOL 6212 Theory And Application Of Conservation Biology: 3 semester hours

Prerequisite: BIOL 4182 or BIOL 5162 or equivalent or consent of instructor. Prerequisites may be taken concurrently. Advanced analysis of conservation theory with emphasis on conservation of populations, their genetic diversity, and the biodiversity of habitats. Applied aspects of conservation and sustainable development will be illustrated through case studies presented by conservation professionals.

BIOL 6222 Advanced Tropical Ecology And Conservation: 3 semester hours

Prerequisite: BIOL 2102, BIOL 4182, or BIOL 5192, or their equivalent. This course will cover research areas in tropical population, community and ecosystem ecology, with emphasis on inter-species and environment-organism interactions, population control factors, and genetic structure of populations. Topics include the current status and causes of tropical habitat destruction, ongoing attempts to manage those habitats, and development of strategies leading to sustained use of non-renewable resources. A research proposal designed to investigate a current topic in tropical ecology will be required. Students may nor receive credit for BIOL 4222 and BIOL 6222. Three hours of lecture per week.

BIOL 6250 Public Policy Of Conservation And Sustainable Development: 3 semester hours

Prerequisite: Same as POL SCI 6452. Graduate standing in Biology or Political Science and consent of instructor. Prior course in ecology recommended. This course will introduce the student to concepts and techniques for formulating. implementing, and analyzing public policy with an emphasis on environmental concerns, conservation, and sustainable development. The course will be team taught by a political scientist and a biologist. Course materials will include case studies that demonstrate the special problems of environmental policymaking in developing and developed economies.

BIOL 6270 Advanced Global Climate Change: 3 semester hours

Prerequisites: Graduate Standing or permission of the instructor. We will cover the fundamental physical, meteorological, and biological circumstances of global climate change, as well as predictions of its future effects on biological diversity, including humans, and how those estimates are made. We will also cover basic environmental economics and politics of climate change at local and global levels. The course will be taught as a series of lectures and discussions led by guest experts in each of the subdisciplines covered. Students may not receive credit for both BIOL 4270 and BIOL 6270.

BIOL 6299 Internship In Conservation Biology: 1-4 semester hours Prerequisite: BIOL 6250 or BIOL 6212 and consent of the director of graduate studies in biology. Internships will consist of a period of study, phservation and on the job training at a conservation or environmental

observation and on-the-job training at a conservation or environmental agency. Specific placements will be selected according to student's interests and career goals. Internships may vary from 2 weeks to 4 months in duration.

BIOL 6442 Advanced Developmental Biology: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 3622. A study of the basic principles that shape the embryonic and post-embryonic development of animals with an emphasis on the underlying cellular and molecular mechanisms. Specific topics include fertilization, determination of cell fate and differentiation, cell migration, establishment of the body plan, formation of selected organs and organ systems, stem cells, and limb regeneration. Environmental influences on development and the impact of developmental biology on modern medicine are also discussed. Three hours of lecture/discussion per week. Students may not receive credit for both BIOL 4442 and BIOL 6442.

BIOL 6550 Advanced Bacterial Pathogenesis: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. Examination of the strategies bacterial pathogens use to infect animals. Topics include host immune responses to infection, bacterial virulence factors, regulation of bacterial virulence, and the cellular and molecular approaches used to study hostparasite interactions. Students may not receive credit for both BIOL 6550 and BIOL 4550. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Three hours of lecture per week.

BIOL 6552 Advanced Evolution And Phylogeny Of Seed Plants: 5 semester hours

Prerequisites: BIOL 3302 or BIOL 2501, or equivalent. Advanced approaches in examination of the evolution of, and relationships among, major lines of seed-bearing plants, both extinct (Bennettitales, cordaites, etc.) and extant (conifers, cycades, ginkgo, Gnetales, and flowering plants). Criteria for the assessment of morphological homology are examined, and wherever possible the evolution of morphological structures is related to their function. Includes use of cladistic methods and practical exercises in the analysis of large morphological data matrices using PAUP and MacClade. Two hours of lecture per week and one hour of laboratory per week to be arranged. Does not fulfill a laboratory requirement for biology majors. students may not receive credit for both BIOL 4552 and BIOL 6552.

BIOL 6602 Advanced Molecular Biology: 3 semester hours

Prerequisites: BIOL 2012 and CHEM 2612, or consent of instructor. A study of the principles of molecular biology, with emphasis on understanding the genetic regulation of DNA, RNA, and protein synthesis and function in eukaryotic cells. Three hours of lecture per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Students may not receive credit for both BIOL 6602 and BIOL 4602, or any course previously called Gene Expression in Eukaryotes or Advanced Gene Expression in Eukaryotes.

BIOL 6612 Advanced Molecular Genetics Of Bacteria: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. A study of the molecular biology of gene replication, transfer, and expression in bacterial cells. Topics include DNA replication, transcription and translation, mutagenesis, DNA repair and recombination, gene transfer, and the regulation of genes and global expression systems. Three hours of lecture per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Student may not receive credit for both BIOL 6612 and BIOL 4612 or any course previously called Gene Expression in Prokaryotes or Advanced Gene Expression in Prokaryotes.

BIOL 6615 Advanced Biotechnology Laboratory II: 4 semester hours Prerequisites: BIOL 4614 and either BIOL 4602 or BIOL 4612, or consent of instructor. An in-depth look at the theory and practice of biotechnology. Lectures and discussion will examine the underlying principles, and laboratory exercises will present hands-on experience with current techniques. One hour of lecture and six hours of laboratory per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Students may not receive credit for both BIOL 6615 and BIOL 4615 or any course previously called Techniques in Molecular Biology or Advanced Techniques in Molecular Biology.

BIOL 6622 Advanced Cellular Basis of Disease: 3 semester hours

Prerequisites: BIOL 3622, or consent of instructor. A study of the structural organization and processes of eukaryotic cells, focusing on how defects in cellular function lead to genetic diseases and cancer. Topics of discussion may include membrane dynamics, intracellular trafficking, signal transduction, and the cell cycle. Three hours of lecture per week. Students may not receive credit for both BIOL 6622 and BIOL 4622.

BIOL 6632 Advanced Nucleic Acid Structure And Function: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 4712 or equivalent, or consent of instructor. A comprehensive view of the structural properties of DNA and RNA tha tpromote molecular interactions & biological function. Topics will include the physical properties of nucleic acids, the formation and biological importance of higher order structures, RNA enzymatic activities, nucleic acid-protein interactions, and RNA metobolism. Three hours of lecture and one hour of discussion per week. Students may not receive credit for both BIOL 4632 and BIOL 6632.

BIOL 6642 Advanced Plant Biology And Biotechnology: 3 semester hours

Prerequisites: BIOL 4602 or BIOL 4612. Topics may include molecular and cellular aspects of plant growth, development, and responses to environmental stress and pathogen attack, using the experimental approaches of genetics, molecular biology, and biochemistry. Plant growth manipulation and genetic engineering, including the techniques required for DNA transfer and plant regeneration, as well as current and potential future applications, such as engineered resistance to stress, developmental engineering, and metabolic engineering, also will be covered. Student may not receive credit for both BIOL 4642 and BIOL 6642.

BIOL 6652 Advanced Virology: 3 semester hours

Prerequisites: BIOL 2012, BIOL 3622, and graduate standing. This first half of the course entails a comparative study of the structure, replication, and molecular biology of viruses. The second half of the course focuses on the pathogenesis, control, and evolution of animal viruses. Three hours of lecture, one hour of discussion or seminar per week. Students may not receive credit for both BIOL 4652 and BIOL 6652.

BIOL 6699 Graduate Internship In Biotechnology: 1-4 semester hours

Prerequisites: Graduate standing and enrollment in graduate Biotechnology Certificate Program. 6 credit hours maximum (maximum of 8 combined credit hours of BIOL 6905 and internship) Internship will consist of period of observation, experimentation and on-the-job training in biotechnology laboratory. The laboratory may be industrial of academic. Credit will be determined by the number of hours the student works each week and in consultation between the intern's supervisor and the instructor. Internship assignments will be commensurate with the education and experience of the student.

BIOL 6889 Graduate Seminar: 2 semester hours

Presentation and discussion of various research problems in biology. Graduate student exposure to the seminar process.

BIOL 6905 Graduate Research In Biology: 1-10 semester hoursResearch in area selected by student in consultation with faculty members.

BIOL 6915 Graduate Research Practicum: 1-2 semester hours

Prerequisite: Consent of instructor. This course is designed for graduate students wishing to pursue research experience in an area outside their dissertation topic. The project can be techniques-oriented or focused on a specific research question. The credit hours will depend on the time commitment to the project as decided by the supervisory faculty member.

BIOL 6920 Topics In Biology: 2-5 semester hours

In-depth studies of selected topics in contemporary biology. May be repeated. Three lecture hours per week.

Chemistry Courses

CHEM 1011 Chemistry In The Environment And Every Day Living: 3 semester hours

This course examines the role of chemistry in everyday life and in the environment, and is intended for students not pursuing scientific or engineering majors. Chemical principles are introduced to the extent necessary for understanding of issues, but this course does not provide the basis for further technical courses. Two hours of lecture per week; on alternate weeks, one hour of discussion or two hours of laboratory.

CHEM 1052 Chemistry For The Health Professions: 4 semester hours

An introduction to general, nuclear, structural organic, organic reactions and biochemistry. This course is designed primarily for students in nursing and related health professions, and should not be taken by students majoring in the physical or biological sciences. Chemistry majors may include neither CHEM 1052 or CHEM 1062 in the 120 hours required for graduation. Four hours of lecture per week.

CHEM 1062 Organic & Biochem For The Health Professions: 2 semester hours

Prerequisites: Any college Chemistry course An introduction to organic reactions and biochemistry. CHEM 1062 is offered during the second half of the semester. Four hours of lecture per week.

CHEM 1081 Introductory Chemistry I-A: 3 semester hours

Prerequisites: MATH 1030 (or a score of 26 or higher on either the Math ACT or the Math Placement Test). This course is designed for students who want to have an in depth understanding of introductory concepts in Chemistry. CHEM 1081 covers the topics taught in the first half of CHEM 1111 but at a slower pace, thus allowing students time to fully integrate the concepts and thereby build a stronger foundation for their subsequent Chemistry courses. CHEM 1081 consists of the first half of CHEM 1111 (excluding laboratory experiments), whereas CHEM 1091 covers all the laboratory experiments and second half of lecture part of CHEM 1111. Three hours of lecture or workshop per week.

CHEM 1091 Introductory Chemistry IB: 3 semester hours

Prerequisites: CHEM 1081 and MATH 1035 (MATH 1035 may be taken concurrently). CHEM 1091 is the completion of CHEM 1111 for students who have completed CHEM 1081. The laboratory portion of this course will start at the beginning of the semester. The lecture part of the course starts in mid-semester and students join an ongoing CHEM 1111 class. Students who completed CHEM 1081 must complete CHEM 1091 to be considered as having completed the equivalent of CHEM 1111. Three hours of lecture and one and one half hours of workshop during the second half of the semester, and three hours of laboratory per week during the entire semester.

CHEM 1111 Introductory Chemistry I: 5 semester hours

Prerequisite: MATH 1030 (or a score of 26 or higher on either the Math ACT or the Missouri Math Placement Test) and MATH 1035 (MATH 1035 may be taken concurrently). Presents an introduction to the fundamental laws and theories of chemistry. Laboratory experiments are designed to demonstrate some aspects of qualitative and quantitative analysis and to develop skills in laboratory procedures. Chemistry majors may not include both CHEM 1011 and CHEM 1111 in the 120 hours required for graduation. Three hours of lecture, one and one-half hours of workshop, and three hours of laboratory per week.

CHEM 1121 Introductory Chemistry II: 5 semester hours

Prerequisite: CHEM 1111 or advanced placement. Lecture and laboratory are a continuation of CHEM 1111. Three hours of lecture, one and one-half hours of workshop and three hours laboratory per week.

CHEM 1134 Special Topics In Introductory Chemistry: 1-5 semester hours

Prerequisite: Consent of instructor. A lecture and/or laboratory course to assist transfer students to complete the equivalent of CHEM 1111 and CHEM 1121. Students enrolling in this course should contact the instructor prior to the first day of class for guidelines on course requirements, to choose a lab or workshop section, and to request enrollment in the course website.

CHEM 2223 Quantitative Analysis: 3 semester hours

Prerequisites: CHEM 1121 Principles and practice of elementary quantitative chemistry. The lecture treats descriptive statistics with emphasis on small samples; various types of competing equilibria pertaining to acid-base, complexometric, and potentiometric titrations; and an introduction to spectrophotometric processes. The laboratory provides exercises in titrimetric gravimetric, and spectrophotometric techniques. Both portions of the course deal with the analytical chemistry of environmentally-significant problems. Two hours of lecture and four and one-half hours of laboratory weekly.

CHEM 2612 Organic Chemistry I: 3 semester hours

Prerequisite: CHEM 1121 (may be taken concurrently). An introduction to the structure, properties, synthesis, and reactions of aliphatic and aromatic carbon compounds. Three hours of lecture per week.

CHEM 2622 Organic Chemistry II: 3 semester hours

Prerequisite: CHEM 2612. A systematic study of organic reactions and their mechanisms; organic synthetic methods. Three hours of lecture per week.

CHEM 2633 Organic Chemistry Laboratory: 2 semester hours

Prerequisite: CHEM 2612 An introduction to laboratory techniques and procedures of synthetic organic chemistry including analysis of organic compounds. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 3022 Introduction To Chemical Literature: 1 semester hour Prerequisites: CHEM 2622 (2622 may be taken concurrently) and

CHEM 3412. This course will familiarize the student with the literature of chemistry and its use. One hour of lecture per week.

CHEM 3302 Physical Chemistry For The Life Sciences: 3 semester hours

Prerequisites: CHEM 2612 and MATH 1800 or MATH 1100, and PHYSICS 1012 Principles and applications of physical chemistry appropriate to students pursuing degree programs in the life sciences. Topics will include thermodynamics, equilibria, kinetics, and spectroscopy. This course is intended for undergraduates seeking the B.S. degree in Biochemistry and Biotechnology and does not fulfill the physical chemistry required for other Chemistry B.A. and B.S. degree programs.

CHEM 3312 Physical Chemistry I: 3 semester hours

Prerequisites: CHEM 1121 and MATH 2000 (MATH 2000 may be taken concurrently), and PHYSICS 2111. Principles of physical chemistry, including thermodynamics, theory of gases, phase equilibria, kinetics, crystal structure, spectroscopy, and quantum mechanics. Three hours per week.

CHEM 3322 Physical Chemistry II: 3 semester hours

Prerquisite: CHEM 3312 and MATH 2000.Continuation of CHEM 3312. Three hours lecture per week.

CHEM 3333 Physical Chemistry Laboratory I: 2 semester hours

Prerequisites: CHEM 2223 and CHEM 3312 Experiments designed to illustrate principles introduced in CHEM 3312. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 3412 Basic Inorganic Chemistry: 2 semester hours

Prerequisite: CHEM 1121. This course reviews the principles of atomic structure and studies covalent and ionic bonding. Topics include properties of the elements and synthesis, reactions and bonding aspects of important main group and transition metal compounds. Two hours lecture per week.

CHEM 3643 Advanced Organic Chemistry Laboratory: 2 semester hours

Prerequisites: CHEM 3022 Identification of organic compounds by classical and spectroscopic methods; advanced techniques in synthesis and seperation of organic compounds. One hour of lecture and four and one-half hours of laboratory per week. Not for graduate credit.

CHEM 3905 Chemical Research: 1-10 semester hours

Prerequisite: Consent of instructor. Independent laboratory and library study, in conjunction with faculty member, of fundamental problems in chemistry. A written report describing the research is required.

CHEM 4212 Instrumental Analysis: 2 semester hours

Prerequisites: CHEM 3322 Principles and applications of modern methods of instrumental analysis for analytical chemistry measurements. Topics will be selected from the areas of electrochemistry, absorption and emission spectroscopy, chromatography, mass spectometry, surface analysis, and nuclear magnetic resonance. Two hours of lecture per week.

CHEM 4233 Laboratory In Instrumental Analysis: 2 semester hours

Prerequisites: CHEM 4212, CHEM 3333 Experiments designed to illustrate the principles and practices of instrumental analysis, involving the use of modern instrumentation in analytical chemistry applications. One hour of discussion and four and one-half hours of laboratory per week.

CHEM 4302 Survey Of Physical Chemistry With Applications To The Life Scienc: 3 semester hours

Prerequisites: CHEM 2612 and MATH 1800 or MATH 1100, and PHYSICS 1012. Principles of physical chemistry with applications to the life sciences. Topics will include thermodynamics, equilibria, kinetics, and spectroscopy. This course will be taught simultaneously with CHEM 3302, but students in CHEM 4302 will have additional assignments or projects. No student may receive credit for both CHEM 3302 and CHEM 4302.

CHEM 4343 Physical Chemistry Laboratory II: 2 semester hours

Prerequisites: CHEM 3322 (may be taken concurrently) and CHEM 3333. Experiments designed to illustrate principles introduced in CHEM 2322. One hour of lecture and four and one-half hours of laboratory per week. Not for graduate credit.

CHEM 4412 Advanced Inorganic Chemistry: 3 semester hours

Prerequisites: CHEM 3322 (may be taken concurrently), CHEM 3412, and CHEM 2622 An introduction to the chemistry of the elements, including atomic and molecular structure, acids and bases, the chemistry of the solid state, and main group and transition metal chemistry. Three hours of lecture per week.

CHEM 4433 Inorganic Chemistry Laboratory: 2 semester hours

Prerequisites: CHEM 3333, CHEM 3643, and CHEM 4412 (CHEM 3643 may be taken concurrently) The more sophisticated techniques of physical and analytical chemistry will be used to study inorganic compounds and their reactions. One hours of lecture and four and one half hours of laboratory per week. Not for graduate credit.

CHEM 4652 Spectroscopic Identification Of Organic Compounds: 3 semester hours

Prerequisites: CHEM 3643 An applied approach to the use of spectroscopic techniques in organic chemistry. Topics to include integrated applications of infrared and Raman spectroscopy, nuclear magnetic resonance (13C and 1H, cw and pulsed) and mass spectroscopy for the purpose of elucidating the structure of organic compounds. Three hours of lecture per week.

CHEM 4712 Biochemistry: 3 semester hours

Same as BIOL 4712. Prerequisites: CHEM 2612 and either BIOL 1811 or CHEM 2622. Examines the chemistry and function of cell constituents, and the interaction and conversions of intracellular substances. Students may not receive credit for both BIOL 4712 and CHEM 4712.

CHEM 4722 Advanced Biochemistry: 3 semester hours

Prerequisite: CHEM 4712. Selected advanced topics in the chemistry of life processes. Three hours lecture per week.

CHEM 4733 Biochemistry Laboratory: 2 semester hours

Prerequisites: CHEM 4712 (may be taken concurrently), and CHEM 2223.Laboratory study of biochemical processes in cellular and subcellular systems with emphasis on the isolation and purification of proteins (enzymes) and the characterization of catalytic properties. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 4772 Physical Biochemistry: 3 semester hours

Prerequisites: CHEM 3312 or CHEM 4712/ BIOL 4712 Designed to acquaint students with concepts and methods in biophysical chemistry. Topics that will be discussed include protein and DNA structures, forces involved in protein folding and conformational stability, protein-DNA interactions, methods for characterization and separation of macromolecules, electron transfer, and biological spectroscopy. Three hours of lecture per week.

CHEM 4797 Biochemistry and Biotechnology Seminar: 1 semester

Same as BIOL 4797. Prerequisites: Senior standing in the Biochemistry and Biotechnology program. This course will focus on selected publications related to biochemistry and biotechnology from both refereed journals and news sources. Students are expected to participate in discussions and to prepare oral and written presentations. Completion of the Major Field Achievement Test in Biochemistry & Biotechnology is a course requirement. May not be taken for graduate credit.

CHEM 4814 Special Topics In Chemistry: 1-10 semester hours
A reading and seminar course in selected advanced topics.

CHEM 4897 Seminar: 1 semester hour

Prerequisites: CHEM 3022 and senior standing Presentation of papers by students, faculty, and invited speakers. Chemistry majors must enroll during the semester in which they intend to graduate. Completion of a comprehensive examination during one of the semesters is a course requirement One hour of lecture and one hour of discussion per week.

CHEM 5394 Special Topics In Physical Chemistry: 1-10 semester hours

Prerequisite: Consent of instructor. Selected topics in physical chemistry; may be taken more than once for credit.

CHEM 5396 Directed Readings in Physical Chemistry: 1-3 semester hours

Prerequisites: Consent of Physical Chemistry Faculty. A series of readings of monographs, review papers, and/or research publications for a particular student directed at providing that student with appropriate background preparation for experimental or theoretical Ph.D.-level research in an area of physical chemistry. The particular readings will be selected by the physical chemistry staff. Potential topics include but are not limited to advances in Electrochemistry, Surface Chemistry, Thermodynamics, Molecular Spectroscopy, Quantitative Absorption Spectroscopy using new Methodologies, Applications of Group Theory in Spectroscopy, and Computational Chemistry. Assessment may be in various forms including by assignments and seminars. Students may take this course more than once for credit through the particular topic must be different in each case.

CHEM 5422 Coordination Chemistry: 3 semester hours

Prerequisite: CHEM 4412 or an equivalent course. Chemistry of the coordination compounds of the transition metals including such topics as kinetics and mechanisms of reaction, stereochemistry, ligand field theory, stability and electronic spectra. Three hours of lecture per week.

CHEM 5462 Organometallic Chemistry Of The Transition Elements: 3 semester hours

Prerequisites: CHEM 4412 or an equivalent course. A study of transition metal compounds containing metal-carbon bonds and related metal-element bonds, including their synthesis, structure and bonding, and reactions. Applications in organic synthesis and catalysis will also be presented. Three hours of lecture per week.

CHEM 5494 Special Topics In Inorganic Chemistry: 1-3 semester hours

Prerequisite: Consent of instructor. Selected topics in organic chemistry; may be taken more than once for credit.

CHEM 5602 Advanced Organic Chemistry I - Physical Organic: 3 semester hours

Prerequisites: CHEM 2622 and CHEM 3322 Mechanism and theory of organic chemistry. Topics to include kinetics, transition state theory, reaction intermediates, and stereochemical analysis. Three hours of lecture per week.

CHEM 5612 Advanced Organic Chemistry II - Reactions And Synthesis: 3 semester hours

Prerequisite: CHEM 2622 This course will examine a variety of organic transformations typically utilized in organic synthesis. Topics will include carbon-carbon bond formation, pericyclic reactions, oxidation, reduction, and functional group interconversions. Mechanism and stereochemistry will be emphasized. Three hours of lecture per week.

CHEM 5694 Special Topics In Organic Chemistry: 3 semester hours

Prerequisite: Consent of Instructor Advanced topics of special current interest. May be taken more than once for credit. Topics that may be offered include: Methods in Organic Synthesis, Organometallics in Organic Synthesis, Topics in Bioorganic Chemistry, Organic thermochemistry, Natural Products Chemistry, Stereochemistry, Photochemistry, Heterocyclic Chemistry, Medicinal Chemistry.

CHEM 5774 Bioinformatics: 3 semester hours

Prerequisites: CHEM 4712 or equivalent. This course introduces modern approaches in bioinformatics and computational biochemistry. Topics to be covered include a survey of biological databases, predictions from protein and DNA sequences, sequence alignment and sequence database searches, building phylogenetic trees, three-dimensional protein structure prediction, and molecular modeling and simulation.

CHEM 5794 Special Topics In Biochemistry: 3 semester hours

Prerequisites: Consent of instructor Selected topics in biochemistry. May be taken more than once for credit.

CHEM 6196 Advanced Reading In Chemistry: 1 semester hour

Prerequisite: Admission to the Ph.D. program. Reading and examinations in the sub-disciplines of chemistry. Enrollment must begin after completion of any course deficiencies.

CHEM 6487 Problem Seminar In Inorganic Chemistry: 1 semester hour

Prerequisite: Consent of the inorganic chemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. Ph.D. students may take more than once for credit. Up to three credits may be applied to the M.S. degree program.

CHEM 6687 Problem Seminar In Organic Chemistry: 1-3 semester hours

Prerequisite: Consent of the organic chemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. PH.D. Students may take more than once for credit. Up to three credits may be applied to the M.S. degree programs.

CHEM 6787 Problem Seminar In Biochemistry: 1 semester hour

Prerequisite: Consent of the biochemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. Ph.D. students may take more than once for credit. Up to three credits may be applied to the M.S. degree program.

CHEM 6812 Introduction To Graduate Study In Chemistry: 1 semester hour

Prerequisite: Consent of Graduate Advisor. Topics to be covered include: techniques of teaching of chemistry in colleges and universities, methods of instruction and evaluation; role and responsibilities of the Graduate Teaching Assistant in laboratory instruction; safety in the undergraduate laboratory, safety practices, emergency procedures; selection of a research project and thesis advisor.

CHEM 6822 Introduction To Graduate Research In Chemistry: 1 semester hour

Prerequisite: Consent of instructor. Topics to include: safety in the research laboratory, safety practices, emergency procedures, hazardous materials, waste disposal, radiation safety; research ethics, chemistry information retrieval, computer assisted information retrieval, types of databases, searching bibliographic data bases.

CHEM 6832 Strategies for Independent Research Proposal Development: 1 semester hour

Prerequisites: CHEM 6822 and Consent of Graduate Advisor. Topics include: strategies for identification of research topics in chemistry and biochemistry, techniques for database literature search, critical analysis of existing research knowledge, introduction to standard grant proposal formats, technical aspects in preparation of a research plan and accompanying sections, use of bibliographical software, and overview and practice of the peer review process.

CHEM 6897 Chemistry Colloquium: 1 semester hour

Presentation of papers by students, faculty and invited speakers. One hour per week.

CHEM 6905 Graduate Research In Chemistry: 1-10 semester hours

Biology

General Information

Degrees and Areas of Concentration

The Department of Biology provides academic programs leading to the B.A. or B.S. in Biology. In cooperation with the College of Education, the department offers the B.S. in Secondary Education with a major in biology and the B.A. or B.S. in Biology with teacher certification. It also offers graduate work leading to the Master of Science and the Doctor of Philosophy degrees in Biology. Biology faculty members are engaged in teaching and research in areas ranging from cell and molecular biology to population and community studies.

Minor in Biology

Students majoring in another discipline may earn a minor in biology by completing a prescribed course of study. Unique programs can be developed to coordinate with special career objectives.

Departmental Honors

The Department of Biology offers an Honors Program to train students in conducting research in areas of biological research currently under study in the Department.

Graduate Studies

The Department of Biology offers graduate work leading to the M.S. and Ph.D. degrees in biology. Graduate students will normally work toward an M.S. or Ph.D. degree in two broad areas of biology: a) cellular, molecular, and developmental biology, or b) ecology, evolution, and systematics. Students in the M.S. and Ph.D. programs also have the opportunity to do their graduate work in collaboration with scientists at the Missouri Botanical Garden, the Donald Danforth Plant Science Center, or the Saint Louis Zoo through cooperative graduate programs.

Facilities

Department facilities include research and teaching laboratories, environmental chambers, greenhouses, and a large array of supporting modern research instrumentation. Graduate research can be pursued using facilities of the Missouri Botanical Garden, the Donald Danforth Plant Science Center, or the Saint Louis Zoo. Several sites within an hour of campus are suitable for regional field studies, including state parks, wildlife conservation areas, the Shaw Nature Reserve, and Washington University's Tyson Research Center. UMSL is a member of the St. Louis University Research Station Consortium that operates Lay and Reis Field Stations in Missouri and is also a member of the Organization for Tropical Studies, which operates three field stations in Costa Rica. CEIBA Biological Centre in Guyana has hosted several UMSL courses and student researchers. Student researchers work independently at research stations throughout the tropics.

Cooperative Programs

The department participates in a cooperative consortium program in biology with Washington University, Saint Louis University, Southern Illinois University-Edwardsville, and the Missouri Botanical Garden.

Program Objectives and Career Prospects

The degree program at the baccalaureate level is designed to prepare the student for further professional training in areas such as medicine, dentistry, veterinary medicine, optometry, plant science, conservation, and related areas or for further graduate training in research in biology.

The Undergraduate Certificates in Biotechnology and Conservation Biology are for majors interested in careers in biotechnology and associated areas and in conservation, respectively.

The Master of Science program is an extension of the undergraduate program and provides the research-oriented training and education necessary for students to enter doctoral programs in biology and develops professional biologists qualified to function in responsible technical positions. It also trains students to become effective secondary school and junior college biology teachers.

The Graduate Certificates in Biotechnology and in Tropical Biology and Conservation provides professional training in the areas of biotechnology and conservation.

The Ph.D. program prepares students to be research biologists in academics or other professional fields in ecology, evolution and systematic and cellular and molecular biology. Employment opportunities are available in college or university research and teaching, in government and public institutions such as museums, botanical gardens and conservation organizations, and in industry.

Undergraduate Studies General Education Requirements

Students must satisfy the university and college general education requirements (p. 28). Some Biology courses may be used to meet the science and mathematics requirement of the university.

Candidates for the B.A. degree must fulfill the foreign language requirement of the College of Arts and Sciences. There is no foreign language requirement for the B.S. degree.

Satisfactory/Unsatisfactory Option

Up to 18 credit hours may be taken on a satisfactory/ unsatisfactory (s/u) basis. Excluded from this option are required courses in biology, chemistry, physics, and mathematics.

Non-major biology courses

The following 1000 level biology courses do not count toward the biology credit hours required for a major in biology. Moreover, if biology majors take these courses, they are treated as biology courses when computing the 70 credit hours outside of biology needed to be included in the 120 total credit hours required for graduation.

BIOL 1012 (p. 94)	General Biology	3
BIOL 1013 (p. 94)	General Biology Laboratory	2
BIOL 1102 (p. 94)	Human Biology	3
BIOL 1131 (p. 94)	Human Physiology And Anatomy I	4
BIOL 1141 (p. 94)	Human Physiology And Anatomy II	4
BIOL 1162 (p. 94)	General Microbiology	3

BIOL 1202 (p. Environmental Biology 94)

Degree Requirements Bachelor of Arts in Biology

The B.A. degree provides maximum flexibility for biology majors to pursue an undergraduate liberal arts course of study that can lead to professional careers in medicine, allied health, public and environmental health, law, and graduate studies in the life sciences. Candidates must have a cumulative grade point average of 2.0 or better in biology courses. Effective fall semester 2009, candidates must also earn a minimum grade of C- in all core courses.

All B.A. degree majors must take at least 39 credit hours but not more than 50 hours in appropriate biology course work. Transfer student must satisfactorily complete at least 18 credit hours of UMSL biology course work (including one laboratory) at the 2000 level or above before receiving a B.A. degree from the College of Arts and Sciences with a major in biology.

Lecture and Seminar Course Requirements

Core Courses.

The following biology courses or their equivalents are required:

BIOL 4501 (p. 94)	Flowering Plant Families: Phylogeny And Diversification	5
BIOL 4422 (p. 94)	Entomology	3
BIOL 4402 (p. 94)	Ornithology	3
BIOL 2501 (p. 94)	Biology Of Plants	5
BIOL 2482 (p. 94)	Microbiology	3
BIOL 2402 (p. 94)	Vertebrate Anatomy, Evolution and Ecology	3
BIOL 2102 (p. 94)	General Ecology	3
Select one of the	following diversity courses:	3-5
SEC ED 4985 (p. 94) & BIOL 4986 (p. 94)	Curriculum And Methods Of Teaching Life Sciences and Laboratory In Teaching Life Sciences	
BIOL 4889 (p. 94)	Senior Seminar	
Select one of the	following:	
BIOL 3622 (p. 94)	Cell Biology	
BIOL 3302 (p. 94)	Introduction To Evolution	
BIOL 2012 (p. 94)	Genetics	
BIOL 1831 (p. 94)	Introductory Biology: From Molecules To Organisms	
BIOL 1821 (p. 94)	Introductory Biology: Organisms And The Environment	

Elective Courses

Three additional biology lecture courses, at the 2000 level or higher are required. They may be selected from any of the lecture or lecture-laboratory courses offered. Selection of these courses should reflect the career interest of the student. Biology courses taken to fulfill basic skill requirements (e.g., statistics requirement or biochemistry option) can be used to satisfy this requirement).

At least two biology lecture courses taken as part of the core or as electives must be at the 4000 level or higher. No more than one of these higher level courses can be used to fulfill other requirements (e.g., diversity or statistics requirements, or biochemistry option).

Laboratory Course Requirements

Three biology laboratory courses at the 2000 level or higher are required. They may be taken from any of the lecture-laboratory or laboratory courses offered. Two credit hours of BIOL 3699 (p. 94), BIOL 4299 (p. 94), BIOL 4905 (p. 94), or BIOL 4915 (p. 94) (no combination of these courses allowed) can be used to fulfill one laboratory requirement. Students may take CHEM 4733 (p. 94) to satisfy one of these laboratory course requirements, but students may not use both BIOL 4713 (p. 94) and to CHEM 4733 (p. 94) fulfill this requirement.

Basic Skills Requirement

A well-rounded biologist needs certain skills outside the biology subject matter. The basic skills requirement is designed to provide the student with a background in communication skills and knowledge in associated science areas.

Communication Skills. Courses in foreign languages and in writing are required for development of the basic communication skills needed to transmit scientific information. The following satisfy this requirement:

Foreign Language

(p. 94)

The foreign language requirement of the College of Arts & Sciences fulfills the departmental requirement.		
Writing		
ENGL 3160 (p. Writing In The Sciences (strongly preferred) 94)	3	
or ENGL 3100 (p. Junior-Level Writing 94)		
Total Hours	6	

Associated Science Area. The following courses or their equivalents must be successfully completed in science areas related to biology:

PHYSICS 1011 (p. 94)	Basic Physics 1	4
PHYSICS 1012 (p. 94)	Basic Physics II	4
CHEM 1111 (p. 94)	Introductory Chemistry I	5
CHEM 1121 (p. 94)	Introductory Chemistry II	5
CHEM 2612 (p. 94)	Organic Chemistry I	3
Select one of the	following:	2-3
CHEM 2223	Quantitative Analysis	

CHEM 2622 (p. 94)	Organic Chemistry II	
CHEM 2633 (p. 94)	Organic Chemistry Laboratory	
BIOL/CHEM 4712 (p. 94)	Biochemistry	
MATH 1310 (p. 94)	Elementary Statistical Methods	3
MATH 1035 (p. 94)	Trigonometry	2
MATH 1100 (p. 94)	Basic Calculus	3
or MATH 1800 (p. 94)	Analytic Geometry And Calculus I	
Select one of the	following:	3-4
BIOL 4122 (p. 94)	Biometry	
MATH 1310 (p. 94)	Elementary Statistical Methods	
MATH 1320 (p. 94)	Applied Statistics I	
PSYCH 2201 (p. 94)	Psychological Statistics	
Total Hours		34-36

Bachelor of Science in Biology

The B.S. degree in biology is designed to prepare students for basic technical positions and graduate studies in the life sciences. Candidates for the degree have the same core courses and general education requirements as those seeking the Bachelor of Arts degree, as well as additional requirements in depth of study, laboratory experience, communication skills, and background in associated science areas. Candidates must have a cumulative grade point average of 2.0 or better in biology courses. Effective Fall semester 2009, candidates must earn a minimum grade of C- in all core courses.

There is no foreign language requirement for the B.S. degree. However, students should realize that the literature for biological studies is in many different languages and the ability to extract information from this literature is an important skill.

To fulfill the requirements for the B.S. degree a minimum of 44 hours but not more than 50 hours must be completed in appropriate biology course work. Transfer students must satisfactorily complete at least 22 credit hours of UMSL biology course work (including two laboratory courses) at the 2000 level or higher before receiving a B.S. degree in biology.

Lecture and Seminar Course Requirements

Core Courses

The following biology courses or their equivalents are required:

BIOL 1821 (p. 94)	Introductory Biology: Organisms And The Environment	5
BIOL 1831 (p. 94)	Introductory Biology: From Molecules To Organisms	5
BIOL 2012 (p. 94)	Genetics	3

	BIOL 3302 (p. 94)	Introduction To Evolution	3
	BIOL 3622 (p. 94)	Cell Biology	3
	Select one of the	following:	2-6
	BIOL 4889 (p. 94)	Senior Seminar	
	SEC ED 4985 (p. 94) & BIOL 4986 (p. 94)	Curriculum And Methods Of Teaching Life Sciences and Laboratory In Teaching Life Sciences (for those seeking teacher certification)	
	Select one of the	following diversity courses:	3-5
	BIOL 2102 (p. 94)	General Ecology	
	BIOL 2402 (p. 94)	Vertebrate Anatomy, Evolution and Ecology	
	BIOL 2482 (p. 94)	Microbiology	
	BIOL 2501 (p. 94)	Biology Of Plants	
	BIOL 4402 (p. 94)	Ornithology	
	BIOL 4422 (p. 94)	Entomology	
6	BIOL 4501 (p. 94)	Flowering Plant Families: Phylogeny And Diversification	

Total Hours 24-30

Elective Courses

Four additional biology lecture courses at the 2000 level or higher are required. They may be selected from any of the lecture or lecture-laboratory courses offered. Selection of these courses should reflect the career interest of the student and may be selected from optional academic tracks (see below). Biology courses taken to fulfill basic skill requirements (e.g., statistics requirement or biochemistry option can be used to satisfy this requirement.

At least two biology lecture courses taken as electives must be at the 4000 level or higher. No more than one of these higher level courses can be used to fulfill other requirements (e.g., statistics requirement or biochemistry option).

Laboratory Course Requirements

Four biology laboratory courses at the 2000 level or higher are required. They may be selected from any of the lecture-laboratory or laboratory courses offered. Two credit hours of BIOL 3699 (p. 94), , BIOL 4905 (p. 94), or BIOL 4915 (p. 94) (no combination of these courses allowed) can be used to fulfill one laboratory requirement. Students may take CHEM 4733 (p. 94) to satisfy one of these laboratory course requirements, but students may not use both BIOL 4713 (p. 94) and CHEM 4733 (p. 94) to fulfill this requirement.

Basic Skills Requirement

A well-rounded biologist needs certain skills outside the biology subject matter. The basic skills requirement is designed to provide the student with a background in communication skills and knowledge in associated science areas.

Communication Skills

Courses in both formal speaking and writing are required for development of the basic communication skills needed to transmit scientific information.

Formal Speaking

COMM 1040 (p. 94)	Introduction To Public Speaking	3
Writing		
ENGL 3160 (p. 94)	Writing In The Sciences (strongly preferred)	3
or ENGL 3110 (p. 94)	Junior Level Writing For International Students	
Total Hours		6

Associated Science Area

The following courses or their equivalents must be successfully completed:

CHEM 1111 (p.	Introductory Chemistry I	5
94) CHEM 1121 (p. 94)	Introductory Chemistry II	5
CHEM 2612 (p. 94)	Organic Chemistry I	3
CHEM 2622 (p. 94)	Organic Chemistry II	3
CHEM 2223 (p. 94)	Quantitative Analysis	3
MATH 1030 (p. 94)	College Algebra	3
MATH 1035 (p. 94)	Trigonometry	2
MATH 1100 (p. 94)	Basic Calculus	3
or MATH 1800 (p. 94)	. Analytic Geometry And Calculus I	
Select one of the	following:	3-4
BIOL 4122 (p. 94)	Biometry	
MATH 1310 (p. 94)	Elementary Statistical Methods	
MATH 1320 (p. 94)	Applied Statistics I	
PSYCH 2201 (p. 94)	Psychological Statistics	
PHIL 2256 (p. 94)	Bioethics	3
or PHIL 3380 (p. 94)	Philosophy Of Science	
94) Total Hours		41-42

Research Opportunity

Students in the B.S. Biology degree program who are interested in gaining research experience are encouraged to take a minimum 2 credit hours of

undergraduate research, BIOL 4905. The privilege of doing undergraduate research provides students with a first-hand opportunity to experience the research process under the supervision of a faculty member or off-campus scientist. The project normally includes a library search of pertinent literature, laboratory or field experience, and a summary paper and a presentation, all based on an average 8 hr. per week per credit hour for a 15 week semester.

Departmental Honors Thesis

The Department of Biology offers the more motivated and highly achieving students the opportunity to present primary research in the form of a written Honors Thesis. The first step in conducting an undergraduate thesis is to identify a faculty research mentor; the mentor, along with two UMSL faculty members, will be readers of the thesis. It is highly recommended that students arrange to work full time on their honors thesis during the summer between the junior and senior years. Some funds are available from university, the Harris World Ecology Center, and departmental fellowships, but in more cases support will come from the sponsoring lab.

The thesis will be completed and presented orally in an advertised public forum by the first of the month in which graduation is to occur. The readers of the thesis will decide on the appropriate level of honors, and will report their recommendation to the Dean of Arts and Sciences, so that the student is recognized at graduation as having graduated with Honors in Biology (or High Honors in Biology). In addition to fulfilling the coursework required for a B.S. or B.A. in Biology and the Honors Thesis itself, students must:

- 1. carry at least a 3.3 GPA,
- 2. complete a minimum 2 credit hours of BIOL 4905 (Research).

Academic Tracks within the Major of Biology

Biology majors may choose to focus their elective hours in a particular sub-discipline of biology, or academic track. These tracks are groups of departmental courses that fit within sub-disciplines of biology and are recommendations for students wanting to pursue careers in specific sub-disciplines. Academic tracks are NOT majors and are only intended to serve as guides for courses within a particular area of biology and are represented by current faculty expertise. Selecting an academic track does not prevent a student from taking courses in another track. Students should not expect to take all recommended courses for each academic track. Students may choose not to select an academic track. Currently, the Biology Department offers three academic tracks: Cell and Molecular Biology; Ecology, Evolution and Conservation Biology; and Preprofessional/Health Sciences.

Cell and Molecular Biology Track

	BIOL 2482	Microbiology	3
	BIOL 2483	Microbiology Laboratory	2
	BIOL 4442	Developmental Biology	3
	BIOL 4550	Bacterial Pathogenesis	3
	BIOL 4602	Molecular Biology	3
	BIOL 4612	Molecular Genetics Of Bacteria	3
,	BIOL 4614	Biotechnology Laboratory I	4
	BIOL 4615	Biotechnology Laboratory II	4
	BIOL 4622	Cellular Basis of Disease	3
	BIOL 4632	Nucleic Acid Structure And Function	3
	BIOL 4642	Plant Molecular Biology and Genetic Engineering	3

BIOL	4652	Virology	3
BIOL	4712	Biochemistry	3
BIOL	4713	Techniques In Biochemistry	2
BIOL	4842	Immunobiology	3
Ecol	ogy, Evolutio	on and Conservation Biology Track	
BIOL	2102	General Ecology	3
BIOL	2103	General Ecology Laboratory	2
BIOL	2402	Vertebrate Anatomy, Evolution and Ecology	3
BIOL	2403	Vertebrate Anatomy, Evolution and Ecology Laboratory	2
BIOL	2482	Microbiology	3
BIOL	2483	Microbiology Laboratory	2
BIOL	2501	Biology Of Plants	5
BIOL	3102	Animal Behavior	3
BIOL	3103	Animal Behavior Laboratory	2
BIOL	3123	Tropical Resource Ecology Field Studies	2
BIOL	3202	Conservation Biology	3
BIOL	3203	Conservation Biology Laboratory	2
BIOL	3802	Vertebrate Physiology	3
BIOL	3803	Vertebrate Physiology Lab	2
BIOL	4102	Behavioral Ecology	3
BIOL	4112	Evolution Of Animal Sociality	3
BIOL	4122	Biometry	3
BIOL	4182	Population Biology	3
BIOL	4192	Applications of Geographic Information Systems	5
BIOL	4222	Tropical Ecology And Conservation	3
	4245	Field Biology	3
	4299	Practicum In Conservation	2
	4402	Ornithology	3
	4403	Ornithology Laboratory	2
	4422	Entomology	3
	4423	Entomology Laboratory	2
BIOL		Flowering Plant Families: Phylogeny And Diversification	5
Pre-p	orofessional	Health Sciences Track	
BIOL	2402	Vertebrate Anatomy, Evolution and Ecology	3
BIOL	2403	Vertebrate Anatomy, Evolution and Ecology Laboratory	2
BIOL	2482	Microbiology	3
BIOL	2483	Microbiology Laboratory	2
BIOL	3802	Vertebrate Physiology	3
BIOL	3803	Vertebrate Physiology Lab	2
BIOL	4442	Developmental Biology	3
BIOL	4550	Bacterial Pathogenesis	3
BIOL	4602	Molecular Biology	3
BIOL	4622	Cellular Basis of Disease	3
BIOL	4652	Virology	3
BIOL	4712	Biochemistry	3
BIOL	4822	Introduction To Neuroscience	3
	4842	Immunobiology	3

Bachelor of Science in Education with Emphasis in Biology

The B.S. Ed. is a professional degree designed for individuals who wish to pursue a teaching career in biology in the secondary schools. The biology requirements parallel those for the B.A. degree with the exception that SEC ED 4985 (p. 94), Curriculum and Methods of Teaching Life Sciences, and BIOL 4986 (p. 94), Laboratory in Teaching Life Sciences, are substituted for BIOL 4889 (p. 94), Senior Seminar. Students must also fulfill the requirements for the B.S. Ed. degree as prescribed by the College of Education.

Bachelor of Arts in Biology with Teacher Certification

PSYCH 1003 (p. General Psychology

Biology majors interested in teaching biology in secondary schools may obtain teacher certification in cooperation with the College of Education by fulfilling the B.A. or B.S. with certain prescribed courses in biology, with the exception of BIOL 4889 (p. 94), Senior Seminar, and in addition, completing the following courses:

3

94)	General Esychology	3
TCH ED 2209 (p. 94)	Foundations of Teaching in American Schools	3
ENGL 3160 (p. 94)	Writing In The Sciences	3
Select one of the	following:	3
HIST 1001 (p. 94)	American Civilization To 1865	
HIST 1002 (p. 94)	American Civilization 1865 To Present	
HIST 1003 (p. 94)	African-American History	
POL SCI 1100 (p. 94)	Introduction To American Politics	3
PHIL 3380 (p. 94)	Philosophy Of Science	3
COMM 1040 (p. 94)	Introduction To Public Speaking	3
TH DAN 1210 (p. 94)	Fundamentals Of Acting	3
GEOL 1001 (p. 94)	General Geology	4
ATM SCI 1001 (p. 94)	Elementary Meteorology	4
ED PSY 3312 (p. 94)	Psychology of Learning, Instruction, and Assessment	3
TCH ED 3310 (p. 94)	Introduction To Instructional Methods	3
TCH ED 4391 (p. 94)	Literacy for Adolescent Learners in Content Areas	3
Content Areas		
SEC ED 4985 (p. 94)	Curriculum And Methods Of Teaching Life Sciences	4
BIOL 4986 (p. 94)	Laboratory In Teaching Life Sciences	2
SEC ED 4990 (p. 94)	Practicum II: Site Based Experience	12

SEC ED 4999 (p.	Biology Science Teaching Seminar
94)	

Total Hours 62

3

Because specific biology courses are required for teaching endorsement, students are advised to contact the Department of Biology AND the College of Education for special advising regarding teacher certification.

Minor in Biology

Students may minor in biology by completing a minimum of 19 credit hours in biology, of which at least 9 hours of the biology course credits must be taken in residence at UMSL.

Requirements are:

BIOL 1821 (p. 94)	Introductory Biology: Organisms And The Environment	5
BIOL 1831 (p. 94)	Introductory Biology: From Molecules To Organisms	5
BIOL 2012 (p. 94)	Genetics	3
	urses totaling no less than 6 credit hours. At least d be at the 3000 level or above.	6
Total Hours		19

All students must plan an appropriate course of study in consultation with an advisor, and the program must be given prior approval by the Chairperson of the Department of Biology. Under certain circumstances, a student may deviate from the prescribed course of study and substitute a group of courses that exhibit a coherent area of specialization to coordinate with a career objective.

Candidates must have a cumulative grade point average of 2.0 or better in the minor, courses may be taken on a satisfactory/ unsatisfactory (s/u) basis.

Minor in Environmental Studies

This is an interdisciplinary program that integrates the natural and physical sciences with the social sciences and humanities to study current environmental problems resulting from human population growth, global climate change, overuse of natural resources, pollution and biodiversity loss. A minimum 18 hours are required, 9 of which must be in the natural and physical sciences, including the listed Honors College courses, and 9 must be from the social sciences and humanities. Both BIOL 1202 (p. 94) (Environmental Biology) and POL SCI 3480 (p. 94) Environmental Politics must be completed as part of the total 18 hours. A total of 12 hours must be taken at or above the 2000 level, and one course at or above the 3000 level. At least 9 hours must be taken while in residence at UMSL. A minimum GPA of 2.0 is required.

ANTHRO 1005 (p. 94)	Introduction To Biological Anthropology	4
ANTHRO 3270 (p. 94)	Human Ecology, Cultural Collapse, and Sustainable Developments	3
BIOL 1202 (p. 94)	Environmental Biology	3
BIOL 1821 (p. 94)	Introductory Biology: Organisms And The Environment	5
BIOL 2102 (p. 94)	General Ecology	3

BIOL 2103 (p. 94)	General Ecology Laboratory	2
BIOL 2501 (p. 94)	Biology Of Plants	5
BIOL 3202 (p. 94)	Conservation Biology	3
BIOL 3203 (p. 94)	Conservation Biology Laboratory	2
BIOL 3302 (p. 94)	Introduction To Evolution	3
BIOL 4102 (p. 94)	Behavioral Ecology	3
BIOL 4192 (p. 94)	Applications of Geographic Information Systems	5
BIOL 4222 (p. 94)	Tropical Ecology And Conservation	3
BIOL 4245 (p. 94)	Field Biology	3
BIOL 4270 (p. 94)	Global Climate Change	3
BIOL 4402 (p. 94)	Ornithology	3
BIOL 4422 (p. 94)	Entomology	3
BIOL 4501 (p. 94)	Flowering Plant Families: Phylogeny And Diversification	5
ECON 4160 (p. 94)	Geospatial Analysis In The Social Sciences	3
ECON 4170 (p. 94)	Fundamentals Of Cost-Benefit Analysis	3
ECON 4550 (p. 94)	Natural Resource Economics	3
GEOL 1002 (p. 94)	Historical Geology	4
HONORS 2050 (p. 94)	Inquiries In The Natural Sciences	1-3
HONORS 2051 (p. 94)	Inquiries in the Sciences: Laboratory or Field Work	1
INTL BUS 4281 (p. 94)	Entrepreneurship in the Global Environment	3
PHIL 2255 (p. 94)	Environmental Ethics	3
POL SCI 3480 (p. 94)	Environmental Politics	3
POL SCI 3595 (p. 94)	Studies In Comparative Politics	3
POL SCI 3850 (p. 94)	International Organizations And Global Problem- Solving	3
POL SCI 3900 (p. 94)	Special Readings	1-10
POL SCI 4460 (p. 94)	Urban Planning And Politics	3

Undergraduate Certificate in Biochemistry

The university offers a certificate program for science majors who are interested in careers in biochemistry. The Biochemistry Certificate is an

interdisciplinary specialization that may be earned within either a biology or chemistry major. To earn the certificate, biology majors must enroll in the Biochemistry Certificate Program upon the completion of 60 credit hours, fulfill all the science (biology, chemistry, math, and physics) course requirements for the B.S. degree in biology, and successfully complete the following courses:

CHEM 2622 (p. 94)	Organic Chemistry II	3
BIOL/CHEM 4712 (p. 94)	2 Biochemistry	3
CHEM 2223 (p. 94)	Quantitative Analysis	3
CHEM 2633 (p. 94)	Organic Chemistry Laboratory	2
BIOL 4713 (p. 94)	Techniques In Biochemistry	2
CHEM 4722 (p. 94)	Advanced Biochemistry	3
Select three of the	e following:	8-10
BIOL 2482 (p. 94)	Microbiology	
BIOL 2483 (p. 94)	Microbiology Laboratory	
BIOL 4442 (p. 94)	Developmental Biology	3
BIOL 4602 (p. 94)	Molecular Biology	
BIOL 4612 (p. 94)	Molecular Genetics Of Bacteria	
BIOL 4614 (p. 94)	Biotechnology Laboratory I	
BIOL 4622 (p. 94)	Cellular Basis of Disease	
BIOL 4632 (p. 94)	Nucleic Acid Structure And Function	
BIOL 4842 (p. 94)	Immunobiology	

Total Hours 2

Undergraduate Certificate in Biotechnology

The university offers an undergraduate certificate program for biology majors who are interested in careers in biotechnology including biochemistry, microbiology, molecular biology, cell biology, and developmental biology. To earn the certificate, biology majors must enroll in the Biotechnology Certificate Program upon the completion of 60 credit hours, fulfill all the science (biology, chemistry math, and physics) course requirements for the B.S. degree in biology, and successfully complete the following courses:

BIOL 2013 (p. 94)	Genetics Laboratory	2
BIOL 2482 (p. 94)	Microbiology	3
BIOL 2483 (p. 94)	Microbiology Laboratory	2

Total Hours		23-2
CHEM 4722 (p. 94)	Advanced Biochemistry	
BIOL 4842 (p. 94)	Immunobiology	
BIOL 4652 (p. 94)	Virology	
BIOL 4632 (p. 94)	Nucleic Acid Structure And Function	
BIOL 4622 (p. 94)	Cellular Basis of Disease	
BIOL 4615 (p. 94)	Biotechnology Laboratory II	
Select one of the	following:	3-4
or BIOL 4612 (p. 94)	Molecular Genetics Of Bacteria	
BIOL 4602 (p. 94)	Molecular Biology	3
BIOL/CHEM 4712 (p. 94)	2 Biochemistry	3
BIOL 4614 (p. 94)	Biotechnology Laboratory I	4
CHEM 2622 (p. 94)	Organic Chemistry II	3

Undergraduate Certificate in Conservation Biology

The Certificate in Conservation Biology is a multidisciplinary program of study integrating theoretical and applied topics associated with conservation biology. The certificate is intended for undergraduate students with majors in biology or in any other field who wish to develop a specialization in conservation. The certificate is offered by the Department of Biology in cooperation with the departments of Anthropology, Economics, History, Political Science, Social Work, and Sociology. Building on a core curriculum, students can elect courses from these departments to complete their requirements. Regularly enrolled undergraduates at UMSL or individuals with baccalaureate degrees 27-29 who wish to receive a Certificate in Conservation Biology are eligible to participate in the conservation certificate program. To participate, students must apply to the certificate program. Application forms are available from the Biology Department. Guidelines for admission to the certificate program are also available. Individuals with baccalaureate degrees who are interested in this certificate must apply to the university as unclassified undergraduates. The certificate requires completion of 21 credit hours, outlined below. Students should consult the Bulletin with regard to prerequisites for any of the courses listed here.

Core Courses

Biology		
BIOL 2102 (p. 94)	General Ecology	3
BIOL 3202 (p. 94)	Conservation Biology	3
BIOL 3203 (p. 94)	Conservation Biology Laboratory	2
BIOL 4299 (p. 94)	Practicum In Conservation	2

Electives

The remaining 11 credits must be selected from courses listed below. Five credits must be taken from within biology and 6 credits outside biology, from at least two departments.

Anthropology

ANTHRO 2120 Native Peoples Of North America (p. 94)

ANTHRO 2131 Archaeology Of Missouri (p. 94)

ANTHRO 2132 Archaeology Of North America (p. 94)

Biology

BIOL 3123 (p. Tropical Resource Ecology Field Studies

BIOL 4102 (p. Behavioral Ecology

BIOL 4112 (p. Evolution Of Animal Sociality

BIOL 4182 (p. Population Biology

BIOL 4245 (p. Field Biology

94)

BIOL 4402 (p. Ornithology

94)

BIOL 4403 (p. Ornithology Laboratory

BIOL 4422 (p. Entomology

94)

BIOL 4423 (p. Entomology Laboratory

94)

BIOL 4501 (p. Flowering Plant Families: Phylogeny And

Diversification 94)

Economics

ECON 3300 International Economic Analysis

(p. 94)

ECON 3301 International Finance

(p. 94)

ECON 4550 Natural Resource Economics

(p. 94)

History

HIST 3000 (p. Selected Topics In History

94)

Political Science

POL SCI 3480 Environmental Politics

(p. 94)

POL SCI 3590 Women and Leadership World-Wide: Breaking the Glass Ceiling

(p. 94)

POL SCI 3850 International Organizations And Global Problem-

(p. 94) Solving

POL SCI 4510 Comparative Public Policy And Administration

(p. 94)

21 **Total Hours**

Pre-professional Graduation

The Department of Biology sponsors a 3+4 Program for the UMSL College of Optometry.

In this program students may be admitted to the College of Optometry after completing three years (90 semester hours) of study in the Department of Biology. The undergraduate degree is granted when students satisfactorily complete the first year of optometry school. One or more of the following conditions must be met in order to qualify for the undergraduate degree. All general education requirements and all requirements for the major, except electives, must be completed. Any deficiency in required courses must be remedied with courses taken at UMSL within three years after entering the College of Optometry. Up to 6 hours from the College of Optometry may be substituted for undergraduate degree requirements, with approval of the Department of Biology.

UMSL – Logan College (3+3 program)

The Department of Biology has developed a 3+3 articulation agreement with Logan College of Chiropractic (LCC). This program enables qualified students the opportunity to complete a Bachelor of Science degree in Biology for the University of Missouri - St. Louis as well as a Doctor of Chiropractic for Logan College of Chiropractic in six years.

The program is only open to students who enter UMSL as first-time freshmen.

Participants must complete their first 90 hours of college work (3 years) at UMSL following a prescribed curriculum.

Participants who have achieved at least 3.25 GPA at UMSL will automatically be granted admission by Logan College of Chiropractic.

After successfully completing an additional 30 credit hours (4th year) at Logan, a student will receive a BS in Biology degree from UMSL.

After completing two additional years at Logan, the student will receive a doctorate in chiropractic

The acceptance of transfer credits or testing toward completion of degree requirements shall be governed by current policies of UMSL. However, no more than 20 credits of required courses, and NONE of the science credits required for admission to LCC may be earned via examination or transfer from another school

LCC shall accept, for the entrance date of their choice, all students who successfully complete the Pre-Chiropractic Program with a cumulative GPA of 3.25 or higher and meet all other criteria for admission

Students who earn less than a 3.25 GPA, but at least a 2.50 GPA, will be eligible for admission to LCC, and will receive appropriate consideration in the admission process for having completed the UMSL Pre-Chiropractic Program, but will not receive the assurance of a seat reserved for students earning a 3.25 or higher GPA

Students will make application to LCC one year in advance of their desired entrance date and will complete all required application procedures thereafter in a timely manner, including submission of recommendation and a satisfactory interview.

This program offers benefits to students (six years instead of seven from high school to doctorate). The University of Missouri courses are listed helow:

General Education Requirements

Humanities:		9	
Select from General Education List			
Social Sciences (One course must be a Psychology):			
Select from General Education List of courses meeting Social			
Science Gen. Ed requirements.			
American History	& Government	3	
Choose			
Select one of the	following:	3	
MATH 1310	Elementary Statistical Methods		
or MATH 1320	Applied Statistics I		
or BIOL 4122	Biometry		
COMM 1040	Introduction To Public Speaking		
ENGL 1100	First-Year Writing		
ENGL 3160	Writing In The Sciences		
Major			
Foundation cours	es:		
BIOL 1821	Introductory Biology: Organisms And The Environment	5	
BIOL 1831	Introductory Biology: From Molecules To Organisms	5	
BIOL 2012	Genetics	3	
BIOL 2482	Microbiology	3	
BIOL 3622	Cell Biology	3	
BIOL 3302	Introduction To Evolution	3	
BIOL/CHEM 4712	2 Biochemistry	3	
BIOL 4889	Senior Seminar	2	
PHYSICS 1011	Basic Physics 1	4	
PHYSICS 1012	Basic Physics II	4	
CHEM 1111	Introductory Chemistry I	5	
CHEM 1121	Introductory Chemistry II	5	
CHEM 2612	Organic Chemistry I	3	
CHEM 2622	Organic Chemistry II	3	
CHEM 2633	Organic Chemistry Laboratory	2	
PHIL 2256	Bioethics	3	
MATH 1030	College Algebra	3	

The remaining 30 hours to be taken at Logan include:

Trigonometry

Basic Calculus

Analytic Geometry And Calculus I

- Transfer Credits (34):
- Anatomy I / Lab (6)

MATH 1035

MATH 1100

Total Hours

or MATH 1800

Choose

- Spinal Anatomy / Lab (5)
- Biochemistry I / Lab (4)
- Histology / Cell Biology / Lab (5)
- Anatomy II / Lab (6)
- Neuroanatomy / Lab (5)
- Biochemistry II (4)
- Physiology I (4)

· Microbiology / Lab (4)

Graduate Studies

The graduate program offers both Masters and Ph.D. degrees, as well as Graduate Certificates in Biotechnology and Tropical Biology and Conservation.

Advisors

All graduate students will have a faculty advisor. In the event that a student's interest changes or the faculty advisor feels the student's direction no longer falls with his/her area of expertise, the student and advisor should discuss whether a change of advisor is warranted. The graduate director must be notified in writing of any change in advisors. If a student or advisor is uncomfortable discussing the issue directly with the other, he/she is encouraged to meet with the director of the graduate program.

Graduate Assistantships

Stipends for teaching and research assistantships are awarded on a competitive basis to qualified graduate students in masters or PhD. Programs. Tuition fees are waived for graduate assistants. Applications for assistantships must be sent to the Director of Graduate Studies in the Department of Biology and received by December 15.

Master of Science in Biology

The Department of Biology offers two ways of achieving the Master of Science degree. The first is a non-thesis option suitable for those who may already have extensive research experience, for educators who seek to upgrade their academic skills but do not require research experience, or for those who need to broaden their biological background. The second is a traditional apprenticeship in research leading to a written thesis. All students admitted to the graduate program are considered to be in the non-thesis program unless they have been accepted into an individual faculty lab. Starting with a common core, both the non-thesis or thesis option may be developed into a final degree program in either of two broad areas in biology:

1. Cell and Molecular Biology or

2

3-5

2. Ecology, Evolution, and Systematics.

Non-thesis students may also elect to take courses in both areas.

M.S. Admission Requirements

Applicants to the M.S. program must submit completed application and personal data forms, three letters of recommendation from undergraduate faculty or work supervisors, and transcripts of all previous work. Submission of Graduate Record Examination scores, although not required, is highly recommended and will be helpful for positive consideration of admittance. Admission as a regular graduate student requires graduation from an accredited college with a minimum grade point average overall and in biology courses of 3.0 (where A = 4.0).

All foreign applicants, except those from countries where English is the primary language, must take the TOEFL. Ordinarily, a score of 213 on the computer-based exam (550 on the paper-based exam) or better is required.

In addition to the Graduate School admission requirements, applicants should have completed advanced undergraduate biology courses including genetics, biochemistry, and evolution. Courses in organic

chemistry, college physics, and calculus are also expected, and a course in statistics is highly recommended.

Students admitted to the degree program who have not met some of the prerequisites may be asked to pass appropriate courses before graduating. These courses will be agreed upon by the student's advisor and the student during the first semester of enrollment. In particular, undergraduate deficiencies in genetics and either biochemistry or evolution shall be made up by taking the appropriate course(s). Three credits of BIOL 4920 (p. 94) Selected Topics can be given to graduate students for BIOL 2012 (p. 94) (Genetics) or BIOL 3302 (p. 94) (Evolution), if they receive a grade of B or better for all undergraduate course work and complete a graduate level paper assigned by the instructor. Instructor consent is required.

General Requirements

All students are required to take at least 4 but not more than 8 hours of BIOL 6889 (p. 94), Graduate Seminar. Thesis students are required to take BIOL 5179 (p. 94), Ethical Issues in Biology. Students are expected to maintain a GPA of 3.0 or better. Students may choose to specialize in either Cellular and Molecular Biology (CMB) emphasis area or the Ecology, Evolution and Systematics (EES) emphasis area, and appropriate courses in each area will be recommended by the student's advisor.

Non-thesis Option

Including the general requirement, students must take at least 30 graduate credit hours, of which at least half must be at the 5000 or 6000 level. No more than 5 hours of BIOL 6905 (p. 94), Graduate Research, may be counted toward the degree.

Thesis Option

The student and adviser work together to develop a research plan. The thesis proposal must be approved by the student's adviser and advisory committee before the student enrolls in more than 4 credit hours of BIOL 6905 (p. 94), Graduate Research, and before the student has completed 15 credit hours in the master's program. No more than 13 hours of BIOL 6905 (p. 94), Graduate Research, may be counted toward 30 hours of the degree. A thesis embodying results of original research shall be submitted to and approved by the Department of Biology and the Graduate School. This approval requires both a written thesis and oral presentation and defense.

Doctor of Philosophy in Biology

The doctoral program emphasizes empirical and theoretical approaches to biological research. Students are required to integrate basic skills in biology with focal studies in an emphasis area. The program is designed to provide research experience and training appropriate for advanced positions in academic research and teaching, government and public agencies, and industry.

Ph.D. Admission Requirements

Applicants to the Ph.D. program must submit a formal application to the Graduate Admissions Office. In addition, the applicant should arrange to have sent: three letters of recommendation from faculty members at previously attended colleges or universities, GRE scores (Verbal, Quantitative, and Analytical), and transcripts of all postsecondary academic work. Admission to the Ph.D. program normally requires a minimum grade point average overall and in biology courses of 3.0 (where A=4.0). Applicants from countries where English is not a primary language are required to take the TOEFL examination. Scores must be submitted

before admission can be decided. Ordinarily, a score of 550 or better is required.

Applicants should have a bachelor's or M.S. degree from an accredited United States college or university or evidence of equivalent training at an accredited institution outside the United States. They should have the appropriate background for graduate work in biology, including courses in genetics, biochemistry, and evolution. Courses in organic chemistry, college physics, and calculus are expected. A course in statistics is recommended. Students admitted to the Ph.D. program who have not met all the prerequisites may be required to make up deficiencies before admission to candidacy. The deficiencies will be decided during orientation meetings prior to the start of the second semester. Three credits of BIOL 4920 (p. 94) Selected Topics can be given to graduate students for BIOL 2012 (p. 94) or BIOL 3302 (p. 94) if they receive a grade of B or better for all undergraduate course work and complete a graduate-level paper assigned by the instructor. Instructor consent is required.

Ph.D. Degree Requirements

In addition to the general requirements of the Graduate School, the basic requirements for the Ph.D. degree in Biology include 60 graduate credit hours. At least 30 of the 60 hours must be taken at the 5000 or 6000 level. With the explicit consent of the advisory committee, students may take for graduate credit up to 3 credit hours of 3000 level courses in allied departments. All students are required to take BIOL 5179 (p. 94), Ethical Issues in Biology. Courses in biology at the 3000 level and below are not available for graduate credit. At least 31 of the 60 hours must be taken while in residence at the University of Missouri-St. Louis. Graduate credit for course work transferred from another program is subject to approval by the graduate committee and by the Graduate School. Graduate courses taken elsewhere will be considered for transfer credit during orientation meetings conducted prior to the start of the second semester of enrollment.

The requirements for all Ph.D. students include:

- 30 hours of course work, including:
 - At least 6 credits of BIOL 6889 (p. 94), Graduate Seminar
 - One credit of BIOL 5179 (p. 94), Ethics in Biology (to be taken the first semester)
 - BIOL 4122 (p. 94), Biometry, or an equivalent undergraduate course in statistics. This requirement is normally waived if the student has already taken an undergraduate course in statistics and received a B- or higher. Bioinformatics can also be substituted for BIOL 4122 (p. 94) Biometry.

The maximum number of credit hours that may be applied toward the 60-hour requirement is limited as stated below:

- BIOL 6889 (p. 94), Graduate Seminar: 10 hours
- BIOL 6905 (p. 94), Graduate Research: 30 hours

A combination of 6 total credit hours of the following:

- BIOL 5059 (p. 94), Topics in Ecology, Evolution, and Systematics
- BIOL 5069 (p. 94), Topics in Cellular and Molecular Biology
- BIOL 5079 (p. 94), Topics in Floristic Taxonomy

Emphasis area requirements

Each Ph.D. student is associated either with the Cellular and Molecular Biology (CMB) emphasis area, or the Ecology, Evolution and Systematics (EES) emphasis area. Each of these areas has its own course

requirements in addition to the University-wide and department-wide requirements listed above.

Ecology, Evolution and Systematics

	IOL 5312 (p. 4)	Theory Of Systematics	3
	IOL 6182 (p. 4)	Advanced Population Biology	3
	IOL 5192 (p. 4)	Community Ecology	3
C	ellular and Mol	ecular Biology	
S	elect three of the	e following: 1	9-10
	BIOL 6602 (p. 94)	Advanced Molecular Biology	
	BIOL 6612 (p. 94)	Advanced Molecular Genetics Of Bacteria	
	BIOL 6615 (p. 94)	Advanced Biotechnology Laboratory II	
	BIOL 6622 (p. 94)	Advanced Cellular Basis of Disease	
	BIOL 6632 (p. 94)	Advanced Nucleic Acid Structure And Function	
	BIOL 6642 (p.	Advanced Plant Biology And Biotechnology	

1 An equivalent graduate level course at another university may be substituted for one of the required courses, if approved by the Graduate Director

Maintenance of Status

94)

All students are expected to maintain a GPA of 3.0 or better. Students will normally meet formally with their thesis committee, or if that has not been formed, with their advisor each year to maintain their status in the program.

First-Year Experience

Ph.D. students in the Cellular and Molecular Biology emphasis area typically rotate through three different labs during their first semester before choosing/being accepted by a particular dissertation advisor. Ph.D. students in the Ecology Evolution and Systematics emphasis area typically are accepted by a particular dissertation advisor as part of the Ph.D. program application/acceptance process. All students are expected to become involved in research by the spring semester of their first year.

Qualifying Examination

All students must pass a qualifying examination consisting of a written and oral component. Students beginning studies in the fall semester will normally take the qualifying examination at the end of their fourth semester of full-time study. Doctoral students who have earned an M.S. degree previously are encouraged to take the examination in their first year.

The examination for Ecology, Evolution and Systematics students evaluates knowledge of fundamental principles presented in formal courses and in papers of special importance in the field. The written exam will be given in April at the end of the spring semester, and the oral portion immediately afterwards.

The Qualifying Examination for Cellular and Molecular students is composed of a written portion in which the student prepares a formal research proposal on a topic different from that of her/his doctoral

dissertation research, and an oral portion during which the student defends the research proposal as well as his/her knowledge of the fundamental concepts of molecular biology, cell biology, and biochemistry.

Admission to Candidacy

To be admitted to candidacy, students must satisfy the requirements of the Graduate School, which includes passing all qualifying examinations and completing all required course work.

Dissertation Proposal

All students must defend orally a written dissertation proposal to their dissertation committee. The approved proposal must be submitted to the director of graduate studies in biology. Doctoral students may not enroll in more than 4 credits of graduate research (BIOL 6905 (p. 94)) before they have received approval for their dissertation proposal. The proposal is to be successfully defended by the end of the sixth semester.

Dissertation

A dissertation embodying the results of original research shall be submitted to and approved by the Department of Biology and the Graduate School. The general regulations of the Graduate School concerning the preparation of the dissertation must be met. These rules include a public oral defense of the written dissertation. Dissertations are to be presented in a style appropriate for one or more publications in scientific journals.

Teaching

At least one semester of supervised teaching is required of all doctoral students.

Graduate Certificate in Biotechnology

The Graduate Certificate in Biotechnology is offered for students with a bachelor's degree who wish to obtain advanced level training in those fields of biology that pertain to biotechnology without necessarily earning a master's degree. Students who enter this program may have a variety of interests, including biochemistry, microbiology, molecular biology, cell biology, developmental biology, or molecular evolution.

Admission

Students who wish to earn a Graduate Certificate in Biotechnology must apply to the Biotechnology Certificate Program for admission to the program. Students must be enrolled in the graduate program at the University of Missouri-St. Louis either as non-degree students or as master's students.

Students who wish to obtain a Master's degree with a Biotechnology Certificate must be accepted into the Master's degree program in Biology as well as into the Biotechnology Certificate Program. Students who apply to the certificate program as non-degree students will earn only the certificate.

Students must have at least a 3.0 GPA for undergraduate course work to be accepted into the program. The minimum course prerequisites for admission to the program are undergraduate courses in genetics, cell biology, and biochemistry.

Requirements

Students must maintain a minimum GPA of 3.0 to remain in the certificate program. The certificate is awarded after completion of the courses listed below. Students enrolled in the Master's program may simultaneously earn

a graduate degree and count the appropriate courses from the list below toward the Biotechnology Certificate.

The biotechnology certificate requires 18 credit hours of course work:

BIC 94)	DL 6615 (p.	Advanced Biotechnology Laboratory II	4
BIC 94)	DL 6602 (p.	Advanced Molecular Biology (If both Group II courses are taken, one may be used as elective credit)	3
or E 94)	BIOL 6612 (p.	Advanced Molecular Genetics Of Bacteria	
Ele	ctives		
Sel	ect 11 credits f	rom the following:	11
E	Biology		
	BIOL 4712 (p. 94)	Biochemistry	
	BIOL 4842 (p. 94)	Immunobiology	
	BIOL 5069 (p. 94)	Topics In Cellular And Molecular Biology	
	BIOL 6550 (p. 94)	Advanced Bacterial Pathogenesis	
	BIOL 6612 (p. 94)	Advanced Molecular Genetics Of Bacteria	
	BIOL 6622 (p. 94)	Advanced Cellular Basis of Disease	
	BIOL 6632 (p. 94)	Advanced Nucleic Acid Structure And Function	
	BIOL 6642 (p. 94)	Advanced Plant Biology And Biotechnology	
	BIOL 6652 (p. 94)	Advanced Virology	
	BIOL 6699 (p. 94)	Graduate Internship In Biotechnology	
	BIOL 6889 (p. 94)	Graduate Seminar	
	BIOL 6915 (p. 94)	Graduate Research Practicum	
	BIOL 6920 (p. 94)	Topics In Biology	
(Chemistry		
	DHEM 4722 p. 94)	Advanced Biochemistry	
	CHEM 4733 p. 94)	Biochemistry Laboratory	
	DHEM 4772 p. 94)	Physical Biochemistry	
Tota	al Hours		18

Graduate Certificate in Tropical Biology and Conservation

The Graduate Certificate in Tropical Biology and Conservation is intended for students who wish to pursue a career in conservation biology or ecology from either a research or practical standpoint. Cooperating institutions include the Missouri Botanical Garden, St. Louis Zoo, Center

for International Studies at UMSL, and the Departments of Economics, History, Political Science, and Social Work.

Admission

Student enrolled in UMSL who intend to receive a Graduate Certificate in Tropical Biology and Conservation must complete an application form available from the Graduate School. Student not enrolled in a course of graduate studies at UMSL must apply simultaneously to the University's Graduate Admissions office. Students who have a baccalaureate degree or are enrolled in graduate work elsewhere may apply for admission to the certificate program without regular admission to the graduate program. Due to limited space, admission will be on a competitive basis based on student motivation and academic qualifications. The minimum admissions requirements include: (1) at least a 3.0 GPA for undergraduate course work or a 3.2 GPA for 12 credit hours of graduate course work; and (2) current enrollment in the graduate program in biology at UMSL having satisfied the prerequisites of the certificate; or completion of a baccalaureate degree and having satisfied the prerequisites of the certificate program. The minimum prerequisites are undergraduate courses in ecology, evolution and genetics.

Requirements

The certificate is awarded after completion of 18 credit hours of core courses and electives with a minimum of 12 credits at the 5000 or 6000 level. Up to 3 credits may be taken at the 2000 - 3000 level upon permission of the Graduate Committee. Electives must include a minimum of 3 credits outside biology with a maximum of 7 outside biology. A maximum of 3 credits may be taken at institutions other than UMSL. Students may simultaneously earn a graduate degree and count credits earned in their degree program toward the certificate when appropriate.

Required Core Courses

BIOL 6250 (p. 94)	Public Policy Of Conservation And Sustainable Development	3
or POL SCI 6452 (p. 94)	Public Policy Of Conservation And Sustainable Development	
BIOL 6299 (p. 94)	Internship In Conservation Biology ¹	1-4
BIOL 6222 (p. 94)	Advanced Tropical Ecology And Conservation	3
or BIOL 6270 (p. 94)	Advanced Global Climate Change	

94)

94)				
Electives				
Biology				
BIOL 4182 (p. 94)	Population Biology			
BIOL 4402 (p. 94)	Ornithology			
BIOL 4422 (p. 94)	Entomology			
BIOL 4501 (p. 94)	Flowering Plant Families: Phylogeny And Diversification			
BIOL 5123 (p. 94)	Advanced Tropical Resource Ecology Field Studies			
BIOL 5192 (p. 94)	Community Ecology			
BIOL 6102 (p.	Advanced Topics In Behavioral Ecology			

	BIOL 6112 (p. 94)	Advanced Evolution Of Animal Sociality
	BIOL 6182 (p. 94)	Advanced Population Biology
	BIOL 6192 (p. 94)	Applications Of Geographic Information Systems
	BIOL 6222 (p. 94)	Advanced Tropical Ecology And Conservation
	BIOL 6270 (p. 94)	Advanced Global Climate Change
	BIOL 6889 (p. 94)	Graduate Seminar
	Economics	
	ECON 3300 (p. 94)	International Economic Analysis
	ECON 4550 (p. 94)	Natural Resource Economics
	History	
	HIST 3000 (p. 94)	Selected Topics In History
	HIST 6114 (p. 94)	Readings In Latin American History
	HIST 6115	
	Politial Science	e
	POL SCI 3480 (p. 94)	Environmental Politics
	POL SCI 3595 (p. 94)	Studies In Comparative Politics
	POL SCI 3830 (p. 94)	International Political Economy
	POL SCI 3850 (p. 94)	International Organizations And Global Problem- Solving
	POL SCI 3890 (p. 94)	Studies In International Relations
	POL SCI 4510 (p. 94)	Comparative Public Policy And Administration
	POL SCI 4850 (p. 94)	International Law
	POL SCI 6448 (p. 94)	Political Economy And Public Policy
	POL SCI 6480 (p. 94)	Proseminar In International Relations
	Social Work	

May be replaced with a biology elective for individuals with applied conservation or environmental agency experience upon consent of the Graduate Committee.

SOC WK 4950 Seminar In Social Work Issues

(p. 94)

Courses

BIOL 1010 Introduction to Student Biological Research: 1-2 semester hours

Prerequisites: Permission of Instructor. An opportunity for high school students to develop individual research projects under faculty mentorship. Includes interdisciplinary lectures, demonstrations, seminars, and project guidance. Evaluation will be based on written and oral presentation of the research project and student portfolio.

BIOL 1012 General Biology: 3 semester hours

Emphasis on fundamental principles of biology. BIOL 1012 can be applied toward fulfillment of the general education requirement in science. BIOL 1012 does not satisfy the prerequisite requirements in other courses in biology at the 2000 level or above. Students who plan to pursue a career in medicine or one of the medical-oriented professions should enroll in BIOL 1831 rather than BIOL 1012.

BIOL 1013 General Biology Laboratory: 2 semester hours

Prerequisite: BIOL 1013 (may be taken concurrently). Laboratory course to accompany BIOL 1013. BIOL 1013 can be used to fulfill the general education requirements in a laboratory science. BIOL 1013 does not meet the prerequisite requirements for other courses in biology. Three and one-half hours of laboratory per week.

BIOL 1102 Human Biology: 3 semester hours

Lectures and readings concerned with the reproduction, development, genetics, functional anatomy, behavior, ecology, and evolution of the human species. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 1131 Human Physiology And Anatomy I: 4 semester hours

Prerequisite: BIOL 1012 or its equivalent. The basic aspects of the structure of the healthy human body and how it functions. Special emphasis is on how the human body adapts itself to its environment and how changes affect physiological activities. Three hours lecture and two hours laboratory per week.

BIOL 1141 Human Physiology And Anatomy II: 4 semester hoursPrerequisite: BIOL 1131. A continuation of BIOL 1131. A study of the basic aspects of human physiology and and anatomy. Three hours lecture and two hours laboratory per week.

BIOL 1162 General Microbiology: 3 semester hours

Prerequisite: BIOL 1012 or its equivalent. A survey of microbiology structure, genetics, and physiology. Special emphasis will be placed on the transmission and control of such organisms as it relates to the maintenance of human health. Three hours of lecture per week.

BIOL 1202 Environmental Biology: 3 semester hours

An examination of the biological basis of current environmental problems, with emphasis upon resources, energy, pollution and conservation. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 1821 Introductory Biology: Organisms And The Environment: 5 semester hours

Prerequisites: A minimum of high school chemistry, ENGL 1100 or equivalent (may be taken concurrently), and placement into college algebra or higher. Required for students intending to major in biology or take specified biology courses at the 2000 level or above. This course presents an introduction to some of the principles of biology and scientific methodology applied to the organism and supraorganism levels of biology. Topics to be covered include: ecology, evolution, diversity, and population biology. Three hours of lecture and one hour of discussion per week.

BIOL 1831 Introductory Biology: From Molecules To Organisms: 5 semester hours

Prerequisites: A minimum of high school chemistry and MATH 1030; ENGL 1100 or equivalent (may be taken concurrently). Required for students intending to major in biology or take specified biology courses at the 2000 level or above. This course presents and introduction to some of the principles of biology and scientific methodology applied to the molecular/ cellular through organ system levels of organization. Topics include: cell structure, metabolism, reproduction, heredity and major physiological processes regulated by organ systems. Three hours of lecture, three and one half hours of lab, and one hour of discussion per week.

BIOL 1999 Evolution for Everyone: 3 semester hours

Evolution for Everyone explores the development of our current understanding by examining modern and ancient controversies, and by studying major processes by which change occurs. Lectures will present overviews and many examples on topics in history, mechanisms, and outcome of evolutionary change, and students will participate in classroom and online discussions based on readings, computer exercises, and data collection and analysis. Course may not be applied towards major in Biology. Not eligible for credit with BIOL 3302 (Introduction to Evolution) required for Biology majors.

BIOL 2012 Genetics: 3 semester hours

Prerequisites: BIOL 1831 (majors must also take BIOL 1821) MATH 1030, and CHEM 1111 or (CHEM 1081 plus CHEM 1091). Fundamental principles of inheritance, including classical genetic theory as well as recent advances in the molecular basis of heredity. Three hours of lecture per week. Fulfills Science/Math requirement.

BIOL 2013 Genetics Laboratory: 2 semester hours

Prerequsites: Concurrent registration in BIOL 2012, or by permission of instructor. Laboratory to accompany BIOL 2012. Three and one-half hours of organized laboratory time per week. Students may need to return to the laboratory at unscheduled times to complete some exercises.

BIOL 2102 General Ecology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. An examination of the relationships between living organisms and their environment. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 2103 General Ecology Laboratory: 2 semester hours

Prerequisites: BIOL 2102 required (may be taken concurrently);a genderal statistics course strongly recommended. An analysis of environmental factors influencing the abundance and distribution of living organisms. Some classes will be held at field sites in and around St. Louis. Three and one-half hours of laboratory or field work per week.

BIOL 2402 Vertebrate Anatomy, Evolution and Ecology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. Development, structure, function, interrelationships, and zoogeography of vertebrate animals with particular attention to phylogenetic aspects. Three hours of lecture per week. Fulfills Science/Math requirement.

BIOL 2403 Vertebrate Anatomy, Evolution and Ecology Laboratory: 2 semester hours

Prerequisite: BIOL 2402 (may be taken concurrently). Laboratory to accompany BIOL 2402. Morphological analysis and systematic survey of major vertebrate groups. Overview of the vertebrate life forms and their adaptations to habitats and resources. Three and one-half hours of laboratory per week.

BIOL 2443 Invertebrate Biology Laboratory: 2 semester hours

Prerequisite: BIOL 2442 (may be taken concurrently). Analysis of invertebrate structure and function with emphasis on the feeding and locomotory behavior of live animals. Students will collect and study animals in habitats ranging from UMSL's Bugg Lake to the Gulf of Mexico. The course meets three and one half hours per week and includes a one-week field trip to a marine laboratory in Florida. Students will be responsible for expenses they incur.

BIOL 2482 Microbiology: 3 semester hours

Prerequsites: BIOL 1831 (majors must also take BIOL 1821), MATH 1030, and CHEM 1111 (or CHEM 1082 plus CHEM 1091). Study of microorganisms, their metabolism, genetics, and their interaction with other forms of life. Three hours of lecture per week.

BIOL 2483 Microbiology Laboratory: 2 semester hours

Prerequisite: BIOL 2482 (may be taken concurrently). Experimental studies and procedures of microbiological techniques. Three and one-half hours of organized laboratory time per week. Students will need to return to the laboratory at unscheduled times to complete some exercises.

BIOL 2501 Biology Of Plants: 5 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. A general discussion of the plant groups from algae through angiosperms. Plant morphology, physiology, reproduction and ecology will be discussed in lecture (three hours per week). The laboratory (three and one half hours per week) involves examination of representatives of the plant kingdom and experimentation in plant physiology and genetics. Fulfills both a lecture and laboratory requirement.

BIOL 3001 Experiential Practicum in Biosciences: 1 semester hour

Prerequisites: Consent of Biology Curriculum Committee. Credit for offcampus bioscience projects providing extraordinary student experience and service to a community in need.

BIOL 3102 Animal Behavior: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. The study of invertebrate and vertebrate behavior, including neurophysiological, hormonal, developmental, genetic, ecological and evolutionary aspects of behavior; behavior interactions within and between populations. Three hours of lecture per week.

BIOL 3103 Animal Behavior Laboratory: 2 semester hours

Prerequisites: BIOL 3102 (may be taken concurrently) and any college level course in introductory statistics (may not be taken concurrently). Observational and experimental studies of animal behavior in the field and laboratory. Three and one-half hours of formal laboratory time per week, but additional time may be required for independent projects. Some activities involve field trips or trips to the St. Louis Zoo.

BIOL 3123 Tropical Resource Ecology Field Studies: 2 semester

Prerequisites: BIOL 3122 (may be taken concurrently). The field component to the lecture and seminar course. Examines the patterns of use and exploitation of resources in the topics by humans in the context of the theories of behavioral ecology. Two weeks of intensive field research and lectures in Guyana, South America during the second and third weeks of Summer Session I (trip costs to be borne by the student). Students may not receive credit for both BIOL 3123 and BIOL 5123. Offered in odd numbered years.

BIOL 3202 Conservation Biology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831. Introduction to the principles and theories of conservation biology. Course topics include biodiversity, extinctions, population modeling, habitat fragmentation, conservation area management, restoration ecology, and social science elements of conservation strategies. Class sessions will include lectures, discussions, and simulation exercises. Three hours of lecture per week.

BIOL 3203 Conservation Biology Laboratory: 2 semester hours

Prerequisite: BIOL 3202 (recommended to be taken concurrently). Laboratory to accompany BIOL 3202. Laboratory will include computer simulations of conservation problems using existing software, 2-3 field trips to local conservation projects, and field interviews with governmental and nongovernmental agencies. Three and one-half hours of laboratory per week.

BIOL 3302 Introduction To Evolution: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831, and MATH 1030; BIOL 2012 strongly recommended. Introduction to the theory, events, and processes of organic evolution.

BIOL 3622 Cell Biology: 3 semester hours

Prerequisites: BIOL 1831, BIOL 2012, CHEM 2612, and MATH 1030.Examination of the organization and basic processes of cells including tissues, organelles, glycolysis, respiration, photosynthesis, trafficking, cytoskeleton, signal transduction, and cell division.

BIOL 3699 Undergraduate Internship In Biotechnology: 1-4 semester hours

Prerequisites: BIOL 1821, BIOL 1831, and CHEM 1111 and CHEM 1121 and consent of instructor. Concurrent enrollment in CHEM 2612 or higher is strongly encouraged. A 2.5 GPA and enrollment in the undergraduate Biotechnology Certificate Program is required. Internship will consist of a period of observation, experimentation and on-the-job training in a biotechnology laboratory. The laboratory may be industrial or academic. Credit will be determined by the number of hours a student works each week and in consultation between the intern's supervisor and instructor. Internship assignments will be commensurate with the education and experience of the student. Two credits may be used to fulfill the lab requirement.

BIOL 3802 Vertebrate Physiology: 3 semester hours

Prerequisites: BIOL 1821 and BIOL 1831 and CHEM 1111 or CHEM 1081 plus CHEM 1091). Basic functional aspects of organ systems in relation to the physiochemical properties of protoplasm. Three hours lecture per week. Fulfills Science/Math requirement.

BIOL 3803 Vertebrate Physiology Lab: 2 semester hours

Prerequisite: BIOL 3802 (may be taken concurrently). Instrumental and experimental studies in physiology. Three and one-half hours laboratory per week.

BIOL 4102 Behavioral Ecology: 3 semester hours

Prerequisite: BIOL 3102 (BIOL 2102 recommended). Topics in animal behavior with an emphasis on ecological and evolutionary aspects of behavior. Topics will include the role of behavior in population regulation, habitat selection and spacing, feeding and predator-prey interactions, sexual selection, evolution of mating systems, and new approaches to animal communication. Three hours of lecture per week. Students may not receive credit for both BIOL 4102 and BIOL 6102.

BIOL 4112 Evolution Of Animal Sociality: 3 semester hours

Prerequisites: BIOL 3102, BIOL 2102, or BIOL 4182 recommended, or consent of instructor. The evolution of sociality, including a critical examination of sociobiological theories and alternative approaches to social evolution. Survey of social organization and behavior in anthropods, with an emphasis on social insects, & vertebrates Two hours of lecture, one hour of discussion per week. Students may not receive credit for both BIOL 4112 and BIOL 6112.

BIOL 4122 Biometry: 3 semester hours

Prerequisites: MATH 1030 and a minimum of 15 hours in biology. Reviews descriptive, analytical, and experimental methods useful for the statistical study of biological phenomena. Students will develop the skills needed to better appreciate and evaluate the published literature, as well as the ability to design their own research programs. Topics include: the collection and summarization of biological observations; development, design, and testing of hypothesis; analysis and presentation of data. Three hours of lecture per week. Fulfills the statistics requirement for the B.A. or B.S. degree in biology.

BIOL 4182 Population Biology: 3 semester hours

Prerequisite: BIOL 2102 and BIOL 2012 (BIOL 3302 recommended) Introduces concepts and mathematical models of population ecology and population genetics. By integrating the ecology and genetics of populations, the course goal is to understand the processes that contribute to microevolution of populations. Topics include: demography, metapopulation biology, natural selection, migration, gene flow, and genetic drift. Three hours of lecture per week. Students may not receive credit for both BIOL 4182 and BIOL 6182.

BIOL 4192 Applications of Geographic Information Systems: 5 semester hours

Prerequisites: BIOL 2102, BIOL 4122 or equivalent, and consent of instructor. Geographic Information Systems (GIS) are sophisticated computer-based systems for analysis, capture, presentation, and maintenance of geographically referenced data. This course provides a foundation in using GIS for spatial analysis. Although biological examples are primarily used, examples from a range of disciplines are employed to emphasize the use of GIS as a tool to support analysis and decision-making. Students will have hands-on use of GIS software during each session. An independent research project applying the spatial analysis tools learned in GIS to biological research will be required. Five hours of combined lecture and computer operations, plus 2-3 hours of open lab per week. Fulfills both a lecture and a laboratory requirement. Students may not receive credit for both BIOL 4192 and BIOL 6192.

Prerequisite: BIOL 2102, BIOL 4182, BIOL 5192, or equivalent. This Course Will Cover Research Areas In Tropical Population, Community And Ecosystem Ecology, With Emphais On Inter-Species And Environment-Organism Interactions, Population Control Factors, And Genetic Structure Of Populations. Topics Include The Current Status And Causes Of Tropical Habitat Destruction, Ongoing Attempts To Manage Those Habitats, And Development Of Strategies Leading To Sustained

Use Of Non-Renewable Resources. Three Hours Of Lecture Per Week.

Students May Not Receive Credit For Both BIOL 4222 And BIOL 6222.

BIOL 4222 Tropical Ecology And Conservation: 3 semester hours

BIOL 4245 Field Biology: 3 semester hours

Prerequisite: Three biology courses and consent of instructor. Intensive study of the flora and fauna of selected natural areas of North America, including an extended field trip. Details of the field trip and course schedule will be posted in the Biology department preceding registration for the term in which the course will be offered. Students will be required to pay costs of travel and of the field trip. This is a laboratory course appropriate for advanced undergraduates and non-thesis Master of Science students. Students may not receive credit for both BIOL 4245 and BIOL 6245.

BIOL 4270 Global Climate Change: 3 semester hours

Prerequisites: BIOL 3302 or consent of instructor. Topics included are fundamental physical, meteorological, and biological circumstances of global climate change, as well as predictions of its future effects on biological diversity, including humans, and how those estimates are made. In addition, basic environmental economics and politics of climate change at local and global levels will be included. The course will be taught as a series of lectures and discussions led by guest experts in each of the subdisciplines covered. Students may not receive credit for both BIOL 4270 and BIOL 6270.

BIOL 4299 Practicum In Conservation: 2 semester hours

Prerequisites: Consent of instructor and BIOL 3643, Conservation Biology. This course is generally restricted to students officially enrolled in the Certificate Program in Conservation Biology. The course provides practical experience with conservation or environmental agencies. Specific placement will be selected according to student's interests and career goals as well as availability of agency openings. Course requirements include practical experience and final report on practicum experience.

BIOL 4308 Transmission Electron Microscopy Hours: 3 semester hours

Same as PHYSICS 4308 Course introduces students to transmission electron microscopy techniques and their applications to solving challenging materials and biological problems. Course includes fundamental principles (electron optics), electron-specimen interactions, diffraction of electrons, image formation and interpretation, image processing and analysis, energy dispersive X-ray spectroscopy, electron energy loss spectroscopy, and sample preparation of both biological and non-biological systems. Laboratory experiments will provide students "hands-on" experience with TEM operations and problem solving skills. Successful completion of the course enables students to independently operate transmission electron microscopes to perform basic research experiments. This course is ideal for students interested in ultrastructural or nanocharacterization of biological or materials systems. Two classroom hours and two hours of laboratory per week.

BIOL 4402 Ornithology: 3 semester hours

Prerequisites: BIOL 2102 and junior standing. Introduction to avian biology and ecology. Material to be covered will include basic adaptations of anatomy, physiology, and behavior of birds. There will be a strong emphasis on avian ecology and conservation. Specific topics will include flight, reproductive behavior, migration, foraging behavior, community structure, and current conservation concerns. The diversity of birds will be emphasized through comparisons between temperate and tropical regions. Three hours of lecture per week.

BIOL 4403 Ornithology Laboratory: 2 semester hours

Prerequisites: BIOL 4402 (may be taken concurrently), or consent of instructor. This course will introduce students to methods of identifying and studying birds. Labs will almost enirely be comprised of field trips to local areas and will emphasize diversity of birds, adaptions shown by different groups, and means of identification, particularly of birds found in Missouri. Field projects will focus on techniques for censusing birds, sampling foraging behavior, and studying habitat selection. Indoor periods will cover internal and external anatomy of birds. Slides and field trips to the St Louis Zoo will be used to survey the diversity of birds worldwide. Three and one-half hours of laboratory per week. Longer (e.g., Saturday) field trips will be made when appropriate.

BIOL 4422 Entomology: 3 semester hours

Prerequisites: BIOL 1820 and BIOL 1821: 9 additional hours of biology and upper-division standing. Development, structure, function, behavior and ecology of insects, including a systematic survey of the orders of Insecta. Three hours of lecture per week.

BIOL 4423 Entomology Laboratory: 2 semester hours

Prerequisites: BIOL 4442 (may be taken concurrently). Laboratory to accompany BIOL 4422. Studies of the morphology, physiology, and behavior of insects to give a sampling of biological studies of the class Insecta. Formation of a collection of insects, comprising a systematic survey of orders and principal families, will be an intregal part of the course and will require additional time beyond the official lab hours. Three and one-half hours of lab per week.

BIOL 4442 Developmental Biology: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 3622. A study of the basic principles that shape the embryonic and post-embryonic development of animals with an emphasis on the underlying cellular and molecular mechanisms. Specific topics include fertilization, determination of cell fate and differentiation, cell migration, establishment of the body plan, formation of selected organs and organ systems, stem cells, and limb regeneration. Environmental influences on development and the impact of developmental biology on modern medicine are also discussed. Three hours of lecture/discussion per week. Students may not receive credit for both BIOL 4442 and BIOL 6442.

BIOL 4501 Flowering Plant Families: Phylogeny And Diversification: 5 semester hours

Prerequisites: BIOL1821, BIOL 1831 and junior standing or consent of instructor. Focusing on the flowering plant families of North America, the aim of the course is to give an understanding of their phylogeny and diversification. Student will also gain an understanding of plant morphology and anatomy, a basis for further developing their knowledge of plants. Three hours of lecture and three to four hours of laboratory per week. Students may need to return to the laboratory at unscheduled times.

BIOL 4550 Bacterial Pathogenesis: 3 semester hours

Prerequistes: BIOL 2012 and BIOL 2482 Examination of the strategies bacterial pathogens use to infect animals. Topics include host immune responses to infection, bacterial virulence factors, regulation of bacterial virulence, and the cellular and molecular approaches used to study hostparasite interactions. Three hours of lecture per week. Students may not receive credit for both BIOL 4550 and BIOL 6550.

BIOL 4602 Molecular Biology: 3 semester hours

Prerequisites: BIOL 2012 and CHEM 2612. A study of the principles of molecular biology, with emphasis on understanding the genetic regulation of DNA, RNA, and protein synthesis and function in eukaryotic cells. Three hours of lecture per week. Students may not receive credit for BIOL 4602 and either BIOL 6602, or any course previously called Gene Expression in Eukaryotes or Advanced Gene Expression in Eukaryotes.

BIOL 4612 Molecular Genetics Of Bacteria: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. A study of the molecular biology of gene replication, transfer, and expression in bacterial cells. Topics include DNA replication, transcription and translation, mutagenesis, DNA repair and recombination, gene transfer, and the regulation of genes and global expression systems. Three hours of lecture per week. Student may not receive credit for BIOL 4612 and either BIOL 6612 or any course previously called Gene Expression in Prokaryotes or Advanced Gene Expression in Prokaryotes.

BIOL 4614 Biotechnology Laboratory I: 4 semester hours

Prerequisites: BIOL 2012 or consent of instructor. An introduction to the fundamental concepts that underlie the field of biotechnology. Both the basic principles of molecular biology and hand-on experience with the techniques of the field will be addressed through lectures, discussions, and a series of laboratory exercises. Two hours of lecture and four hours of laboratory per week. Fulfills a laboratory requirement only; may not be used to fulfill the higher level (4000-5000) lecture course requirement for the B.A. or B.S. degree in biology. Students may not receive credit for BIOL 4614 and a comparable biotechnology course from another institution.

BIOL 4615 Biotechnology Laboratory II: 4 semester hours

Prerequisites: BIOL 4614 and either BIOL 4602 or BIOL 4612, or consent of instructor. An in-depth look at theory and practice of biotechnology. Lectures and discussion will examine the underlying principles, and laboratory exercises will present hands-on experience with current techniques. One hour of lecture and six hours of laboratory per week. Fulfills a laboratory requirement only; may not be used to fulfill the higher level (4000-5000) lecture course requirement for the B.A. or B.S. degree in biology. Students may not receive credit for BIOL 4615 and BIOL 6615.

BIOL 4622 Cellular Basis of Disease: 3 semester hours

Prerequisites: BIOL 3622. A study of the structural organization and processes of eukaryotic cells, focusing on how defects in cellular function lead to genetic diseases and cancer. Topics of discussion may include membrane dynamics, intracellular trafficking, signal transduction, and the cell cycle. Three hours of lecture per week. Students may not receive credit for both BIOL 4622 and BIOL 6622.

BIOL 4632 Nucleic Acid Structure And Function: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 4712 or equivalent, or consent of instructor. A comprehensive view of the structural properties of DNA and RNA that promote molecular interactions and biological function. Topics will include the physical properties of nucleic acids, the formation and biological importance of higher order structures, RNA enzymatic activities, nucleic acid-protein interactions, and RNA metobolism. Three hours of lecture per week. Students may not receive credit for both BIOL 4632 and BIOL 6632.

BIOL 4642 Plant Molecular Biology and Genetic Engineering: 3 semester hours

Prerequisites: BIOL 4602 or BIOL 4612. Topics may include molecular and cellular aspects of plant growth, development, and responses to environmental stress and pathogen attack, using the experimental approaches of genetics, molecular biology, and biochemistry. Plant growth manipulation and genetic engineering, including techniques required for DNA transfer and plant regeneration, as well as current and potential future applications, such as engineered resistance to stress, developmental engineering, and metabolic engineering, also will be covered. Three hours of lecture per week. Student may not receive credit for both BIOL 4642 and BIOL 6642.

BIOL 4652 Virology: 3 semester hours

Prerequisite: BIOL 2012 and BIOL 3622. This first half of the course entails a comparative study of the structure, replication, and molecular biology of viruses. The second half of the course focuses on the pathogenesis, control, and evolution of animal viruses. Three hours of lecture per week. Students may not receive credit for both BIOL 4652 and BIOL 6652.

BIOL 4712 Biochemistry: 3 semester hours

Prerequisites: CHEM 2612 and either BIOL 1831 or CHEM 2622. (Same as CHEM 4712) Examines the chemistry and function of cell constituents, and the interaction and conversions of intracellular substances. Students may not receive credit for both BIOL 4712 and CHEM 4712.

BIOL 4713 Techniques In Biochemistry: 2 semester hours

Prerequisites: BIOL 4712 or CHEM 4712 (may be taken concurrently). Laboratory activities introducing fundamental qualitative and quantitative biochemical techniques. Student evaluation will be based on laboratory participation, student laboratory reports, and written examinations. Three and one-half hours of organized laboratory time per week. Students may need to return to the laboratory at unscheduled times to complete some experiments.

BIOL 4797 Biochemistry and Biotechnology Seminar: 1 semester hour

Prerequisites: Same as CHEM 4797. Senior standing in the Biochemistry and Biotechnology program. This course will focus on selected publications related to biochemistry and biotechnology from both refereed journals and news sources. Students are expected to participate in discussions and to prepare oral and written presentations. Completion of the Major Field Achievement Test in Biochemistry & Biotechnology is a course requirement. May not be taken for graduate credit.

BIOL 4822 Introduction To Neuroscience: 3 semester hours

Prerequisite: BIOL 3802 or consent of instructor. The study of nervous systems, featuring the cellular bases of initiation and conduction fo the impulse, synaptic transmission, and the network integrative function of invertebrate and vertebrate nervous systems. This course emphasizes the multidisciplinary nature of the neurosciences, including anatomical, physiological and molecular approaches to understanding neural function. Three hours of lecture per week.

BIOL 4842 Immunobiology: 3 semester hours

Prerequisite: BIOL 3622 and CHEM 2612. The fundamental principles and concepts of immunology and immunochemistry. Emphasis on the relation of immunological phenomena to biological phenomena and biological problems. Three hours lecture per week.

BIOL 4889 Senior Seminar: 2 semester hours

Prerequisites: BIOL 1821, BIOL 1831, BIOL 2012, and BIOL 3302, with a total of at least 30 credits in Biology. Oral and written presentation by students of selected scientific papers or articles. Students are expected to participate in discussions of oral presentations by other students. May not be taken for graduate credit.

BIOL 4905 Research: 1-3 semester hours

Prerequisites: Consent of faculty research advisor: generally restricted to junior and senior standing. Research in an area selected by the student in consultation with and under the direct supervision of an UMSL biology faculty research adviser. Research opportunities are subject to availability and must be approved in advance of beginning research. The project normally includes the reading of pertinent literature, laboratory or field experience, including keeping of a logbook, and a summary paper and a presentation, all based on an average 8 hours per week per credit during a 15 week semester. Credit arranged. Course may be repeated for a total of up to 5 credit hours. A maximum of one lab requirement may be satisfied using any two BIOL 4905 credits. Additional credits may be applied toward the total biology hours required for the biology BA or BS.

BIOL 4915 Biology Internship: 1-3 semester hours

Prerequisites: Consent of faculty research advisor; generally restricted to junior and senior standing. Research in an area selected by the student to be conducted off-campus in a lab of a professional researcher or faculty person (the internship mentor) other than those in UMSL Biology. Research opportunities are subject to availability and must be approved in advance of beginning research by an UMSL biology faculty liaison and the internship mentor. The project normally includes the reading of pertinent literature, laboratory or field experience, including keeping of a logbook, and a summary paper and a presentation, all based on an average 8 hours per week per credit during a 15 week semester. Credit arranged. Course may be repeated for a total of up to 5 credit hours. A maximum of one lab requirement may be satisfied using any two BIOL 4905 credits. Additional credits may be applied toward the total biology hours required for the biology BA or BS.

BIOL 4920 Selected Topics: 1-10 semester hours

Prerequisite: Junior standing and consent of instructor. Selected topics in biology. The topics will vary each semester. Topics offered for the following semester will be available in the departmental office. Credit arranged. May be taken more than once for credit.

BIOL 4986 Laboratory In Teaching Life Sciences: 2 semester hours Same as SEC ED 4986. Prerequisite: TCH ED 3310. Discussion, development, utilization, and evaluation of equipment, materials, and techniques applicable to instruction in the life sciences. Must be taken concurrently with BIOL 4985/ SEC ED 4985.

BIOL 5059 Topics In Ecology, Evolution, And Systematics: 1 semester hour

Prerequisites: Graduate Standing. Presentation and discussion of faculty and student current research projects in behavior, ecology, evolution, and systematics. May be repeated.

BIOL 5069 Topics In Cellular And Molecular Biology: 1 semester hour Presentation and discussion of student and faculty research projects and/or current research articles in molecular, cellular and developmental biology. May be repeated.

BIOL 5079 Topics In Floristic Taxonomy: 1 semester hour Prerequisite: BIOL 2501 or equivalent, and graduate standing.

Prerequisite: BIOL 2501 or equivalent, and graduate standing. Seminar Course In Systematics Of Higher Plants, Arranged In The Cronquist Sequence Of Families, Covering Morphology, Anatomy, Palynology, Biogeography, Chemosystematics, Cytology, And Other Aspects Of Plant Classification And Phylogenetics. Given At The Missouri Botanical Garden. One Hour Per Week.

BIOL 5123 Advanced Tropical Resource Ecology Field Studies: 2 semester hours

Prerequisites: BIOL 5122 (may be taken concurrently). The field component to the lecture and seminar course. Examines the patters of use and exploitation of resources in the topics by humans in the context of the theories of behavioral ecology. Two weeks of intensive field research and lectures in Guyana, South America during the second and third weeks of Summer Session I (trip costs to be borne by the student). Students may not receive credit for both BIOL 3123 and BIOL 5123. Offered in odd numbered years.

BIOL 5179 Ethical Issues in Biology: 1 semester hour

Prerequisites: Graduate Standing. Using readings and discussions, students will explore ethical issues in Biology in both professional and social realms. Professional topics include authorship, grants accounting, and academic misconduct; social topics include ethical foundations of basic and applied science, government regulation of science, environmental and individual protection, and current issues.

BIOL 5192 Community Ecology: 3 semester hours

Prerequisites: Graduate standing and either B2102 and B4182 or an equivalent course. Studies of structure and organization of natural communities stressing the abundance and distribution of species, the regulation of species diversity, and the evolution of demographic parameters in populations.

BIOL 5312 Theory Of Systematics: 3 semester hours

Prerequisites: BIOL 1821, BIOL 1831 and at least one course beyond the introductory level dealing with animal, plant, or microbial diversity (such as BIOL 2482, BIOL 2501, BIOL 2402, BIOL 4482, BIOL 4501, BIOL 4402, BIOL 4422) or consent of instructor. Course investigates the theory of classification, phylogenetic analysis, systematic biology, and their relation to systematic practice. Will cover goals and schools of systematics, characters and homology, analysis of molecular and morphological data and underlying assumptions, species concepts, classification, naming, and the connections between evolutionary biology and systematics. The course is appropriate for upper level undergraduates & graduate students in all disciplines, animal, plant, and microbial, as an introduction to systematic methods. Three hours of lecture per week.

BIOL 5314 Herbarium Taxonomy: 2 semester hours

Prerequisite: BIOL 5312. An introduction to the principles and practice of herbarium taxonomy, emphasizing species description, identification, how to access and use the taxonomic literature, data basing, nomenclature, curation, and collecting and the national and international regulations governing it. Two hours of lectures per week, projects including specimen curation, writing species description, etc., to be arranged. Offered every even year.

BIOL 5436 Applied Bioinformatics: 3 semester hours

Prerequisites: BIOL 4712 or BIOL 4602 or consent of instructor. This course provides a survey of the various computational approaches that can be used to solve biological problems. Specific attention will be focused on biological databases and methods for using and interpreting database information, sequence alignments, functional genomics, structure prediction, high-throughput analyses, and proteomics. Three hours of lecture per week.

BIOL 6102 Advanced Topics In Behavioral Ecology: 3 semester hours

Prerequisite: BIOL 3102 (BIOL 2102 is recommended). Topics in animal behavior with an emphasis on ecological and evolutionary aspects of behavior. Topics may include the role of behavior in population regulation, habitat selection and spacing, feeding and predator-prey interactions, sexual selection, evolution of mating systems, and new approaches to animal communication. Three hours of lecture, one hour of discussion or seminar per week. Students may not receive credit for both BIOL 4102 and BIOL 6102.

BIOL 6112 Advanced Evolution Of Animal Sociality: 3 semester hours

Prerequisites: BIOL 2102 or BIOL 4182 recommended or consent of instructor. The evolution of sociality, including a critical examination of sociobiological theories and alternative approaches of social evolution. Survey of social organization and behavior in anthropods, with an emphasis on social insects, & vertebrates. Two hours of lecture and one hour of discussion per week. Students may not receive credit for both BIOL 4112 and BIOL 6112.

BIOL 6182 Advanced Population Biology: 3 semester hours

Prerequisites: BIOL 2012 (BIOL 3302 recommended). Introduces concepts and mathematical models of population ecology and population genetics. By integrating the ecology and genetics of population, the course goal is to understand the processes that contribute to microevolution of populations. Topics include: demography, metapopulation biology, natural selection, migration, gene flow, and genetic drift. A discussion section will focus on mathematical elements of population biology models. Three hours of discussion per week. Students may not receive credit for both BIOL 4182 and BIOL 6182.

BIOL 6192 Applications Of Geographic Information Systems: 5 semester hours

Prerequisites: BIOL 2102, BIOL 4122 or equivalent, and consent of instructor. Geographic Information Systems (GIS) are sophisticated computer-based systems for analysis, capture, presentation, and maintenance of geographically referenced data. This course provides a foundation in using GIS for spatial analysis. Although biological examples are primarily used, examples from a range of disciplines are employed to emphasize the use of GIS as a tool to support analysis and decision-making. Students will have hands-on use of GIS software using Windows 2000/NT based workstations during each session. An independent research project applying the spatial analysis tools learned in GIS to biological research will be required. Five hours of combined lecture and computer operations, plus 2-3 hours of open lab per week.

BIOL 6212 Theory And Application Of Conservation Biology: 3 semester hours

Prerequisite: BIOL 4182 or BIOL 5162 or equivalent or consent of instructor. Prerequisites may be taken concurrently. Advanced analysis of conservation theory with emphasis on conservation of populations, their genetic diversity, and the biodiversity of habitats. Applied aspects of conservation and sustainable development will be illustrated through case studies presented by conservation professionals.

BIOL 6222 Advanced Tropical Ecology And Conservation: 3 semester hours

Prerequisite: BIOL 2102, BIOL 4182, or BIOL 5192, or their equivalent. This course will cover research areas in tropical population, community and ecosystem ecology, with emphasis on inter-species and environment-organism interactions, population control factors, and genetic structure of populations. Topics include the current status and causes of tropical habitat destruction, ongoing attempts to manage those habitats, and development of strategies leading to sustained use of non-renewable resources. A research proposal designed to investigate a current topic in tropical ecology will be required. Students may nor receive credit for BIOL 4222 and BIOL 6222. Three hours of lecture per week.

BIOL 6250 Public Policy Of Conservation And Sustainable Development: 3 semester hours

Prerequisite: Same as POL SCI 6452. Graduate standing in Biology or Political Science and consent of instructor. Prior course in ecology recommended. This course will introduce the student to concepts and techniques for formulating. implementing, and analyzing public policy with an emphasis on environmental concerns, conservation, and sustainable development. The course will be team taught by a political scientist and a biologist. Course materials will include case studies that demonstrate the special problems of environmental policymaking in developing and developed economies.

BIOL 6270 Advanced Global Climate Change: 3 semester hours

Prerequisites: Graduate Standing or permission of the instructor. We will cover the fundamental physical, meteorological, and biological circumstances of global climate change, as well as predictions of its future effects on biological diversity, including humans, and how those estimates are made. We will also cover basic environmental economics and politics of climate change at local and global levels. The course will be taught as a series of lectures and discussions led by guest experts in each of the subdisciplines covered. Students may not receive credit for both BIOL 4270 and BIOL 6270.

BIOL 6299 Internship In Conservation Biology: 1-4 semester hours

Prerequisite: BIOL 6250 or BIOL 6212 and consent of the director of graduate studies in biology. Internships will consist of a period of study, observation and on-the-job training at a conservation or environmental agency. Specific placements will be selected according to student's interests and career goals. Internships may vary from 2 weeks to 4 months in duration.

BIOL 6442 Advanced Developmental Biology: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 3622. A study of the basic principles that shape the embryonic and post-embryonic development of animals with an emphasis on the underlying cellular and molecular mechanisms. Specific topics include fertilization, determination of cell fate and differentiation, cell migration, establishment of the body plan, formation of selected organs and organ systems, stem cells, and limb regeneration. Environmental influences on development and the impact of developmental biology on modern medicine are also discussed. Three hours of lecture/discussion per week. Students may not receive credit for both BIOL 4442 and BIOL 6442.

BIOL 6550 Advanced Bacterial Pathogenesis: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. Examination of the strategies bacterial pathogens use to infect animals. Topics include host immune responses to infection, bacterial virulence factors, regulation of bacterial virulence, and the cellular and molecular approaches used to study hostparasite interactions. Students may not receive credit for both BIOL 6550 and BIOL 4550. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Three hours of lecture per week.

BIOL 6552 Advanced Evolution And Phylogeny Of Seed Plants: 5 semester hours

Prerequisites: BIOL 3302 or BIOL 2501, or equivalent. Advanced approaches in examination of the evolution of, and relationships among, major lines of seed-bearing plants, both extinct (Bennettitales, cordaites, etc.) and extant (conifers, cycades, ginkgo, Gnetales, and flowering plants). Criteria for the assessment of morphological homology are examined, and wherever possible the evolution of morphological structures is related to their function. Includes use of cladistic methods and practical exercises in the analysis of large morphological data matrices using PAUP and MacClade. Two hours of lecture per week and one hour of laboratory per week to be arranged. Does not fulfill a laboratory requirement for biology majors. students may not receive credit for both BIOL 4552 and BIOL 6552.

BIOL 6602 Advanced Molecular Biology: 3 semester hours

Prerequisites: BIOL 2012 and CHEM 2612, or consent of instructor. A study of the principles of molecular biology, with emphasis on understanding the genetic regulation of DNA, RNA, and protein synthesis and function in eukaryotic cells. Three hours of lecture per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Students may not receive credit for both BIOL 6602 and BIOL 4602, or any course previously called Gene Expression in Eukaryotes or Advanced Gene Expression in Eukaryotes.

BIOL 6612 Advanced Molecular Genetics Of Bacteria: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 2482. A study of the molecular biology of gene replication, transfer, and expression in bacterial cells. Topics include DNA replication, transcription and translation, mutagenesis, DNA repair and recombination, gene transfer, and the regulation of genes and global expression systems. Three hours of lecture per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Student may not receive credit for both BIOL 6612 and BIOL 4612 or any course previously called Gene Expression in Prokaryotes or Advanced Gene Expression in Prokaryotes.

BIOL 6615 Advanced Biotechnology Laboratory II: 4 semester hours Prerequisites: BIOL 4614 and either BIOL 4602 or BIOL 4612, or consent of instructor. An in-depth look at the theory and practice of biotechnology. Lectures and discussion will examine the underlying principles, and laboratory exercises will present hands-on experience with current techniques. One hour of lecture and six hours of laboratory per week. Students will be required to give an oral presentation and/or write an extra paper on a topic relevant to the course. Students may not receive credit for both BIOL 6615 and BIOL 4615 or any course previously called Techniques in Molecular Biology or Advanced Techniques in Molecular

BIOL 6622 Advanced Cellular Basis of Disease: 3 semester hours

Biology.

Prerequisites: BIOL 3622, or consent of instructor. A study of the structural organization and processes of eukaryotic cells, focusing on how defects in cellular function lead to genetic diseases and cancer. Topics of discussion may include membrane dynamics, intracellular trafficking, signal transduction, and the cell cycle. Three hours of lecture per week. Students may not receive credit for both BIOL 6622 and BIOL 4622.

BIOL 6632 Advanced Nucleic Acid Structure And Function: 3 semester hours

Prerequisites: BIOL 2012 and BIOL 4712 or equivalent, or consent of instructor. A comprehensive view of the structural properties of DNA and RNA tha tpromote molecular interactions & biological function. Topics will include the physical properties of nucleic acids, the formation and biological importance of higher order structures, RNA enzymatic activities, nucleic acid-protein interactions, and RNA metobolism. Three hours of lecture and one hour of discussion per week. Students may not receive credit for both BIOL 4632 and BIOL 6632.

BIOL 6642 Advanced Plant Biology And Biotechnology: 3 semester hours

Prerequisites: BIOL 4602 or BIOL 4612. Topics may include molecular and cellular aspects of plant growth, development, and responses to environmental stress and pathogen attack, using the experimental approaches of genetics, molecular biology, and biochemistry. Plant growth manipulation and genetic engineering, including the techniques required for DNA transfer and plant regeneration, as well as current and potential future applications, such as engineered resistance to stress, developmental engineering, and metabolic engineering, also will be covered. Student may not receive credit for both BIOL 4642 and BIOL 6642.

BIOL 6652 Advanced Virology: 3 semester hours

Prerequisites: BIOL 2012, BIOL 3622, and graduate standing. This first half of the course entails a comparative study of the structure, replication, and molecular biology of viruses. The second half of the course focuses on the pathogenesis, control, and evolution of animal viruses. Three hours of lecture, one hour of discussion or seminar per week. Students may not receive credit for both BIOL 4652 and BIOL 6652.

BIOL 6699 Graduate Internship In Biotechnology: 1-4 semester hours

Prerequisites: Graduate standing and enrollment in graduate Biotechnology Certificate Program. 6 credit hours maximum (maximum of 8 combined credit hours of BIOL 6905 and internship) Internship will consist of period of observation, experimentation and on-the-job training in biotechnology laboratory. The laboratory may be industrial of academic. Credit will be determined by the number of hours the student works each week and in consultation between the intern's supervisor and the instructor. Internship assignments will be commensurate with the education and experience of the student.

BIOL 6889 Graduate Seminar: 2 semester hours

Presentation and discussion of various research problems in biology. Graduate student exposure to the seminar process.

BIOL 6905 Graduate Research In Biology: 1-10 semester hours Research in area selected by student in consultation with faculty members

BIOL 6915 Graduate Research Practicum: 1-2 semester hours

Prerequisite: Consent of instructor. This course is designed for graduate students wishing to pursue research experience in an area outside their dissertation topic. The project can be techniques-oriented or focused on a specific research question. The credit hours will depend on the time commitment to the project as decided by the supervisory faculty member.

BIOL 6920 Topics In Biology: 2-5 semester hours

In-depth studies of selected topics in contemporary biology. May be repeated. Three lecture hours per week.

Chemistry and Biochemistry

General Information

Degrees and Areas of Concentration

The Department of Chemistry and Biochemistry offers courses leading to the following baccalaureate degrees:

- · B.A. in Chemistry
- . B.A. in Chemistry with a Biochemistry Certificate
- B.S. in Chemistry (with a Chemistry or Biochemistry Option)
- B.S. in Education with an emphasis in Chemistry (in cooperation with the College of Education)
- . B.A. in Chemistry with teacher certification.

The department is accredited by the American Chemical Society. Students completing the B.S. degree (chemistry or biochemistry option) are certified by the American Chemical Society. The B.S. degree is the professional degree in chemistry, and students who earn the B.S. degree are well prepared for a career in the chemical industry or for graduate work in chemistry. The department provides opportunities for undergraduates to become involved in ongoing research projects and to participate in departmental teaching activities.

The department also offers graduate work leading to the M.S. or Ph.D. degree in chemistry with most graduate courses being scheduled in the evening. A student may earn a M.S. degree with or without a thesis. The non-thesis option provides a convenient way for students who are employed full-time to earn an advanced degree. Research leading to a M.S. thesis or Ph.D. dissertation may be conducted in one of four emphasis areas, namely, inorganic chemistry, organic chemistry, physical chemistry, or biochemistry. The nature of the graduate program allows each student to receive individualized attention from his/her research mentor, and to develop hands-on experience with major instrumentation in the department.

Fellowships and Scholarships

The following scholarships, fellowships and awards are available to chemistry majors:

- The John J. Taylor Scholarship is given to a full-time student with high financial need, pursuing a chemistry degree and currently enrolled either of junior or senior status.
- The Friends and Alumni Scholarship is given to a full-time student with high financial need and pursuing a chemistry degree.
- The Monsanto Scholarship in Biochemistry and Biotechnology is open to full-time Sophomore, Junior or Senior students at the University pursuing a Bachelor of Science degree in Biochemistry and Biotechnology.
- William and Erma Cooke Chemistry Scholarships are given annually to outstanding full-time chemistry majors who are at least sophomores and have financial need.
- The Lawrence Barton Scholarship is awarded to a junior, preferably a first generation college student.
- The Barbara Willis Brown Scholarship for Women in Chemistry is given annually to a female chemistry major who is at least 25 years of age. The student is encouraged to enroll in undergraduate research (CHEM 3905), however research is not requirement for this award. Student financial need is a consideration.

- The Eric G. Brunngraber Memorial Scholarship is given to a chemistry major based on GPA, statement of research interests, and performance in completed course work.
- Aid to Education Scholarships are given to junior or senior chemistry majors annually. Faculty select awardees on the basis of merit.
- The M. Thomas Jones Fellowship is given each semester to the graduate student who is deemed by his/her peers to have presented the best research seminar.
- The Graduate Research Accomplishment Prize is given annually. The recipient is chosen based on his/her publications, presentations at professional meetings, and seminars given at UMSL.
- Alumni Graduate Research Fellowships are available for summer study for selected chemistry graduate students. Several undergraduate awards are given each year to outstanding students. The Chemical Rubber Company Introductory Chemistry Award is given to the outstanding student in introductory chemistry, the Outstanding Sophomore Chemistry Major award is made to the top sophomore chemistry student, the American Chemical Society Division of Analytical Chemistry Award is given to the outstanding student in analytical chemistry, the American Chemical Society-St. Louis Section, Outstanding Junior Chemistry Major Award is given to the outstanding junior chemistry major, and the outstanding senior receives the Alan F. Berndt Outstanding Senior Award.

Departmental Honors

The Department of Chemistry and Biochemistry will award departmental honors to those B.A. and B.S. degree candidates in chemistry with an overall grade point average of 3.2. They must also successfully complete CHEM 3905, Chemical Research, and must present an acceptable thesis.

Career Outlook

The St. Louis metropolitan area has long been a major center for industrial chemistry, and in the past decade it has become a focus for the establishment of life sciences research and development. A bachelor's degree in chemistry provides a student with the professional training needed to play a part in this ever-changing industry.

A major in chemistry provides excellent preprofessional training in the health sciences, and a double major in chemistry and biology is often chosen by premedical and predental students and those interested in graduate work in biochemistry and biology. A minor in chemistry provides the minimum qualification and training for a position as a laboratory technician in industry, hospital laboratories, etc.

A Master's degree in chemistry is often required for further advancement in the chemical industry, whereas a doctoral degree opens the door to many opportunities, including careers in the academic world, industrial research and development, and in government laboratories.

Undergraduate Studies

General Education Requirements

Students must satisfy the university and college general education requirements (p. 28). Courses in chemistry may be used to meet the university's science and mathematics area requirement. The college's foreign language requirement fulfills the departmental requirements for B.A. candidates. B.S. degree candidates are not required to take a foreign language: however, the American Chemical Society (ACS) states that

the study of a foreign language is recommended, especially for students planning to pursue graduate studies in chemistry.

Satisfactory/Unsatisfactory Restrictions

Chemistry majors may not take required chemistry, mathematics, or physics courses on a satisfactory/unsatisfactory basis.

Degree Requirements

CHEM 1111 (p. Introductory Chemistry I

Bachelor of Arts in Chemistry

This degree is intended primarily for preprofessional students in health science and related areas, as well as prelaw students interested in patent law. Candidates must complete the following chemistry courses:

114)	introductory Chemistry I	5
CHEM 1121 (p. 114)	Introductory Chemistry II	5
CHEM 2223 (p. 114)	Quantitative Analysis	3
CHEM 2612 (p. 114)	Organic Chemistry I	3
CHEM 2622 (p. 114)	Organic Chemistry II	3
CHEM 2633 (p. 114)	Organic Chemistry Laboratory	2
CHEM 3022 (p. 114)	Introduction To Chemical Literature	1
CHEM 3312 (p. 114)	Physical Chemistry I	3
CHEM 3322 (p. 114)	Physical Chemistry II	3
CHEM 3333 (p. 114)	Physical Chemistry Laboratory I	2
CHEM 3412 (p. 114)	Basic Inorganic Chemistry	2
CHEM 4897 (p. 114)	Seminar	1
Select one of the	following:	
CHEM 3643 (p. 114)	Advanced Organic Chemistry Laboratory	
CHEM 4233 (p. 114)	Laboratory In Instrumental Analysis	
CHEM 4343 (p. 114)	Physical Chemistry Laboratory II	
CHEM 4433 (p. 114)	Inorganic Chemistry Laboratory	
CHEM 4733 (p. 114)	Biochemistry Laboratory	

No more than 45 hours in chemistry may be applied toward the degree. Each chemistry major must present a seminar and pass a comprehensive examination during the senior year. At least 12 credits at the 3000 level or higher must be completed at UMSL. The Department of Chemistry and Biochemistry may require students to pass a tracking test in order to enroll

Total Hours

in the next level course, provided this or an equivalent test is administered to all students seeking to enroll in that course.

Bachelor of Arts in Chemistry with a Biochemistry Certificate

The university offers a certificate program for science majors who are interested in careers in biochemistry. This is an interdisciplinary program that involves additional courses in biochemistry and biology. In addition to the usual requirements for the B.A. degree in chemistry, the student must take the following courses:

Chemistry

5

CHEM 4712 (p. 114)	Biochemistry	3
CHEM 4722 (p. 114)	Advanced Biochemistry	3
CHEM 4733 (p. 114)	Biochemistry Laboratory	2
CHEM 4772 (p. 114)	Physical Biochemistry	3
Biology		
BIOL 1831 (p. 114)	Introductory Biology: From Molecules To Organisms	5
BIOL 2012 (p. 114)	Genetics	3
BIOL 3622 (p. 114)	Cell Biology	3
BIOL 4602 (p. 114)	Molecular Biology	3
Total Hours		25

At least 12 hours at the 3000 level or above must be completed at UMSL.

Students may obtain a minor in biology by adding BIOL 1821 (p. 114) to the curriculum described above. The Biology department also offers a certificate in biochemistry.

Bachelor of Science in Chemistry

This is the first professional degree in chemistry. It may be taken as a terminal degree by students intending to become professional chemists or for preparation for graduate work in chemistry or biochemistry. Students may choose to specialize in chemistry or biochemistry.

Chemistry Option

33

Candidates must complete the requirements for the B.A. degree in chemistry. In addition, the following chemistry courses are required:

	CHEM 3643 (p. 114)	Advanced Organic Chemistry Laboratory	2
	CHEM 4212 (p. 114)	Instrumental Analysis	2
	CHEM 4233 (p. 114)	Laboratory In Instrumental Analysis	2
	CHEM 4343 (p. 114)	Physical Chemistry Laboratory II	2
	CHEM 4412 (p. 114)	Advanced Inorganic Chemistry	3

CHEM 4433 (p. 114)	Inorganic Chemistry Laboratory	2
CHEM 4712 (p. 114)	Biochemistry	3
Total Hours		16

Students must also take two elective hours of advanced work in chemistry at the 3000 level or above. Students are encouraged to take CHEM 3905 (p. 114), Chemical Research, to fulfill the advanced elective requirement.

Biochemistry Option

Candidates must complete the requirements for the B. A. degree in chemistry. In addition, the following chemistry and biology courses are required:

Chemistry

Oncomot y		
CHEM 3643 (p. 114)	Advanced Organic Chemistry Laboratory	2
CHEM 4212 (p. 114)	Instrumental Analysis	2
CHEM 4233 (p. 114)	Laboratory In Instrumental Analysis	2
CHEM 4712 (p. 114)	Biochemistry	3
CHEM 4722 (p. 114)	Advanced Biochemistry	3
CHEM 4733 (p. 114)	Biochemistry Laboratory	2
Select one of the	following:	3
CHEM 4772 (p. 114)	Physical Biochemistry	
CHEM 3905 (p. 114)	Chemical Research (3 credits)	
BIOL 4905 (p. 114)	Research (3 credits)	
Biology		
BIOL 1831 (p. 114)	Introductory Biology: From Molecules To Organisms	5
BIOL 2012 (p. 114)	Genetics	3
BIOL 3622 (p. 114)	Cell Biology	3
Total Hours		28

If either research option is chosen, the project must be in biochemistry and must include a written final report submitted to the Department of Chemistry and Biochemistry.

Fifty-one hours of chemistry courses may be applied toward the degree. At least 24 hours of chemistry at the 3xxx level or higher must be completed at UMSL. Each chemistry major candidate must present a seminar and pass a comprehensive examination during the senior year.

Related Area Requirements

Bachelor of Arts and Bachelor of Science in Chemistry

Candidates for both degrees must also complete:

MATH 1800 (p. 114)	Analytic Geometry And Calculus I	5
MATH 1900 (p. 114)	Analytic Geometry And Calculus II	5
MATH 2000 (p. 114)	Analytic Geometry And Calculus III	5
PHYSICS 2111 (p. 114)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 114)	Physics: Electricity, Magnetism, And Optics	5
Total Hours		25

Degrees with Certification to Teach Chemistry in Secondary Schools

One can be certified to teach chemistry at the secondary level with a degree either in Education or in Chemistry. All candidates for certification must enroll in a program that includes Levels I, II, and III course work in the College of Education. The Missouri Department of Elementary and Secondary Education requires that candidates for certification to teach secondary chemistry complete certain Science Core Courses and specialized courses in chemistry

Science Core Courses

	PHIL 3380 (p. 114)	Philosophy Of Science	3
	BIOL 1831 (p. 114)	Introductory Biology: From Molecules To Organisms	5
	CHEM 1111 (p. 114)	Introductory Chemistry I	5
	CHEM 1121 (p. 114)	Introductory Chemistry II	5
	BIOL 1202 (p. 114)	Environmental Biology	3
	PHYSICS 2111 (p. 114)	Physics: Mechanics And Heat	5
	Select one of the t	following:	4
	GEOL 1001 (p. 114)	General Geology	
	ATM SCI 1001 (p. 114)	Elementary Meteorology	
	ASTRON 1001 (p. 114)	Cosmic Evolution Introductory Astronomy	
	or equivalent		

Chemistry Endorsement

CHEM 2223 (p. 114)	Quantitative Analysis	3
CHEM 2612 (p. 114)	Organic Chemistry I	3
CHEM 2622 (p. 114)	Organic Chemistry II	3
CHEM 2633 (p. 114)	Organic Chemistry Laboratory	2
CHEM 3312 (p. 114)	Physical Chemistry I	3
or CHEM 3302 (p. 114)	Physical Chemistry For The Life Sciences	

CHEM 4712 (p. 114)	Biochemistry	3	
	SEC ED 4837 (p. 114)	Chemistry/Physics Teaching Seminar	2
	SEC ED 4989 (p. 114)	Practicum I: Site Based Experience	3
	SEC ED 4990 (p. 114)	Practicum II: Site Based Experience	12
	Total Hours		64

Bachelor of Arts in Chemistry with Teacher Certification

Students must complete the B.A. in chemistry requirements, as well as the requirements for teacher certification. (See the College of Education section of this Bulletin.) There are a few science courses beyond the minimum listed above.

PHYSICS 2112 (p. 114)	Physics: Electricity, Magnetism, And Optics	
CHEM 3322 (p. 114)	Physical Chemistry II	3
CHEM 3333 (p. 114)	Physical Chemistry Laboratory I	2
CHEM 3412 (p. 114)	Basic Inorganic Chemistry	2
Total Hours		12

Students earning BA or BS degrees in chemistry must achieve a GPA of 2.0 or higher for the combination of chemistry courses and required related area courses

Minor in Chemistry

Requirements for the Minor

Students may earn a minor in chemistry by completing the following program. The following five courses are required:

CHEM 1111 (p. 114)	Introductory Chemistry I	5
CHEM 1121 (p. 114)	Introductory Chemistry II	5
CHEM 2223 (p. 114)	Quantitative Analysis	3
CHEM 2612 (p. 114)	Organic Chemistry I	3
CHEM 2633 (p. 114)	Organic Chemistry Laboratory	2
Select one of the	following:	2-3
CHEM 2622 (p. 114)	Organic Chemistry II	
CHEM 3312 (p. 114)	Physical Chemistry I	
CHEM 3412 (p. 114)	Basic Inorganic Chemistry	

T		
114)		
4712 (p.		
CHEM/BIOL	Biochemistry	

Total Hours 20-21

Courses, which are prerequisites to subsequent courses in the minor, may not be taken on a satisfactory/ unsatisfactory basis. A GPA of at least 2.0 is required for the courses presented for the minor. At least three courses toward the minor must be completed at UMSL.

Bachelor of Science in Biochemistry and Biotechnology

The Department of Chemistry and Biochemistry, in cooperation with the Department of Biology, offers a Bachelor of Science degree in Biochemistry and Biotechnology (https://nextbulletin.umsl.edu/artsandsciences/biochemistryandbiotechnology). Information about this degree program may be found at the Biochemistry & Biotechnology Programs Home Page (http://www.umsl.edu/~biotech).

3+4 Chemistry - Optometry Program

This is a new program option for a Chemistry degree that would enable students to earn a BA in Chemistry in 3 years (likely requiring that some courses be taken over the summer semesters) and an Optometry degree in 4 years.

1st Semester (15)

CHEM 1111 (p. 114)	Introductory Chemistry I	5
BIOL 1821 (p. 114)	Introductory Biology: Organisms And The Environment	5
MATH 1800 (p. 114)	Analytic Geometry And Calculus I	5
Total Hours		15

2nd Semester (18)

CHEM 1121 (p. 114)	Introductory Chemistry II	5
BIOL 1831 (p. 114)	Introductory Biology: From Molecules To Organisms	5
MATH 1900 (p. 114)	Analytic Geometry And Calculus II	5
PSYCH 1003 (p. 114)	General Psychology ¹	3
Total Hours		18

Summer Option

Summer Semester (3-8)

CHEM 2612 (p. 114)	Organic Chemistry I	3	
CHEM 2622 (p. 114)	Organic Chemistry II	3	
CHEM 2633 (p. 114)	Organic Chemistry Laboratory	2	
Or General Education Courses ²			
Total Hours		8	

3rd Semester (13+)			
MATH 2000 (p. 114)	Analytic Geometry And Calculus III	5	
PHYSICS 2111 (p. 114)	Physics: Mechanics And Heat	5	
CHEM 2612 (p. 114)	Organic Chemistry I ³	3	
General Education	n Courses ²		
Total Hours		13	
4th Semest	ter (15)		
PHYSICS 2112 (p. 114)	Physics: Electricity, Magnetism, And Optics	5	
CHEM 2223 (p. 114)	Quantitative Analysis	3	
CHEM 3412 (p. 114)	Basic Inorganic Chemistry	2	
CHEM 2622 (p. 114)	Organic Chemistry II ³	3	
CHEM 2633 (p. 114)	Organic Chemistry Laboratory ³	2	
Total Hours		15	
Summer O	ption		
Summer Se	mester (3-8)		
CHEM 2612 (p. 114)	Organic Chemistry I	3	
CHEM 2622 (p. 114)	Organic Chemistry II	3	
CHEM 2633 (p. 114)	Organic Chemistry Laboratory	2	
Or General Educa	ation Courses ²		
Total Hours		8	
5th Semest	ter (13+)		
CHEM 3022 (p. 114)	Introduction To Chemical Literature	1	
CHEM 3312 (p. 114)	Physical Chemistry I	3	
CHEM 4712 (p. 114)	Biochemistry ⁴	3	
CHEM 4733 (p. 114)	Biochemistry Laboratory ⁴	2	
PSYCH 2201 (p. 114)	Psychological Statistics ¹	4	
General Education	n Course ²		
Total Hours		13	
6th Semest	ter (11+1)		
CHEM 3333 (p. 114)	Physical Chemistry Laboratory I	2	
CHEM 3322 (p. 114)	Physical Chemistry II	3	

CHEM 4897 (p. 114)	Seminar	1	
BIOL 2482 (p. 114)	Microbiology ¹	3	
BIOL 2483 (p. 114)	Microbiology Laboratory ¹	2	
General Education	on Courses ²		
Total Hours		11	
Summer Ontion			

Summer Option

Summer Semester

General Education Courses 1

Total Hours 0

The basis for this 3+4 program is that students are required to do the courses (and the prerequisites) for the Chemistry Bachelor of Arts degree with the exception that students can substitute Optometry's Physical Optics and Photometry course (OPTOM 8140) for the advanced laboratory which is required for the B.A. in chemistry degree; additionally CHEM 3322 (p. 114) (Physical Chemistry II and CHEM 4897 (p. 114) (Seminar) can be completed in the first year of enrollment in the Optometry program though this is NOT recommended because students in the Optometry program take more than 20 credit hours each semester. In order to complete the chemistry program in 3 years, it is likely that some courses would need to be taken over the summer sessions (between semester 2 and 3 and between semester 4 and 5). Three chemistry classes that also are offered over the summer are suggested as options in the above schedule. These are quite compacted classes so it is not generally advised as the best option. If that summer option is chosen for those chemistry classes, however, some of the required General Education courses can be taken during the regular (3rd and 4th) semesters in place of the chemistry classes (CHEM 2612 (p. 114), CHEM 2622 (p. 114), CHEM 2633 (p. 114)) that also are scheduled for the 3rd and 4th semester. Alternatively, General Education courses can be taken in the summer.

- The College of Optometry requires two courses in English [e.g., Freshman Composition (ENGL 1100 (p. 114)), junior English courses (e.g., ENGL 3160 (p. 114), ENGL 3100 (p. 114))] which is also a General Education requirement, two courses in Psychology, two Liberal Arts courses, a Statistics course, and a course in Microbiology with Lab. If Psychological Statistics (PSYCH 2201 (p. 114), 4 credits) is taken as the second Psychology course, that also satisfies the Statistics course requirement. One of the courses suggested in psychology (General Psychology, PSYCH 1003 (p. 114)) also satisfies one of the three-course requirement in Social and Behavioral Sciences Knowledge (see not below on General Education courses).
- General Education courses [(1) Communicating Skills (two 3 credit courses), (2) Managing Information Skills (one 3-credit course), (3) Valuing Skill (one 3-credit course, (4) Social and Behavioral Science Knowledge (three 3-credit courses) (5) Humanities and Fine Arts Knowledge (three 3-credit courses), and (6) Mathematics and Life/ Natural Sciences Knowledge (four 3-credit courses)] and Foreign Language courses (required for the Chemistry B.A. degree) are not listed specifically here. The requirements for Skill Goal 2 and Knowledge Goal 6 would be fulfilled by completing courses in the program listed above.

- CHEM 2612 (p. 114), CHEM 2622 (p. 114), and CHEM 2633 (p. 114) are courses offered during the summer; currently, CHEM 2223 (p. 114) is not.
- The College of Optometry strongly recommends a course in Anatomy or Physiology and a course in Biochemistry. BIOL 1102 (p. 114) satisfies the Anatomy or Physiology requirement but this course is not included in the schedule listed above. Another course recommended by the College of Optometry is Cell Biology (BIOL 3622 (p. 114), Cell Biology, 3 credits)- this is not listed above either.

Gaining admission to Missouri's College of Optometry is a competitive process. Students selecting this 3+4 option should seek an initial interview with the Manager, Student and Special Services (and the Pre-Optometry Advisor) in the UMSL College of Optometry to insure that all prerequisites for the College of Optometry will be completed. In August following the completion of their second year of this 3+4 program, students may apply formally to the UMSL College of Optometry and arrange to take the Optometry Admissions Test (OAT) early in the fall of their third year. The OAT is offered through computer sites and may be scheduled almost at any time. After receipt of a completed application in the Fall Semester of the candidate's third year and depending on the OAT outcome, the applicant may be invited for a formal interview in the College of Optometry. Following the formal interview, candidates with a 3.0 or better grade point average in the science prerequisites for optometry and a score of 310 or better in the OAT exam may be accepted into the UMSL College of Optometry.

Competencies/Expectations/Outcomes that all students must demonstrate to complete the program successfully:

- 1. Knowledge and comprehension in areas of chemistry Graduates should have a foundation of knowledge in chemistry as outlined by the American Chemical Society Committee on Professional Training in their guide to Undergraduate Professional Education in Chemistry. In order to achieve the goals of any one of our chemistry degrees, knowledge is required from the related areas of introductory physics and calculus.
- Scientific problem-solving skills Graduates should understand valid scientific approaches to problem-solving and be able to design experiments to test a hypothesis.
- 3. Data analysis/quantitative skills Graduates should be able to draw valid conclusions from experimental data and observations. Graduates should be able to carry out statistical and linear regression analysis of data. Graduates should be able to evaluate the main possible sources of error in laboratory measurements.
- 4. Laboratory skills Graduates should be able to carry out the basic techniques of preparative and analytical chemistry. An appreciation of the basic aspects of chemical spectroscopy should be achieved. B.S. degree graduates should have developed an appreciation of the application of advanced/specialized instrumentation to solving chemical problems. Graduates should be able to keep accurate records of experiments. Graduates should be able to work effectively in the laboratory individually or as a part of a small team. Graduates should have an awareness of the basic aspects of safe laboratory practices.
- Communication skills Graduates should be able to communicate scientific ideas clearly both orally and in written form. This includes the effective presentation of quantitative data and of scientific concepts or procedures using diagrams and/or figures.

- Library/Information skills Graduates should be able to search for and retrieve information from scientific journals, databases, and handbooks, especially those widely used by professional chemists.
- 7. Computer/software skills Graduates should be proficient in the use of software widely used by practicing scientists, including word processors, scientific plotting and analysis software, spreadsheets, data acquisition software interfaced to commercial instruments, and simulation software.

Graduate Studies

Admission Requirements

Individuals with at least the equivalent of the B.A. degree in chemistry may be admitted to the Graduate School as candidates for the M.S. degree or as precandidates for the Ph.D. degree in chemistry. A student in the M.S. program may request to transfer to the Ph.D. program by petition to the department.

The department admissions committee considers applicants' grade point averages and normally requires above-average performance in all areas of chemistry as well as physics and mathematics, or other evidence of high aptitude for graduate work in chemistry. Applicants' GRE scores, letters of recommendation, and academic programs are also considered. In some cases the committee may require successful completion of undergraduate course work as a condition of enrollment as a regular student.

Students with bachelor's degrees in fields other than chemistry may be admitted to pursue graduate studies in chemistry, but they must make up background deficiencies, usually by taking undergraduate course work.

Financial Support

Teaching assistantships are available to qualified applicants. Research assistantships and fellowships are available for advanced students. For further information, contact the Graduate Studies Committee, Department of Chemistry and Biochemistry.

Preliminary Advisement

Students who have been admitted for graduate work in chemistry will be contacted by the Director of Graduate Studies in order to develop a tentative plan of study which takes into consideration the student's background and interests. Entering students are required to demonstrate proficiency at the undergraduate level in four areas of chemistry (biochemistry, organic, inorganic, physical, and analytical).

Proficiency may be demonstrated in one of the following ways:

- Outstanding performance in recent undergraduate course work.
- Satisfactory performance in standardized placement examinations.
 These examinations are given twice a year, approximately one week before the beginning of the fall and winter semesters.
- · Successful completion of assigned course work.

The ultimate choice of whether students may enroll in the M.S. or Ph.D. degree programs resides with the chemistry faculty.

Distribution Requirement

All graduate students (M.S. and Ph.D.) must fulfill the distribution requirements as described under "Doctoral Degree Requirements."

Master's Degree Requirements Master of Science in Chemistry

Candidates for the M.S. degree in chemistry must demonstrate proficiency in organic, inorganic, physical, and analytical chemistry within two years of initial enrollment.

A minimum of 30 hours is required, normally including 3 hours in CHEM 6897 (p. 114) Chemistry Colloquium. No more than 3 hours in CHEM 6897 (p. 114) may be applied toward the required minimum of 30 credit hours.

Master of Science in Chemistry with Thesis

Students selecting this option must be enrolled full-time for at least two consecutive semesters. During this time, students are expected to enroll in CHEM 6905 (p. 114), Graduate Research in Chemistry, and conduct their thesis research. A maximum of 12 hours of CHEM 6905 (p. 114) may be applied toward the required 30 hours. At least 9 hours must be at the 5000 level, excluding CHEM 6905 (p. 114). A maximum of 9 hours in 3000 level or above courses outside the department may be accepted if students receive prior approval of their advisers and the Director of Graduate Studies. Students are expected to follow all other general requirements of the Graduate School regarding master's degree and thesis requirements.

Master of Science without Thesis

Unlike the thesis option, students need not be enrolled full-time. Of the required 30 hours, 15 credits must be at the 5000 level. A maximum of 6 credits of CHEM 6905 (p. 114), Graduate Research in Chemistry, may be included in place of 4000 level courses. A maximum of 12 hours taken in 3000 level or above courses outside the department may be accepted with prior approval of the Director of Graduate Studies.

Doctoral Degree Requirements

Incoming doctoral students must demonstrate proficiency in biochemistry, organic, inorganic, physical, and analytical chemistry within one year of initial enrollment. A minimum of 60 hours is required, including research hours.

Distribution Requirement

Students must take chemistry courses for graduate credit at the 4000 and 5000 levels. Students may choose to concentrate the majority of their coursework in one of four areas (biochemistry, inorganic chemistry, organic chemistry, or physical chemistry). Students must complete at least 6 hours of chemistry coursework in one (or more) sub-disciplines(s) outside of their major emphasis area. The following courses may not be used to fulfill the distribution requirement:

CHEM 4212 (p. 114)	Instrumental Analysis	2
CHEM 4233 (p. 114)	Laboratory In Instrumental Analysis	2
CHEM 4302 (p. 114)	Survey Of Physical Chemistry With Applications To The Life Scienc	3
CHEM 4343 (p. 114)	Physical Chemistry Laboratory II	2
CHEM 4412 (p. 114)	Advanced Inorganic Chemistry	3

CHEM 4433 (p. Inorganic Chemistry Laboratory 2 114)

Qualifying Examinations

In addition to the requirements set forth by the Graduate School, each student seeking the Ph.D. degree must successfully complete a qualifying examination in his/her major area of specialization prior to advancement to candidacy. The format of the qualifying examination depends upon the student's major area of emphasis (biochemistry, inorganic, organic or physical). In general, the qualifying examination consists of either comprehensive written and/or oral examinations, usually administered near the end of the 4th semester, or a series of cumulative examinations given eight times a year. In the latter case, a student must pass a minimum of two cumulative examinations per year and eight cumulative examinations before the end of the 6th semester. At least six of these cumulative examinations must be in the student's major area of specialization. For more detailed information, contact the Director of Graduate Studies in the Department of Chemistry & Biochemistry.

Seminar Requirement

Students must present a seminar in their third year and during each subsequent year. The third year seminar may be the defense of the doctoral dissertation proposal. One of the seminars is for the purpose of describing dissertation research. Students must enroll in CHEM 6897 (p. 114), Chemistry Colloquium, each semester they are in residence.

Advancement to Candidacy

In addition to general Graduate School requirements for advancement to candidacy, students must complete the following:

1. 21 hours of nondissertation work.

114)

This may not inc	lude:	
CHEM 4212 (p. 114)	Instrumental Analysis	2
CHEM 4233 (p. 114)	Laboratory In Instrumental Analysis	2
CHEM 4302 (p. 114)	Survey Of Physical Chemistry With Applications To The Life Scienc	3
CHEM 4343 (p. 114)	Physical Chemistry Laboratory II	2
CHEM 4412 (p. 114)	Advanced Inorganic Chemistry	3
CHEM 4433 (p. 114)	Inorganic Chemistry Laboratory	2
CHEM 6196 (p. 114)	Advanced Reading In Chemistry	1
CHEM 6487 (p. 114)	Problem Seminar In Inorganic Chemistry	1
CHEM 6687 (p. 114)	Problem Seminar In Organic Chemistry	1-3
CHEM 6787 (p. 114)	Problem Seminar In Biochemistry	1
CHEM 6812 (p. 114)	Introduction To Graduate Study In Chemistry	1
CHEM 6822 (p. 114)	Introduction To Graduate Research In Chemistry	1
CHEM 6897 (p.	Chemistry Colloquium	1

but should include at least six credit hours of coursework outside of their major area of emphasis (see Distribution Requirement) Courses in areas other than chemistry may be included with prior departmental approval.

- Successfully pass a qualifying examination or cumulative examinations.
- Present at least one seminar to the department on the dissertation research.
- Participate in the undergraduate academic program as a teaching assistant for at least one semester.
- 5. Be in good standing.

Dissertation

Three copies of the dissertation must be submitted upon completion of the graduate research problem.

Probation and Dismissal

Students are dismissed from the Ph.D. program if they fail to pass their qualifying examination or otherwise fail to meet the academic and professional standards set forth by the Graduate School and the Department of Chemistry and Biochemistry.

Master of Science in Biochemistry and Biotechnology

The Department of Chemistry and Biochemistry, in cooperation with the Department of Biology, offers aMaster of Science degree in Biochemistry and Biotechnology (https://nextbulletin.umsl.edu/artsandsciences/biochemistryandbiotechnology/#graduatetext). Information about this degree program may be found at the Biochemistry & Biotechnology Programs Home Page. (http://www.umsl.edu/~biotech)

Courses

CHEM 1011 Chemistry In The Environment And Every Day Living: 3 semester hours

This course examines the role of chemistry in everyday life and in the environment, and is intended for students not pursuing scientific or engineering majors. Chemical principles are introduced to the extent necessary for understanding of issues, but this course does not provide the basis for further technical courses. Two hours of lecture per week; on alternate weeks, one hour of discussion or two hours of laboratory.

CHEM 1052 Chemistry For The Health Professions: 4 semester hours
An introduction to general, nuclear, structural organic, organic reactions
and biochemistry. This course is designed primarily for students in nursing
and related health professions, and should not be taken by students
majoring in the physical or biological sciences. Chemistry majors may
include neither CHEM 1052 or CHEM 1062 in the 120 hours required for
graduation. Four hours of lecture per week.

CHEM 1062 Organic & Biochem For The Health Professions: 2 semester hours

Prerequisites: Any college Chemistry course An introduction to organic reactions and biochemistry. CHEM 1062 is offered during the second half of the semester. Four hours of lecture per week.

CHEM 1081 Introductory Chemistry I-A: 3 semester hours

Prerequisites: MATH 1030 (or a score of 26 or higher on either the Math ACT or the Math Placement Test). This course is designed for students who want to have an in depth understanding of introductory concepts in Chemistry. CHEM 1081 covers the topics taught in the first half of CHEM 1111 but at a slower pace, thus allowing students time to fully integrate the concepts and thereby build a stronger foundation for their subsequent Chemistry courses. CHEM 1081 consists of the first half of CHEM 1111 (excluding laboratory experiments), whereas CHEM 1091 covers all the laboratory experiments and second half of lecture part of CHEM 1111. Three hours of lecture or workshop per week.

CHEM 1091 Introductory Chemistry IB: 3 semester hours

Prerequisites: CHEM 1081 and MATH 1035 (MATH 1035 may be taken concurrently). CHEM 1091 is the completion of CHEM 1111 for students who have completed CHEM 1081. The laboratory portion of this course will start at the beginning of the semester. The lecture part of the course starts in mid-semester and students join an ongoing CHEM 1111 class. Students who completed CHEM 1081 must complete CHEM 1091 to be considered as having completed the equivalent of CHEM 1111. Three hours of lecture and one and one half hours of workshop during the second half of the semester, and three hours of laboratory per week during the entire semester.

CHEM 1111 Introductory Chemistry I: 5 semester hours

Prerequisite: MATH 1030 (or a score of 26 or higher on either the Math ACT or the Missouri Math Placement Test) and MATH 1035 (MATH 1035 may be taken concurrently). Presents an introduction to the fundamental laws and theories of chemistry. Laboratory experiments are designed to demonstrate some aspects of qualitative and quantitative analysis and to develop skills in laboratory procedures. Chemistry majors may not include both CHEM 1011 and CHEM 1111 in the 120 hours required for graduation. Three hours of lecture, one and one-half hours of workshop, and three hours of laboratory per week.

CHEM 1121 Introductory Chemistry II: 5 semester hours

Prerequisite: CHEM 1111 or advanced placement. Lecture and laboratory are a continuation of CHEM 1111. Three hours of lecture, one and one-half hours of workshop and three hours laboratory per week.

CHEM 1134 Special Topics In Introductory Chemistry: 1-5 semester hours

Prerequisite: Consent of instructor. A lecture and/or laboratory course to assist transfer students to complete the equivalent of CHEM 1111 and CHEM 1121. Students enrolling in this course should contact the instructor prior to the first day of class for guidelines on course requirements, to choose a lab or workshop section, and to request enrollment in the course website.

CHEM 2223 Quantitative Analysis: 3 semester hours

Prerequisites: CHEM 1121 Principles and practice of elementary quantitative chemistry. The lecture treats descriptive statistics with emphasis on small samples; various types of competing equilibria pertaining to acid-base, complexometric, and potentiometric titrations; and an introduction to spectrophotometric processes. The laboratory provides exercises in titrimetric gravimetric, and spectrophotometric techniques. Both portions of the course deal with the analytical chemistry of environmentally-significant problems. Two hours of lecture and four and one-half hours of laboratory weekly.

CHEM 2612 Organic Chemistry I: 3 semester hours

Prerequisite: CHEM 1121 (may be taken concurrently). An introduction to the structure, properties, synthesis, and reactions of aliphatic and aromatic carbon compounds. Three hours of lecture per week.

CHEM 2622 Organic Chemistry II: 3 semester hours

Prerequisite: CHEM 2612. A systematic study of organic reactions and their mechanisms; organic synthetic methods. Three hours of lecture per week.

CHEM 2633 Organic Chemistry Laboratory: 2 semester hours

Prerequisite: CHEM 2612 An introduction to laboratory techniques and procedures of synthetic organic chemistry including analysis of organic compounds. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 3022 Introduction To Chemical Literature: 1 semester hour

Prerequisites: CHEM 2622 (2622 may be taken concurrently) and CHEM 3412. This course will familiarize the student with the literature of chemistry and its use. One hour of lecture per week.

CHEM 3302 Physical Chemistry For The Life Sciences: 3 semester hours

Prerequisites: CHEM 2612 and MATH 1800 or MATH 1100, and PHYSICS 1012 Principles and applications of physical chemistry appropriate to students pursuing degree programs in the life sciences. Topics will include thermodynamics, equilibria, kinetics, and spectroscopy. This course is intended for undergraduates seeking the B.S. degree in Biochemistry and Biotechnology and does not fulfill the physical chemistry required for other Chemistry B.A. and B.S. degree programs.

CHEM 3312 Physical Chemistry I: 3 semester hours

Prerequisites: CHEM 1121 and MATH 2000 (MATH 2000 may be taken concurrently), and PHYSICS 2111. Principles of physical chemistry, including thermodynamics, theory of gases, phase equilibria, kinetics, crystal structure, spectroscopy, and quantum mechanics. Three hours per week.

CHEM 3322 Physical Chemistry II: 3 semester hours

Prerquisite: CHEM 3312 and MATH 2000.Continuation of CHEM 3312. Three hours lecture per week.

CHEM 3333 Physical Chemistry Laboratory I: 2 semester hours

Prerequisites: CHEM 2223 and CHEM 3312 Experiments designed to illustrate principles introduced in CHEM 3312. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 3412 Basic Inorganic Chemistry: 2 semester hours

Prerequisite: CHEM 1121. This course reviews the principles of atomic structure and studies covalent and ionic bonding. Topics include properties of the elements and synthesis, reactions and bonding aspects of important main group and transition metal compounds. Two hours lecture per week.

CHEM 3643 Advanced Organic Chemistry Laboratory: 2 semester hours

Prerequisites: CHEM 3022 Identification of organic compounds by classical and spectroscopic methods; advanced techniques in synthesis and seperation of organic compounds. One hour of lecture and four and one-half hours of laboratory per week. Not for graduate credit.

CHEM 3905 Chemical Research: 1-10 semester hours

Prerequisite: Consent of instructor. Independent laboratory and library study, in conjunction with faculty member, of fundamental problems in chemistry. A written report describing the research is required.

CHEM 4212 Instrumental Analysis: 2 semester hours

Prerequisites: CHEM 3322 Principles and applications of modern methods of instrumental analysis for analytical chemistry measurements. Topics will be selected from the areas of electrochemistry, absorption and emission spectroscopy, chromatography, mass spectometry, surface analysis, and nuclear magnetic resonance. Two hours of lecture per week.

CHEM 4233 Laboratory In Instrumental Analysis: 2 semester hours

Prerequisites: CHEM 4212, CHEM 3333 Experiments designed to illustrate the principles and practices of instrumental analysis, involving the use of modern instrumentation in analytical chemistry applications. One hour of discussion and four and one-half hours of laboratory per week.

CHEM 4302 Survey Of Physical Chemistry With Applications To The Life Scienc: 3 semester hours

Prerequisites: CHEM 2612 and MATH 1800 or MATH 1100, and PHYSICS 1012. Principles of physical chemistry with applications to the life sciences. Topics will include thermodynamics, equilibria, kinetics, and spectroscopy. This course will be taught simultaneously with CHEM 3302, but students in CHEM 4302 will have additional assignments or projects. No student may receive credit for both CHEM 3302 and CHEM 4302.

CHEM 4343 Physical Chemistry Laboratory II: 2 semester hours

Prerequisites: CHEM 3322 (may be taken concurrently) and CHEM 3333. Experiments designed to illustrate principles introduced in CHEM 2322. One hour of lecture and four and one-half hours of laboratory per week. Not for graduate credit.

CHEM 4412 Advanced Inorganic Chemistry: 3 semester hours

Prerequisites: CHEM 3322 (may be taken concurrently), CHEM 3412, and CHEM 2622 An introduction to the chemistry of the elements, including atomic and molecular structure, acids and bases, the chemistry of the solid state, and main group and transition metal chemistry. Three hours of lecture per week.

CHEM 4433 Inorganic Chemistry Laboratory: 2 semester hours

Prerequisites: CHEM 3333, CHEM 3643, and CHEM 4412 (CHEM 3643 may be taken concurrently) The more sophisticated techniques of physical and analytical chemistry will be used to study inorganic compounds and their reactions. One hours of lecture and four and one half hours of laboratory per week. Not for graduate credit.

CHEM 4652 Spectroscopic Identification Of Organic Compounds: 3 semester hours

Prerequisites: CHEM 3643 An applied approach to the use of spectroscopic techniques in organic chemistry. Topics to include integrated applications of infrared and Raman spectroscopy, nuclear magnetic resonance (13C and 1H, cw and pulsed) and mass spectroscopy for the purpose of elucidating the structure of organic compounds. Three hours of lecture per week.

CHEM 4712 Biochemistry: 3 semester hours

Same as BIOL 4712. Prerequisites: CHEM 2612 and either BIOL 1811 or CHEM 2622. Examines the chemistry and function of cell constituents, and the interaction and conversions of intracellular substances. Students may not receive credit for both BIOL 4712 and CHEM 4712.

CHEM 4722 Advanced Biochemistry: 3 semester hours

Prerequisite: CHEM 4712. Selected advanced topics in the chemistry of life processes. Three hours lecture per week.

CHEM 4733 Biochemistry Laboratory: 2 semester hours

Prerequisites: CHEM 4712 (may be taken concurrently), and CHEM 2223.Laboratory study of biochemical processes in cellular and subcellular systems with emphasis on the isolation and purification of proteins (enzymes) and the characterization of catalytic properties. One hour of lecture and four and one-half hours of laboratory per week.

CHEM 4772 Physical Biochemistry: 3 semester hours

Prerequisites: CHEM 3312 or CHEM 4712/ BIOL 4712 Designed to acquaint students with concepts and methods in biophysical chemistry. Topics that will be discussed include protein and DNA structures, forces involved in protein folding and conformational stability, protein-DNA interactions, methods for characterization and separation of macromolecules, electron transfer, and biological spectroscopy. Three hours of lecture per week.

CHEM 4797 Biochemistry and Biotechnology Seminar: 1 semester hour

Same as BIOL 4797. Prerequisites: Senior standing in the Biochemistry and Biotechnology program. This course will focus on selected publications related to biochemistry and biotechnology from both refereed journals and news sources. Students are expected to participate in discussions and to prepare oral and written presentations. Completion of the Major Field Achievement Test in Biochemistry & Biotechnology is a course requirement. May not be taken for graduate credit.

CHEM 4814 Special Topics In Chemistry: 1-10 semester hours A reading and seminar course in selected advanced topics.

CHEM 4897 Seminar: 1 semester hour

Prerequisites: CHEM 3022 and senior standing Presentation of papers by students, faculty, and invited speakers. Chemistry majors must enroll during the semester in which they intend to graduate. Completion of a comprehensive examination during one of the semesters is a course requirement One hour of lecture and one hour of discussion per week.

CHEM 5394 Special Topics In Physical Chemistry: 1-10 semester hours

Prerequisite: Consent of instructor. Selected topics in physical chemistry; may be taken more than once for credit.

CHEM 5396 Directed Readings in Physical Chemistry: 1-3 semester hours

Prerequisites: Consent of Physical Chemistry Faculty. A series of readings of monographs, review papers, and/or research publications for a particular student directed at providing that student with appropriate background preparation for experimental or theoretical Ph.D.-level research in an area of physical chemistry. The particular readings will be selected by the physical chemistry staff. Potential topics include but are not limited to advances in Electrochemistry, Surface Chemistry, Thermodynamics, Molecular Spectroscopy, Quantitative Absorption Spectroscopy using new Methodologies, Applications of Group Theory in Spectroscopy, and Computational Chemistry. Assessment may be in various forms including by assignments and seminars. Students may take this course more than once for credit through the particular topic must be different in each case.

CHEM 5422 Coordination Chemistry: 3 semester hours

Prerequisite: CHEM 4412 or an equivalent course. Chemistry of the coordination compounds of the transition metals including such topics as kinetics and mechanisms of reaction, stereochemistry, ligand field theory, stability and electronic spectra. Three hours of lecture per week.

CHEM 5462 Organometallic Chemistry Of The Transition Elements: 3 semester hours

Prerequisites: CHEM 4412 or an equivalent course. A study of transition metal compounds containing metal-carbon bonds and related metalelement bonds, including their synthesis, structure and bonding, and reactions. Applications in organic synthesis and catalysis will also be presented. Three hours of lecture per week.

CHEM 5494 Special Topics In Inorganic Chemistry: 1-3 semester hours

Prerequisite: Consent of instructor. Selected topics in organic chemistry; may be taken more than once for credit.

CHEM 5602 Advanced Organic Chemistry I - Physical Organic: 3 semester hours

Prerequisites: CHEM 2622 and CHEM 3322 Mechanism and theory of organic chemistry. Topics to include kinetics, transition state theory, reaction intermediates, and stereochemical analysis. Three hours of lecture per week.

CHEM 5612 Advanced Organic Chemistry II - Reactions And Synthesis: 3 semester hours

Prerequisite: CHEM 2622 This course will examine a variety of organic transformations typically utilized in organic synthesis. Topics will include carbon-carbon bond formation, pericyclic reactions, oxidation, reduction, and functional group interconversions. Mechanism and stereochemistry will be emphasized. Three hours of lecture per week.

CHEM 5694 Special Topics In Organic Chemistry: 3 semester hours Prerequisite: Consent of Instructor Advanced topics of special current

interest. May be taken more than once for credit. Topics that may be offered include: Methods in Organic Synthesis, Organometallics in Organic Synthesis, Topics in Bioorganic Chemistry, Organic thermochemistry, Natural Products Chemistry, Stereochemistry, Photochemistry, Heterocyclic Chemistry, Medicinal Chemistry.

CHEM 5774 Bioinformatics: 3 semester hours

Prerequisites: CHEM 4712 or equivalent. This course introduces modern approaches in bioinformatics and computational biochemistry. Topics to be covered include a survey of biological databases, predictions from protein and DNA sequences, sequence alignment and sequence database searches, building phylogenetic trees, three-dimensional protein structure prediction, and molecular modeling and simulation.

CHEM 5794 Special Topics In Biochemistry: 3 semester hours Prerequisites: Consent of instructor Selected topics in biochemistry. May

be taken more than once for credit.

CHEM 6196 Advanced Reading In Chemistry: 1 semester hour

Prerequisite: Admission to the Ph.D. program. Reading and examinations in the sub-disciplines of chemistry. Enrollment must begin after completion of any course deficiencies.

CHEM 6487 Problem Seminar In Inorganic Chemistry: 1 semester hour

Prerequisite: Consent of the inorganic chemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. Ph.D. students may take more than once for credit. Up to three credits may be applied to the M.S. degree program.

CHEM 6687 Problem Seminar In Organic Chemistry: 1-3 semester

Prerequisite: Consent of the organic chemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. PH.D. Students may take more than once for credit. Up to three credits may be applied to the M.S. degree programs.

CHEM 6787 Problem Seminar In Biochemistry: 1 semester hour

Prerequisite: Consent of the biochemistry staff. Problems from the current literature, presentations and discussions by faculty, students and visiting scientists. Ph.D. students may take more than once for credit. Up to three credits may be applied to the M.S. degree program.

CHEM 6812 Introduction To Graduate Study In Chemistry: 1 semester hour

Prerequisite: Consent of Graduate Advisor. Topics to be covered include: techniques of teaching of chemistry in colleges and universities, methods of instruction and evaluation; role and responsibilities of the Graduate Teaching Assistant in laboratory instruction; safety in the undergraduate laboratory, safety practices, emergency procedures; selection of a research project and thesis advisor.

CHEM 6822 Introduction To Graduate Research In Chemistry: 1 semester hour

Prerequisite: Consent of instructor. Topics to include: safety in the research laboratory, safety practices, emergency procedures, hazardous materials, waste disposal, radiation safety; research ethics, chemistry information retrieval, computer assisted information retrieval, types of databases, searching bibliographic data bases.

CHEM 6832 Strategies for Independent Research Proposal Development: 1 semester hour

Prerequisites: CHEM 6822 and Consent of Graduate Advisor. Topics include: strategies for identification of research topics in chemistry and biochemistry, techniques for database literature search, critical analysis of existing research knowledge, introduction to standard grant proposal formats, technical aspects in preparation of a research plan and accompanying sections, use of bibliographical software, and overview and practice of the peer review process.

CHEM 6897 Chemistry Colloquium: 1 semester hour

Presentation of papers by students, faculty and invited speakers. One hour per week.

CHEM 6905 Graduate Research In Chemistry: 1-10 semester hours

Criminology and Criminal Justice

General Information

Degrees and Areas of Concentration

The department offers courses leading to the Bachelor of Science, the Master of Arts, and Ph.D. in criminology and criminal justice.

Cooperative Programs

Faculty members in the criminology and criminal justice department hold appointments as fellows in the Center for International Studies and the Women's and Gender Studies Program. Workshops, projects, credit courses, and other social services are brought to the criminal justice community.

Internships

Majors are strongly encouraged to participate in CRIMIN 3280 Internship in Criminology and Criminal Justice, during their junior or senior year. The internship affords students the opportunity to gain experience in a criminal justice agency under the joint supervision of agency personnel and criminology and criminal justice faculty.

Minor in Criminology and Criminal Justice

The minor gives recognition to those students from other major areas who find that criminology and criminal justice courses fit their academic or professional needs and/or interests.

Chair's List

Each year, faculty members nominate undergraduates who have done outstanding work in one or more of their courses to the department's Chair's List. In addition to being nominated by a faculty member, the student must meet a cumulative grade-point average threshold for placement on the Chair's List. The list is featured on the department's website, and the Dean of Arts and Sciences is notified of their accomplishment.

Career Outlook

The orientation of the criminology and criminal justice faculty and of the degree program prepares the graduate to work professionally for local, state, and federal agencies concerned with maintaining public safety by the prevention of crime and apprehension and rehabilitation of offenders. The B.S. in criminology and criminal justice is also advantageous for careers with various social agencies, especially those connected with the juvenile court system, probation and parole, and local police. Many students use the B.S. in criminology and criminal justice as preparation for law school.

The interdisciplinary curricula unify a body of knowledge from criminology, social science, law, public administration, and corrections, and provide the student with an understanding of the assumptions, values, and processes of the system of justice. Many prelaw students choose criminology and criminal justice as an undergraduate major because of the excellent preparation offered for law school. An internship program is offered for college credit. The liaison, supervision, and experience with public agencies that form an integral part of this program help the student arrive at a career decision.

Undergraduate Studies General Education Requirements

Majors must satisfy the university and college general education requirements (p. 28). Courses used to fulfill the social science or state requirement may not be taken from courses in the major. Foreign language proficiency is not required, although students are encouraged to take foreign language courses. Majors may not take the following courses on a satisfactory/unsatisfactory basis: criminology and criminal justice courses; SOC 3220 (p. 124), Quantitative Techniques in Sociology; or SOC 3230 (p. 124), Research Methods. Additionally, substitutions approved by departmental advisers for these courses may not be taken on a satisfactory/ unsatisfactory basis.

Degree Requirements

Courses used to fulfill the social science or state requirements may not be taken from courses in the major. Students may register for 3000-5000 level courses only after completing ENGL 3100 (p. 124) (Advanced Expository Writing).

Students may register for 3000-5000 level courses only after prerequisites have been satisfied or after obtaining a signature from the adviser in criminology and criminal justice or consent of the instructor.

Criminology majors may not take course numbers 1100, 2260, or 3345 offered through UM-Independent Studies to fulfill degree requirements in the major.

Expected Learning Outcomes

- Acquire basic knowledge of the theories, methods and substance of issues in criminology and criminal justice.
- Develop critical thinking skills through the application of criminological theory and social science research methods.
- Develop fundamental understanding of interdisciplinary underpinnings (e.g., from sociology, psychology, political science, economics) of criminology and criminal justice issues and policies.
- Acquire knowledge about the structure and functioning of the fundamental institutions (e.g., legislatures, police, punishment, supervisory) that are part of criminal justice systems.
- Acquire understanding of the role of research and its application for informing policies about criminal justice issues.

Core Curriculum

Bachelor of Science in Criminology and Criminal Justice candidates must complete the core curriculum listed below:

Core Curriculum

The following courses in criminology and criminal justice are required: 2			
	CRIMIN 1100 (p. 124)	Introduction To Criminology And Criminal Justice	
	CRIMIN 1110 (p. 124)	Theories Of Crime	
	CRIMIN 1120 (p. 124)	Criminal Law	
	CRIMIN 2130 (p. 124)	Criminal Justice Policy	
	CRIMIN 2210 (p. 124)	Research Methods In Criminology And Criminal Justice	
	CRIMIN 2220 (p. 124)	Statistical Analysis In Criminology And Criminal Justice	
	CRIMIN 4390 (p. 124)	Seminar In Criminology And Criminal Justice	
S	elect one of the	following:	3
	CRIMIN 2240 (p. 124)	Policing	
	CRIMIN 2250 (p. 124)	Courts	
	CRIMIN 2260 (p. 124)	Corrections	
	elect one of the stice:	following courses in Criminology and Criminal	3
	CRIMIN 3305 (p. 124)	Comparative Criminology and Criminal Justice	
	CRIMIN 4325 (p. 124)	Gender, Crime, And Justice	
	CRIMIN 4330 (p. 124)	Violence Against Women	
	CRIMIN 4340 (p. 124)	Race, Crime, And Justice	
S	elect three addit	ional courses at the 3000, 4000, or 5000 level:	9
	CRIMIN 3043 (p. 124)	History Of Crime And Justice	

CRIMIN 3230 Crime Prevention

(p. 124)

CRIMIN 3270 (p. 124)	Juvenile Justice And Delinquency	
CRIMIN 3305 (p. 124)	Comparative Criminology and Criminal Justice	
CRIMIN 3310 (p. 124)	Computers In Criminal Justice	
CRIMIN 3320 (p. 124)	The Death Penalty	
CRIMIN 3330 (p. 124)	White Collar Crime	
CRIMIN 3345 (p. 124)	Rights Of The Offender	
CRIMIN 4300 (p. 124)	Communities And Crime	
CRIMIN 4320 (p. 124)	Forms Of Criminal Behavior	
CRIMIN 4325 (p. 124)	Gender, Crime, And Justice	
CRIMIN 4330 (p. 124)	Violence Against Women	
CRIMIN 4335 (p. 124)	Probation And Parole	
CRIMIN 4340 (p. 124)	Race, Crime, And Justice	
CRIMIN 4350 (p. 124)	Victimology	
CRIMIN 4380 (p. 124)	Special Topics In Criminology And Criminal Justice	
Elective Courses	3	
CRIMIN 1150 (p. 124)	Violence In America	3
CRIMIN 2180 (p. 124)	Alcohol, Drugs And Society	3
CRIMIN 2251 (p. 124)	Youth Gangs	3
CRIMIN 3280 (p. 124)	Internship In Criminology And Criminal Justice	3
CRIMIN 3290 (p. 124)	Special Readings	1-6
Total Hours		50-5

Candidates must earn a minimum grade of (C-) in the following courses: CRIMIN 2220 (p. 124) Statistical Analysis in Criminology and Criminal Justice, and CRIMIN 4390 (p. 124) Seminar in Criminology and Criminal Justice.

Candidates must also have a cumulative grade point average of 2.0 or better in the major.

Requirements for the Minor

The minor has been designed to ground students in the basics of criminology and criminal justice.

All minor candidates must take:		
CRIMIN 1100	Introduction To Criminology And Criminal Justice	
(p. 124)		
The candidate mu	ist then select two of the following:	6

Total Hours		15
	then complete 6 hours of criminology and criminal ork at the 2000 level or above.	6
CRIMIN 2130 (p. 124)	Criminal Justice Policy	
CRIMIN 1120 (p. 124)	Criminal Law	
CRIMIN 1110 (p. 124)	Theories Of Crime	

If used for the minor, candidates must earn a minimum grade of (C-) in the following courses: CRIMIN 2220 (p. 124) Statistical Analysis in Criminology and Criminal Justice, and CRIMIN 4390 (p. 124) Seminar in Criminology and Criminal Justice

Candidates must also have a cumulative grade point average of 2.0 or better in the minor. None of the courses may be taken on a satisfactory/ unsatisfactory (s/u) basis.

Graduate Studies

Master of Arts in Criminology and Criminal Justice

The department offers a Master of Arts degree in Criminology and Criminal Justice, which provides students with advanced theoretical and methodological training for research and management careers in criminal justice.

Admission Requirements

The minimum GPA for regular admission to graduate study is 3.0 on a 4-point scale and students are expected to begin their course of study in the Fall semester. Admission is competitive.

Degree Requirements

The M.A. in Criminology and Criminal Justice requires the completion of 33 credit hours, at least 21 of which are required to be in courses housed in the Department of Criminology and Criminal Justice. 12 of these hours represent the core of the curriculum Students may choose between a thesis and nonthesis course of study. Students whose cumulative GPAs fall below 3.0 after 9 or more hours of work will be placed on probation and given one semester to raise their cumulative GPAs to at least the 3.0 threshold.

Expected Learning Outcomes

- Develop a comprehensive understanding of the theories, methods and substance of issues in criminology and criminal justice and demonstrate an ability to synthesize knowledge in these areas.
- Develop a comprehensive understanding of interdisciplinary underpinnings (e.g., from sociology, psychology, political science, economics) of criminology and criminal justice issues and policies.
- Develop critical thinking and communication skills through the application of criminological theory and social science research methods.
- Develop a comprehensive understanding of the structure and functioning of the fundamental institutions (e.g., legislatures, police, punishment, supervisory) that are part of criminal justice systems.
- Develop comprehensive understanding of the role of research and its application for informing policies about criminal justice issues.

Plan of Study

- Required Coursework (12 hours)
- CRIMIN 5415 (p. Foundations Of Criminological Theory (core) 124)
 CRIMIN 6400 (p. Proseminar (core) 3 124)
 CRIMIN 6405 (p. Methods (core) 3 124)
 CRIMIN 6410 (p. Statistical Applications In Criminology And 124)
 Criminal Justice (core)
- Three additional Criminology and Criminal Justice seminars at the 6000 level (9; non-core)
- · Electives (12 hours)

Twelve elective hours of coursework are required; some or all of these credits may be earned in Criminology and Criminal Justice 6000 level seminars not counted toward the 21 hour requirement. Students may take a maximum of two 4000-level courses in partial fulfillment of this requirement but they must have the prior approval of the Graduate Committee. All electives taken outside the College of Arts and Sciences also must receive prior approval of the Graduate Committee.

Transfer Courses

Transfer courses are evaluated for acceptance on a case-by-case basis subject to the rules and regulations of the Graduate School. A maximum of 11 credit hours earned at other institutions can be credited toward the UMSL M.A. degree in Criminology and Criminal Justice.

Ph.D. Program in Criminology and Criminal Justice

Eligibility

Undergraduate applicants must have a baccalaureate degree or expect one by the end of the academic year in which they apply. Applicants must have a grade point average of 3.0 or greater (on a scale of A = 4.0) for the last 60 hours of undergraduate work. Admission is competitive.

Graduate applicants who have or will have a master's degree must have a grade point average of 3.0 or greater (on a scale of A = 4.0) for their graduate course work.

Application

To consider an applicant for admission, the Department of Criminology and Criminal Justice must have transcripts, three letters of recommendations, GRE scores and a writing sample. Applicants with master's degrees should include a chapter of their thesis. International students whose native language is not English are required to submit scores from the TOEFL examination.

Amount of Course Work

Sixty post-baccalaureate hours of graduate work are required for the Ph.D. More than half of these hours must be completed in residence. Twelve credit hours of dissertation research (CRIMIN 7499 (p. 124)) are required. Students may enroll for dissertation credits (CRIMIN 7499 (p. 124)) only when all other degree requirements have been completed.

Required courses for the Ph.D. are:

33

CRIMIN 5415 Foundations Of Criminological Theory (p. 124)

	CRIMIN 6400 (p. 124)	Proseminar	
	CRIMIN 6405 (p. 124)	Methods	
	CRIMIN 6410 (p. 124)	Statistical Applications In Criminology And Criminal Justice	
	CRIMIN 6420 (p. 124)	Contemporary Criminal Theories	
	CRIMIN 6440 (p. 124)	Nature Of Crime	
	CRIMIN 6450 (p. 124)	Criminal Justice Process And Policy	
	CRIMIN 6465 (p. 124)	Qualitative Research Design	
	CRIMIN 6470 (p. 124)	Quantitative Research Design	
	CRIMIN 6471 (p. 124)	Evaluating Criminal Justice Interventions	
	CRIMIN 6480 (p. 124)	Multivariate Statistics In Criminology	
S	tudents are also	required to select three of the following:	9
	CRIMIN 5533 (p. 124)	Philosophy Of Law	
	CRIMIN 6441 (p. 124)	Juvenile Delinquency	
	CRIMIN 6442 (p. 124)	Communities And Crime	
	CRIMIN 6443 (p. 124)	Violent Crime	
	CRIMIN 6445 (p. 124)	Property Crime	
	CRIMIN 6446 (p. 124)	Sex Crime	
	CRIMIN 6448 (p. 124)	Victimization	
	CRIMIN 6452 (p. 124)	The Police	
	CRIMIN 6454 (p. 124)	Corrections	
_	-1-111		

Total Hours 42

Additional courses beyond the above requirements are taken as elective courses. These courses may be at the 5000 level. Students are also encouraged to take courses outside the Department of Criminology and Criminal Justice.

Qualifying Examination

Graduate students in the Ph.D. program do not become recognized as Ph.D. candidates until they have passed the qualifying examination. The goals of the comprehensive examination are to assess the student's familiarity with substantive literature, theory and methods of criminology and criminal justice and to evaluate the student's intellectual imagination and ability to apply knowledge to broad criminological questions.

Further information about the qualifying exam is available from the department.

The Dissertation

The dissertation is required of all Ph.D. candidates and demonstrates the student's scholarly expertise. The dissertation process formally begins when all other requirements of the Ph.D. program have been met. The dissertation committee assists in selecting and developing the research problem and evaluates the student's work on that problem.

Courses

CRIMIN 1100 Introduction To Criminology And Criminal Justice: 3 semester hours

Introduction to the basic concepts and approaches in the study of criminology and criminal justice. The major components of the criminal justice system are examined.

CRIMIN 1110 Theories Of Crime: 3 semester hours

Prerequisite: CRIMIN 1100 Introduction to major theoretical approaches to the study of crime and justice.

CRIMIN 1120 Criminal Law: 3 semester hours

Prerequisite: CRIMIN 1100. Analysis of substantive criminal law, evidence and judicial procedure.

CRIMIN 1150 Violence In America: 3 semester hours

Prerequisites: CRIMIN 1100 or consent of instructor. Overview of patterns and correlates of violence in America. Emphasis on the variety of forms of violent crimes, such as murder, assault, robbery, rape, and gang violence. Includes an examination of violence as a response to lawbreaking.

CRIMIN 1200 Foundations Of Law: An Introduction To Legal Studies: 3 semester hours

Same as POL SCI 1200. As a broad liberal-arts approach to the study of law, this course is designed to familiarize students with legal ideas, legal reasoning, and legal processes. It also provides comparative and historical perspectives on law that will help explain legal diversity and legal change. Finally, it offers opportunities to explore some of the persistent issues in law and legal theory: for example, issues about the sources of law, the responsibilities of the legal profession, or the relative merits of the adversary system.

CRIMIN 2130 Criminal Justice Policy: 3 semester hours

Prerequisite: CRIMIN 1100 Introduction to criminal justice policy making, planning and implementation.

CRIMIN 2180 Alcohol, Drugs And Society: 3 semester hours

Same as SOC 2180. Prerequisite: SOC 1010 or PSYCH 1003. This course examines the medical, legal and social aspects of alcohol and drug use. Medical aspects considered include treatment approaches and the role of Physicians in controlling such behavior. In the legal realm, past and present alcohol and drug laws are explored. Cultural and social influences on alcohol and drug use are discussed.

CRIMIN 2210 Research Methods In Criminology And Criminal Justice: 3 semester hours

Prerequisite: CRIMIN 1100. Examination of basic methods of research design, measurement and data collection in criminology and criminal justice.

CRIMIN 2220 Statistical Analysis In Criminology And Criminal Justice: 4 semester hours

Prerequisites: CRIMIN 2210 and the university math proficiency requirement. An introduction to techniques of quantitative data analysis. Both descriptive and inferential statistics are applied to problems in criminology and criminal justice. Includes a one hour lab. Courses with a CRIMIN 2220 prerequisite require a minimum grade of "C" to be earned by the student in this course.

CRIMIN 2226 Law, Politics and Society: 3 semester hours

Same as POL SCI 2260. Prerequisite: POL SCI 1100 or POL SCI 1200 or consent of instructor. This course examines the ways in which law in America connects with politics and society. The course will cover the litigation process, access to the courts, how and why individuals and groups bring litigation to pursue political and policy goals, and how lawyers, judges and other political actors use law to solve policy problems. Attention will be placed on current legal policy issues facing American society.

CRIMIN 2240 Policing: 3 semester hours

Prerequisite: CRIMIN 1100 Overview of current and historical perspectives on the function of American policing. Emphasis on the management of police organizations and relationships with the community.

CRIMIN 2250 Courts: 3 semester hours

Prerequisite: CRIMIN 1100. This course provides an overview of current and historical perspectives on the function of the American courts. Emphasis on the dynamics of courthouse justice, with special attention placed on the roles of the prosecutors, judges, defense attorneys, defendants, victims, and jurors regarding the decisions that impact the adjudication process.

CRIMIN 2251 Youth Gangs: 3 semester hours

Prerequisites: CRIMIN 1100 or consent of instructor. This course provides an overview of research and policy concerning youth gangs. Definitional and methodological issues will be examined, along with both qualitative and quantitative research. Topics include: the causes of gangs and gang involvement; and variations by race, gender, time period, and geography.

CRIMIN 2252 Philosophical Foundations Of Criminal Justice: 3 semester hours

CRIMIN 2260 Corrections: 3 semester hours

Prerequisite: CRIMIN 1100. Examination of correctional philosophies and practices. Emphasis on the history of corrections, the formal and informal organization of correctional facilities, inmate rights, and correctional alternatives.

CRIMIN 3043 History Of Crime And Justice: 3 semester hours

Same as HIST 3043. Prequisites: Junior standing or consent of instructor. The analysis development, and change in philosophies and responses to crime. Emphasis on major forms and definitions of crime, the emergence of modern policing, the birth of the prison and the juvenile court.

CRIMIN 3209 Forensic Anthropology: 4 semester hours

Same as ANTHRO 3209. Prerequisites: ANTHRO 1005 or BIOL 1102 or consent of instructor. Students learn basic human dental and skeletal anatomy and the methods used by biological anthropologists and archaeologists to collect and analyze human skeletal remains, including how to age and sex skeletal remains, identify ethnic markers, determine stature and handedness, and identify the presence of trauma and/or pathology. Also covers the role of the forensic anthropologist in crime scene investigations and human rights issues. In the weekly lab section students will have an opportunity for hands-on application of techniques to skeletal remains.

CRIMIN 3230 Crime Prevention: 3 semester hours

Prerequisites: Junior standing, CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. Examination of situational, social, and legislative approaches to the prevention of crime and delinquency. Emphasis on theories, implementation, and consequences of these approaches.

CRIMIN 3270 Juvenile Justice And Delinquency: 3 semester hours Prerequisite: Junior Standing, CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. Examination of formal and informal responses to juvenile delinquency. Emphasis on theories of delinquency and the decision-making processes of police, court and probation officials.

CRIMIN 3280 Internship In Criminology And Criminal Justice: 3 semester hours

Prerequisite: Junior standing. Internship under faculty supervision in criminal justice setting. May be repeated for one credit.

CRIMIN 3290 Special Readings: 1-6 semester hours

Prerequisite: Consent of instructor. Individualized study, under regular faculty supervision, designed to meet particular educational needs of selected students.

CRIMIN 3305 Comparative Criminology and Criminal Justice: 3 semester hours

Prerequisites: CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. Analysis of crime and criminal justice systems in selected cultures. Emphasis on the ways in which these cultures define and respond to criminal behavior. Fulfills CRIMIN diversity requirement.

CRIMIN 3310 Computers In Criminal Justice: 3 semester hours

Prerequisites: CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. Use of computers, data base systems, and software applications in research and professional practice.

CRIMIN 3320 The Death Penalty: 3 semester hours

Prerequisite: CRIMIN 1100 An examination of the history, application, and attitudes toward the death penalty.

CRIMIN 3330 White Collar Crime: 3 semester hours

Prerequisites: Junior Standing, CRIMIN 1120, CRIMIN 2130, CRIMIN 2220, and ENGL 3100, or consent of instructor. This course examines the physical and financial harm caused by crimes committed by corporations and business employees. Theoretical and empirical perspectives will be examined. Topics include: definitional issues and ethics; public perceptions; social, political and economic impact; and legal decision-making.

CRIMIN 3345 Rights Of The Offender: 3 semester hours

Prerequisites: CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. Analysis of the objectives of criminal law regarding the rights of persons suspected or convicted of crime. Emphasis on rights regarding the police, the court, and in correctional settings.

CRIMIN 4300 Communities And Crime: 3 semester hours

Same as SOC 4300. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. Analysis of the sources, consequences, and control of crime within communities. Emphasis on social and ecological theories of crime, and on population instability, family structure, and the concentration of poverty as causes of crime.

CRIMIN 4320 Forms Of Criminal Behavior: 3 semester hours

Same as SOC 4320. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. Examination of major types of criminal behavior including violent, property, public order, and organizational offenses. Emphasis on theories of and responses to these crimes.

CRIMIN 4325 Gender, Crime, And Justice: 3 semester hours

Same as SOC 4325 and GS 4325. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220 and ENGL 3100 or consent of instructor. Analysis of the role of gender in crime and in the justice system. Emphasis on gender differences in crime commission, criminal processing, and the employment of women in criminal justice agencies. Fulfills CRIMIN diversity requirement.

CRIMIN 4330 Violence Against Women: 3 semester hours

Same as GS 4330. Prerequisites: Junior Standing, CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. This course examines the nature, extent, causes and consequences of various types of violence against women, including rape, sexual assault, stalking, and intimate partner violence. Criminal justice policy and practice regarding violence against women are also examined.

CRIMIN 4335 Probation And Parole: 3 semester hours

Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, CRIMIN 2260, and ENGL 3100, or consent of instructor. Analysis of alternatives to incarceration and postincarceration supervision. emphasis on diversion, restitution, and community reintegration.

CRIMIN 4340 Race, Crime, And Justice: 3 semester hours

Same as SOC 4340. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. Analysis of the involvement of racial minorities in crime and the criminal justice system. Emphasis on group differences in offending, processing, victimization, and employment in criminal justice agencies. Fulfills CRIMIN diversity requirement.

CRIMIN 4350 Victimology: 3 semester hours

Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. Analysis of major perspectives on victimization. Emphasis on patterns of victimization, the role of victims in the generation of crime, and the experience of the victim in the criminal justice system.

CRIMIN 4380 Special Topics In Criminology And Criminal Justice: 3 semester hours

Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100 or consent of instructor. In-depth study of a selected topic in criminology and criminal justice.

CRIMIN 4390 Seminar In Criminology And Criminal Justice: 3 semester hours

Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. In this capstone course, students demonstrate the ability to work independently, integrating theory and research in criminology and criminal justice in a major paper supervised by the instructor.

CRIMIN 4487 Philosophy Of Law: 3 semester hours

Same as PHIL 4920. Prerequisites: CRIMIN 1100 and 3 hours of philosophy and/or consent of instructor. An intensive study of recent philosophical debate about such issues as the authority of law, legal equality and justice, legal responsibility, self-determination and privacy, and legal punishment.

CRIMIN 5415 Foundations Of Criminological Theory: 3 semester hours

Prerequisites: Graduate standing and consent of instructor. Examination of the history of criminological thought incorporating the major works of such theorists as Bentham, Beccaria, Marx, Durkheim, Lombroso, Sutherland and Merton.

CRIMIN 5533 Philosophy Of Law: 3 semester hours

Same as PHIL 5533. Prerequisite: Graduate standing or consent of instructor. Examination of origins of law and the basis for legal obligation. Specific consideration of the justification of punishment, morality and law, and legal reasoning.

CRIMIN 6400 Proseminar: 3 semester hours

Prerequisite: Graduate standing. (Must be taken in the first Semester). A critical examination of theoretical, methodological and policy issues in criminology and criminal justice. Focus is on the nature of crime, policing, pretrial processes, adjudication and corrections.

CRIMIN 6405 Methods: 3 semester hours

Prerequisite: Graduate standing and consent of instructor. Examination of basic methods for research design and data collection. Topics include participant observation and interviewing, survey research, aggregate data analysis, and experimental design.

CRIMIN 6410 Statistical Applications In Criminology And Criminal Justice: 3 semester hours

Prerequisite: CRIMIN 6405 Examination of elementary principles of quantitative analysis and their application to crime and justice problems. Topics include univariate, bivariate and multivariate procedures for discrete and continous data, and a comprehensive introduction to ordinary least squares regression.

CRIMIN 6420 Contemporary Criminal Theories: 3 semester hours

Prerequisite: CRIMIN 5415. Examination of contemporary explanations of crime and criminal justice. Theories covered include strain, control, cultural, labeling, conflict, as well as more recent attempts at theoretical integration and multidisciplinary integration.

CRIMIN 6422 Law Courts, And Public Policy: 3 semester hours

Prerequisite: Graduate Standing. (Same as Political Science 6422) An analysis of the role of courts as policymaking institutions and the law as policy. We will explore the role of judges as policymakers, consider the attributes of courts, (both trial and appellate), that make them appropriate yet limited targets for advocates of reform, and the implementation and impact of court decisions. We will consider recent examples of judicial involvement in state and national policymaking. in addition, we will examine the role of lawyers and interest groups in selecting litigation rather than alternative political processes for policy change.

CRIMIN 6432 Criminal Law: 3 semester hours

Prerequisite: Graduate Standing or consent of instructor. A study of substantive criminal law, the laws that control the behavior of all citizens, and procedural criminal law, the laws that guide the behavior of criminal justice agents.

CRIMIN 6436 Comparative Criminology: 3 semester hours

Prerequisite: Graduate Standing Examination of crime and criminal justice systems in world perspective.

CRIMIN 6440 Nature Of Crime: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of patterns and correlates of crime at the individual, situational, and aggregate levels. Topics include definitions of crime, offending topologies, and criminal careers.

CRIMIN 6441 Juvenile Delinquency: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of youth crime and juvenile offenders. Topics include definitions of juvenile crime, and theories of juvenile crime causation in the U.S.

CRIMIN 6442 Communities And Crime: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of the trends and sources of crime and social disorder across communities. The course emphasizes relationships among crime, neighborhood change, neighborhood responses to crime, and public policies.

CRIMIN 6443 Violent Crime: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of the sources and patterns of violent offending across time and space. Topics include conceptions and typologies of violent crimes and offenders, victim-offender relationships, and efforts to predict and control violent offending.

CRIMIN 6444 Organizational Crime: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of crime by and within groups. Focuses on the types of criminal behavior known as organized crime, white collar crime and political corruption.

CRIMIN 6445 Property Crime: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of the sources and patterns of property offending across time and space. Topics include conceptions and typologies of property crimes and offenders, victim-offender relationships, and efforts to predict and control property offending.

CRIMIN 6446 Sex Crime: 3 semester hours

Same as GS 6446. Prerequisites: Graduate standing and consent of instructor. Examination of consensual and non-consensual sexual offending. Topics include historical development of laws regulating sexual conduct, controversies surrounding the application of these laws, and the nature and distribution of sexual offenses.

CRIMIN 6448 Victimization: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of the risks and consequences of crime for its victims. Issues considered include victim-offender relationships, characterists of victims, the nature of the injuries they experience and criminal justice procedures that involve them.

CRIMIN 6450 Criminal Justice Process And Policy: 3 semester hours

Prerequisite: Graduate standing An analysis of criminal justice as a network of decisions and complex organizations. Topics include sources of criminal justice policy, policy agendas, implementation and evaluation.

CRIMIN 6452 The Police: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Historical, social and political analysis of policing in America. Examination of federal, state, county and municipal agencies.

CRIMIN 6454 Corrections: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of the history, forms, and functions of correctional philosophies, institutions, programs and policies. Topics include the structure and functions of prisons and jails, community corrections, intermediate sanctions, and the growth of correctional control in modern society.

CRIMIN 6465 Qualitative Research Design: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of participant observation and informant and respondent interviewing. Topics include gaining access, sampling, data collection and analysis, and legal and ethical concerns.

CRIMIN 6470 Quantitative Research Design: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Examination of experimental, longitudinal, and cross-sectional designs. Sources of data, sampling procedures, operational definitions, and issues of reliability are also discussed.

CRIMIN 6471 Evaluating Criminal Justice Interventions: 3 semester hours

Prerequisites: CRIMIN 6405 and CRIMIN 6410 This course examines a broad range of interventions designed to prevent crime or improve some aspect of the criminal justice system. The validity reliability, and feasibility of differing intervention designs are addressed. Several major criminal justice evaluations are discussed.

CRIMIN 6480 Multivariate Statistics In Criminology: 3 semester hours

Prerequisites: CRIMIN 6405 and CRIMIN 6470 Introduction to the general linear model with applications to multivariate problems in criminal justice and criminology. Topics include advanced ordinary least squares, causal modeling, time series analysis, simultaneous equations, and analysis of limited dependent variables.

CRIMIN 6485 Directed Readings/Research In Criminology And Criminal Justice: 1-6 semester hours

Prerequisite: Consent Of Instructor. Directed Reading And Research, Under Faculty Supervision, Designed To Meet Particular Educational Needs Of Selected Students.

CRIMIN 6495 Internship In Criminology And Criminal Justice: 3 semester hours

Prerequisite: Graduate Standing Or Consent Of Instructor. Supervised Placements With Criminal Justice Agencies. Designed Primarily For Students With Limited Field Experience.

CRIMIN 6498 M A Thesis Research: 1-6 semester hours

Prerequisite: Graduate standing and consent of instructor.

CRIMIN 6550 Seminar in Criminology and Criminal Justice: 3 semester hours

Prerequisites: Graduate standing and CRIMIN 5415, CRIMIN 6400, and CRIMIN 6405 or consent of the instructor. Research and policy approaches to the study of criminology and criminal justice. Class may be repeated for credit when the subject matter is different.

CRIMIN 7499 Ph.D. Dissertation Research: 1-6 semester hours To be arranged.

Economics

Undergraduate Programs Overview Bachelor of Arts (B.A.) in Economics

The B.A. in Economics is more "liberal arts" in its focus than the B.S. degree. The B.A. degree requires completion of the BA foreign language requirement of the College of Arts and Sciences.

Bachelor of Science (B.S.) in Economics

The B.S. in Economics provides more in-depth development of the analytical and quantitative skills used in economic analysis. Students are required to complete calculus, econometrics, and additional quantitative coursework. The B.S. also offers very strong students the option of pursing the Dual B.S./M.A. program.

B.S./M.A. Dual Degree Program in Economics

The B.S./M.A. ("2+3") dual degree program in Economics is an accelerated program that allows students to complete a B.S. and a M.A.

in Economics in five years. The program is targeted at students who are comfortable with mathematics and have demonstrated success in undergraduate-level quantitative and analytical economics courses.

Minor in Economics

The Department offers a minor in Economics to students who want to develop some knowledge in this field but wish to major in another discipline.

Certificate in Actuarial Studies

A number of quantitative courses offered by the Department help satisfy the prerequisites for the Certificate in Actuarial Studies and help fulfill the VEE requirements in Economics and Applied Statistics. These courses have received approval of the Society of Actuaries (SOA). For more information on the Certificate in Actuarial Studies, see the Mathematics Department undergraduate program (https://nextbulletin.umsl.edu/artsandsciences/mathematicsandcomputerscience/#undergraduatetext).

Courses in Geography

The department offers a number of courses in geography, both online and on campus.

Resources

A valuable campus resource available to economics students is the Economic Resources Center (ERC). The ERC serves as a University Computer lab, study, and meeting space The ERC also provides peer tutors for undergraduate economics courses (especially for principles of microeconomics and principles of macroeconomics).

Graduate Programs OverviewMaster of Arts (M.A.) in Economics

The M.A. in Economics is specifically designed for those seeking to work as professional economists. Students acquire knowledge and a versatile set of skills that are highly valued in the workplace. The M.A. program has an excellent track record in job placement and placement in top Ph.D. programs. A unique feature of the program is the large number of applied econometrics and quantitative courses offered. The program can accommodate prospective full-time students as well as those who wish to study part-time. Classes are small, and student-faculty interaction is encouraged.

About the Faculty

The economics faculty considers research an integral part of good teaching. Research projects in recent years have dealt with energy, public choice, industrial organization, property rights, wage discrimination, urban economic development, health economics, economics of science, economics of gender, poverty and welfare, economics of culture, and government regulations.

Career Outlook in Economics

Nearly every decision that a person, business, or government makes falls under the purview of economic analysis. In economics course work, students learn to think analytically and apply their knowledge to a broad range of topics and problems. These skills are highly valuable in our ever changing economy, as well as in everyday life. For this reason, those with economics degrees are in high demand in a wide number of occupations, whether in business or government. In addition, economics majors are especially sought after by law schools, M.B.A. programs and, of course,

graduate programs in economics. Job prospects for those with economics degrees at both the undergraduate and graduate levels are expected to remain strong over the next decade. For additional information on the undergraduate program, contact the Director of Undergraduate Studies at 516-5562 or 516-5306. Regarding the graduate program, contact the Director of Graduate Studies at 516-5553. Additional information is also available at the Department of Economics website.

Undergraduate Studies General Education Requirements

All undergraduate economics majors must meet the university and college general education requirements (p. 28). Candidates for the B.A. degree may take any foreign language to meet this requirement. Candidates for the B.S. degree take mathematics and quantitative courses instead of the foreign language requirement. Courses in economics may be used to meet the university social sciences requirement.

Satisfactory/Unsatisfactory Option

Courses outside the major field and ECON 1001 (p. 130), Principles of Microeconomics, and ECON 1002, Principles of Macroeconomics, may be taken on a satisfactory/unsatisfactory basis.

Prerequisites

All prerequisites for economics courses must be completed with a C- or better.

Bachelor of Arts in Economics

Candidates for the B.A. degree must take at least 33, but no more than 45, hours in economics. At least 27 hours must be above the 2000 level. All required courses for the major must be completed with a grade of C- or better. The following courses are required:

ECON 1001 (p. 130)	Principles Of Microeconomics	3
ECON 1002		3
ECON 2800 (p. 130)	History Of American Economic Development	3
or ECON 3800 (p 130)	. History Of Economic Thought	
ECON 3001 (p. 130)	Intermediate Microeconomics	3
ECON 3002 (p. 130)	Intermediate Macroeconomics	3
ECON 3100 (p. 130)	Economic Statistics	3
ECON 3200 (p. 130)	Money, Banking And Monetary Theory	3

Education Majors

Education majors specializing in economics must fulfill the requirements for the B.A. degree. These majors are responsible for obtaining an adviser in the Department of Economics.

Bachelor of Science in Economics

Candidates for the B.S. degree must complete at least 36, but no more than 50, hours in economics. At least 30 hours must be at or above the

2000 level. All required courses for the major must be completed with a grade of C- or better. The following courses are required:

ECON 1001 (p. 130)	Principles Of Microeconomics	3
ECON 1002		3
ECON 3001 (p. 130)	Intermediate Microeconomics	3
ECON 3002 (p. 130)	Intermediate Macroeconomics	3
ECON 3100 (p. 130)	Economic Statistics	3
ECON 3200 (p. 130)	Money, Banking And Monetary Theory	3
ECON 4100 (p. 130)	Introduction To Econometrics	4
MATH 1800 (p.	Analytic Geometry And Calculus I (strongly	3-5
130)	recommended) ¹	
or MATH 1100 (p.	Basic Calculus	
130)		
Select two of the f	following:	6-8
ECON 4030 (p. 130)	Managerial Economics	
ECON 4040 (p. 130)	Analysis Of Business Cycles	
ECON 4110 (p. 130)	Applied Econometrics	
ECON 4120 (p. 130)	Time Series Econometrics For Economics And Finance	
ECON 4130 (p. 130)	Business And Economic Forecasting	
ECON 4150 (p. 130)	Mathematical Economics	
ECON 4160 (p. 130)	Geospatial Analysis In The Social Sciences	
Mathematics co	ourses numbered 1900 or above with consent of	

Mathematics courses numbered 1900 or above with consent of advisor ¹

B.S./M.A. Dual Degree Program in Economics

The B.S./M.A. (also known as the "2+3") program is an accelerated program that allows students to complete a B.S. and a M.A. in economics in five years. The program allows students to apply 12 of the M.A. credit hours towards the B.S., reducing the overall required hours for the two degrees from the standard 150 (120 for the B.S. plus 30 for the M.A.) to 138 hours.

The M.A. in Economics requires 30 credit hours; at least 21 hours must be completed in residence.

The following 3 courses (9 credit hours) are required:

ECON 5001 (p. Microeconomic Analysis 130)

ECON 5002 (p.	Macroeconomic Analysis	3
130)	ŕ	
ECON 5100 (p.	Econometric Theory And Methods	3
130)		

In addition, 21 credit hours of electives must be completed. At most, six of these credit hours may be economics courses at the 4000 level (excluding ECON 4100 (https://nextbulletin.umsl.edu/artsandsciences/economics) and ECON 4150 (https://nextbulletin.umsl.edu/artsandsciences/economics) which cannot be utilized as part of the M.A. degree); all other electives must be at the 5000 level or higher.

Of the 30 hours taken in the M.A. program, 12 of these hours (per the approval of the Graduate Director) will also count toward the undergraduate B.S. requirements. All other requirements for the B.S. degree remain in effect.

Admission Requirements

Applicants must have completed between 60 and 108 credit hours. Applicants must have a minimum G.P.A. of 3.0 (both overall and in economics courses) and must be nominated by a full-time regular economics faculty member. Applicants must have completed all of the general education requirements as well as college algebra (or a higher level mathematics course), introductory microeconomics and introductory macroeconomics. Those accepted with fewer than 90 semester credit hours are accepted only on a provisional basis. Once the student has completed 90 semester hours of coursework (typically including ECON 3001 (https://nextbulletin.umsl.edu/artsandsciences/economics), ECON 3002 (https://nextbulletin.umsl.edu/artsandsciences/economics), ECON 3100 (https://nextbulletin.umsl.edu/artsandsciences/economics), ECON 3200 (https://nextbulletin.umsl.edu/artsandsciences/economics), MATH 1800 (https://nextbulletin.umsl.edu/artsandsciences/economics), and preferably ECON 4100 (https://nextbulletin.umsl.edu/artsandsciences/ economics)) with a satisfactory G.P.A. (minimum G.P.A. of 3.0 overall and in economics courses) the provisional status is dropped.

It is recommended that applicants apply when they have completed 90 credit hours; further, it is recommended that applicants should complete intermediate microeconomics (ECON 3001 (https://nextbulletin.umsl.edu/artsandsciences/economics)) and/or introductory econometrics (ECON 4100 (https://nextbulletin.umsl.edu/artsandsciences/economics)) before applying.

Awarding of Degree

Both degrees (the B.S. and M.A.) will be awarded when all requirements for the entire program have been completed. In other words, the B.S. and M.A. degrees will be simultaneously awarded at the completion of study.

Students who officially withdraw from the B.S./M.A. Dual Degree Program in Economics and who have successfully completed all of the requirements for the B.S. degree will be awarded the B.S. degree.

Departmental Honors

A student may earn departmental honors with a GPA of 3.6 in economics and the recommendation of the department.

Minor in Economics

Candidates for a minor in economics must take a minimum of 15 hours in economics.

Note: mathematics courses used for this requirement do **not** count towards the 36 hours in economics requirement

The following courses are required:

ECON 1001 (p. Principles Of Microeconomics 3 130) ECON 1002 3

For the remaining 9 hours, 3 hours must be at or above the 2000 level and 6 hours must be at or above the 3000 level. It is recommended that students take ECON 3001 (p. 130), Intermediate Economic Theory: Microeconomics and/or ECON 3002 (p. 130), Intermediate Economic Theory: Macroeconomics. ECON 3100 (p. 130), Economic Statistics, cannot be counted towards the economics minor if the student has also taken LOG OM 3300 (p. 130) or the equivalent.

A GPA of 2.0 or better is required for courses presented for the minor. The satisfactory/ unsatisfactory (s/u) option may be applied to ECON 1001 (p. 130) and only.

Complementary Areas of Study

The department encourages all majors to develop breadth in related disciplines. Course work and minors are available in a number of areas such as business administration, computer science, statistics, and political science. Students should check with their advisers for recommendations concerning courses in these areas. The department suggests the following supplemental course work for students interested in pursuing doctoral-level graduate work in economics or careers in general business. It also encourages all students to obtain work experience by enrolling in the Internship In Applied Economics (ECON 4990).

Graduate School Preparation

It is recommended that students considering doctoral-level graduate work in economics also take:

MATH 1900	Analytic Geometry And Calculus II	5
MATH 2000	Analytic Geometry And Calculus III	5
MATH 2020	Introduction To Differential Equations	3
MATH 2450	Elementary Linear Algebra	3
MATH 4100	Real Analysis I	3
MATH 4200	Mathematical Statistics I	3

General Business Preparation

It is recommended that students interested in pursuing careers in business also take:

ACCTNG 2400	Fundamentals Of Financial Accounting	3
ACCTNG 2410	Managerial Accounting	3
BUS AD 2900	Legal Environment Of Business	3
FINANCE 3500	Financial Management	3
MKTG 3700	Basic Marketing	3

Learning Outcomes

Students completing the B.A. and B.S. in Economics are expected to have achieved the following learning outcomes:

- Use economic reasoning to interpret and evaluate social, political and economic arguments, and policies.
- Use mathematical methods to interpret and analyze economic models to assess their logical validity and to model economic phenomena.

- Use statistical methods to interpret and analyze economic data and to assess the empirical validity of economic propositions.
- Employ their understanding of key market institutions such as property rights and contracts and economic organizations such as the Federal Reserve System and the International Monetary Fund to analyze economic behavior and evaluate public policy.
- Identify the causes and consequences of poverty and prosperity across and within societies.
- Predict changes in key macroeconomic variables in response to changes in social, political, and economic policy as well as noneconomic events such as terrorist attacks, natural disasters, and changes in consumer confidence.
- Write a research paper that employs sound economic reasoning and, where appropriate, uses data and statistical methods to analyze an economic policy.

Master of Arts in Economics Admission Requirements

An undergraduate major in economics is not required for acceptance into the program. Application for admission may be submitted at any time, although class work formally begins in late August, mid-January, and mid-June. Candidates must meet the general admission requirements of the Graduate School, submit GRE scores (Advanced Economics optional), and submit two letters of recommendation from persons qualified to judge the candidate's potential for success in the program.

The admissions decision is based on the applicant's academic transcript, GRE scores, letters of recommendation, and a personal narrative on the application form.

Degree Requirements

The M.A. in Economics requires 30 credit hours; at least 21 hours must be completed in residence.

Candidates need not have an undergraduate degree in economics. However, students are expected to have taken intermediate microand macro-economics, mathematical economics, and introductory econometrics prior to the beginning of the core curriculum. Students that do not have these courses will take these courses first; credits earned in these courses do not count towards the 30 hours required for the MA.

Required Core Courses

The following courses or their equivalents are required for the M.A. in Economics. Students with previous education in economics or business may waive some of these courses.

ECON 5001 (p. 130)	Microeconomic Analysis	3
ECON 5002 (p. 130)	Macroeconomic Analysis	3
ECON 5100 (p. 130)	Econometric Theory And Methods	3

Electives

Candidates must complete at least 21 hours of electives. A maximum of 6 hours of economics electives may be taken at the 4000 level. With the approval of the graduate coordinator, students may take up to 9 hours

of graduate courses outside the Department of Economics. In particular, students interested in business economics may take up to three approved graduate business courses for their electives.

Departmental Honors

A student may earn departmental honors with a GPA of 3.75 in all required courses for the M.A. degree and the recommendation of the department.

Learning Outcomes

Students completing the M.A. in Economics are expected to have achieved the following learning outcomes:

- · Interpret and analyze economic models and assess their validity.
- Use theoretical and empirical tools to design effective business and government policies.
- Use econometric methods to interpret and analyze economic data, to assess the empirical validity of economic propositions, evaluate business and government policies, and to forecast economic variables.
- Develop at least one topic area of expertise through familiarity with the relevant scholarly and professional literatures, policy issues, institutions, and current data trends.
- Develop at least one methodological area of expertise through the acquisition of the theoretical and empirical tools needed to understand scholarly and professional contributions to the literature to facilitate lifelong professional development and refinement of expertise.
- · Write a professional quality research paper.
- Develop sufficient proficiency in the use of theoretical and empirical tools and in understanding of economic institutions to excel in a Ph.D. program.

Economics Courses

ECON 1000 Introduction To The American Economy: 3 semester hours

Introduction to economic analysis and problems through an examination of the development and operations of the american economy; study of its evolution, institutions and principal problems. ECON 1000 does not substitute for ECON 1001 or ECON 1002. Students who have already completed ECON 1001 or ECON 1002 may not take ECON 1000 for credit.

ECON 1001 Principles Of Microeconomics: 3 semester hours

Prerequisite: MATH 1030. Introduction to the determinants of household demand, production and cost, and market prices. Applies the principles of individual decision-making behavior to understanding goods, services and resource markets.

ECON 1002 Principles Of Macroeconomics: 3 semester hours

Prerequisite: MATH 1030 and ECON 1001. Introduction to the determination of levels of and changes in aggregate income, output, employment and prices. Applies economic principles of choice to the formulation and achievement of public policies that affect national employment, income distribution, and economic growth.

ECON 1003 Microeconomics In The News: A Virtual Classroom: 1 semester hour

Prerequisites: ECON 1000 or ECON 1001 (may be taken concurrently). This course uses a virtual chatroom to host one hour of discussion weekly about current news events with microeconomic content. News articles will focus on business, public policy, and individual choices that can be understood within a microeconomics framework. Chatroom can be accessed from any location-on or off-campus - with internet access.

ECON 1004 Macroeconomics In The News: A Virtual Classroom: 1 semester hour

Prerequisite: ECON 1002 (may be taken concurrently) This course uses a virtual chatroom to host one hour of discussion, weekly, about current news events with macroeconomic content. News articles will focus on macroeconomic phenomena - e.g., interest rates, the global economy, the Federal Reserve and public policy decisions - that can be understood within a macroeconomics framework. Chatroom can be accessed from any location - on or off-campus - with internet access.

ECON 1005 Family Economics and Household Development: 3 semester hours

Provides social service professionals that work with low income individuals and families with an understanding of the principles of personal financial management. Case studies are used to apply course content and to develop training strategies for clients to improve household financial management. The role of financial institutions and government policies as well as their impact on low income families is also examined. Resources to use with clients will be identified. ECON 1005 does not count toward a major or minor in Economics.

ECON 1500 Entertainment Economics: The Movie Industry: 3 semester hours

Same as MEDIA ST 1500. This survey course examines the interrelationships between economics and the movie industry. It explores the impact of economic factors on the production, distribution and exhibition of movies, focusing on the rise and fall of the studio system, role of technological change in the evolution of cinematography and the movie marketplace, financing and market segmentation, globalization and changing industrial structure within which films are produced. To the extent that movies reflect and contribute to popular economic perspectives, this course also evaluates the soundness of the movie industry's depiction of a variety of economic doctrines. Classes will consist of lecture, discussion, and brief film screenings. This course does not count towards the hours required for an economics major.

ECON 1510 Entertainment Economics: The Popular Music Industry: 3 semester hours

This survey course examines the interrelationship between economics and the music industry. It explores the impact of economic factors on the production, distribution of music, payola, and the rise and fall of the independent labels, the role of technological change in the evolution of music industry, globalization and changing industrial structure within which cds are produced. To the extent that music reflects and contributes to popular economic perspectives, this course also evaluates the soundness of the music industry's depiction of a variety of economic doctrines. Classes will consist of lecture, discussion, and brief listening sessions. This course does not count toward the hours required for an Economics major.

ECON 2410 Work, Families, And Public Policy: 3 semester hours

Same as GS 2410. Prerequisites: ECON 1000 or ECON 1001. This course compares the economic behavior of women and men in both the labor market and the household. Topics include: the family as an economic (production) unit, gender differences in labor force participation, occupations and earnings; the effectiveness of human capital theory and labor market discrimination in explaining the male-female wage gap; remedies for reducing the wage gap; family structure and economic wellbeing; and alternative policies to alleviate poverty. Students who have completed ECON 3400 may not take ECON 2410 for credit.

ECON 2610 The Economics Of Professional Sports: 3 semester hours

Prerequisites: ECON 1000 or ECON 1001 or consent of instructor This course will survey the economic organization of professional sports team industries and the relationship of sports teams to their employees, fans, and governments. Economic issues relating to salaries and labor disputes, monopoly practices, cartels and pricing, team location decisions, and public subsidies for professional sports teams will be analyzed.

ECON 2800 History Of American Economic Development: 3 semester hours

Same as HIST 2800. Prerequisites: ECON 1000 or ECON 1001 or consent of instructor. Uses economic concepts to explain historical developments in the American economy, beginning with the huntergatherers who crossed the Bering land bridge around 12,000 BC. Main topics include the Native American economies, European exploration and conquest, the colonial economies, indentured servitude, the American Revolution, the US Constitution, westward expansion, transportation, the Industrial Revolution, state banking and free banking, slavery, the Civil War, post-bellum agriculture, the rise of big business and anti trust, banking panics, the Federal Reserve Act, the First and Second World Wars, the New Deal, and the growth of government in the postwar economy.

ECON 3001 Intermediate Microeconomics: 3 semester hours

Prerequisite: MATH 1030 and ECON 1001. Analysis of prices in terms of equilibrium of the business firm and consumer demand in markets of varying degrees of competition.

ECON 3002 Intermediate Macroeconomics: 3 semester hours

Prerequisite: MATH 1030, ECON 1001 and ECON 1002; ECON 3200 is recommended. Study of national income, expenditure and the forces determining the level of economic activity. Special emphasis on the theory of income determination and its application to public policy.

ECON 3003 Game Theory And Strategic Decision Making: 3 semester hours

Prerequisites: ECON 1001. When the best course of action depends on the decisions made by others, strategy becomes important. Game theory provides the tools for analyzing such strategic decision making. Strategic behavior is analyzed in the context of business, logistics, biology, war, government, politics, and everyday life. A wide variety of in-class experiments are used to illustrate key concepts.

ECON 3052 Microeconomics For The School Curriculum: 1-3 semester hours

Prerequisite: Junior standing. Analysis of market forces, with emphasis on business firms, households, and productive-factor markets, price determination and resource allocation. Special reference to topics included in elementary and secondary school social science curricula. ECON 3052 may not be used by Economics majors to meet degree requirements.

ECON 3055 Economic Issues For The School Curriculum: 1-3 semester hours

Prerequisites: Junior standing and consent of instructor. An analysis of selected economic issues appropriate to instruction in secondary and elementary schools. May be taken more than once for credit, provided the topic of the course is different each time. May not normally be used by economics majors to meet degree requirements. This course does not fulfill the undergraduate economics requirement for education majors.

ECON 3100 Economic Statistics: 3 semester hours

Prerequisite: MATH 1030, ECON 1001, and ECON 1002. Introduction to economic data sources, data interpretation and statistical inference as used in economic analysis. Emphasizes the testing of economic hypotheses and the development and estimation of economic models. Introduces the use of statistical software used in economics.

ECON 3200 Money, Banking And Monetary Theory: 3 semester hours Prerequisites: ECON 1001 and ECON 1002. Factors influencing bank reserves and the money supply. Ability of the Federal Reserve System and the Treasury to control these factors. Introduction to monetary theory: integration of monetary phenomena with national income theory. Analysis of current policy issues.

ECON 3300 International Economic Analysis: 3 semester hours

Prerequisite: ECON 1001. Introduction to the theories of international trade and factor movements including determinants of trade, the effects of trade on sectors and on overall economic performance, trade restrictions, and balance of payments and exchange rates. Discussion of current institutions and economic developments in the global economy.

ECON 3301 International Finance: 3 semester hours

Prerequisites: ECON 1002 Introduction to international monetary systems; foreign exchange markets; financing of international transactions; the international position of the dollar.

ECON 3320 Economic Development: 3 semester hours

Prerequisites: ECON 1001 and ECON 1002. Survey of economic growth as applied to developed and underdeveloped countries. Analysis of development policies with Emphasis on case studies. Case studies may include the United States, Western Europe or Latin America.

ECON 3400 Labor Economics: 3 semester hours

Prerequisites: ECON 1001 Examines the labor market in the economy. considers the theories of labor supply, labor demand, and market determination of wages. Other topics include noncompetitive markets, international labor markets, the theory of human capital, compensating wage differentials, labor market discrimination, unions and collective bargaining, unemployment, and poverty and the distribution of income.

ECON 3450 Labor in the Global Political Economy: 3 semester hours

This course will examine current issues, trends, and developments which are shaping labor in today's global economy. Students will analyze the shifting balance of power between labor and capital, the role of government, and evaluate the strategic options for workers and unions operating in a global environment. ECON 3450 may not be used by economics majors to meet degree requirements.

ECON 3500 The Economics of Government Spending and Taxation: 3 semester hours

Prerequisites: MATH 1030 and ECON 1001. Analysis of the role of government expenditures and taxation. Topics include: (1) analysis of public goods and externalities, models of collective choice, elements of benefit-cost analysis the theory of bureaucracy, governments as agents in markets; and (2) analysis of the economic role of governments, subsidies and taxes in the federal system, criteria for tax evaluation, the nature of tax legislation, private decision making under different tax institutions, and government borrowing.

ECON 3600 Market Structure, Strategy, and Pricing: 3 semester hours

Prerequisite: ECON 1001. A theoretical and emperical analysis of the actions of firms under alternative forms of market organization. The role of economies of scale, product differentiation, mergers, and advertising in affecting industry structure and the impact of the resulting industry structure on pricing, output, promotion, and technology decisions of firms.

ECON 3650 Law And Economics: 3 semester hours

Prerequisites: ECON 1001 Analysis of the economic role of property rights and contracts in the private for-profit and not-for-profit sectors of the economy. Considers economic incentives to form organizations as one alternative and to form contracts as another. Considers the economic efficiency of the common law and judicial systems in use in the United States.

ECON 3800 History Of Economic Thought: 3 semester hours

Prerequisite: ECON 1001 and ECON 1002. The evolution of economic thought from the ancients through post-Keynesian theory.

ECON 3900 Selected Topics In Economics: 3 semester hours

Prerequisites: ECON 1001 and ECON 1002. Analysis of a selected economic topic. The topic selected will vary from semester to semester. This course may be taken for credit more than once so long as the topic discussed in each semester is different.

ECON 4030 Managerial Economics: 3 semester hours

Prerequisites: ECON 3001; MATH 1800 or MATH 1100 recommended. Application of microeconomic theory to decision-making process in the business firm. Topics include pricing and profit strategy, cost analysis, decision making under uncertainty, technology, innovation, and productivity growth, and the structure and organization of firms. Problem-solving and case-study approach used.

ECON 4040 Analysis Of Business Cycles: 3 semester hours

Prerequisites: ECON 3002, ECON 3100, and ECON 3200 or equivalent. This course focuses on the empirical regularities in macroeconomics commonly referred to as the business cycle. It examines the variability and co-movements of aggregate economic variables and explores alternative theoretical explanations of these phenomena.

ECON 4100 Introduction To Econometrics: 4 semester hours

Prerequisites: ECON 1001 and ECON 1002; ECON 3100 or MATH 1320 or LOG OM 3300; MATH 1800 or MATH 1100. An introduction to quantitative analysis of economic behavior. The ordinary least squares technique and the assumptions underlying it are developed. Methods designed to detect and correct for the violations of these assumptions are examined. Special emphasis is given to the practical application of the procedures discussed through the use of computer exercises.

ECON 4105 Quantitative Mth & Modeling In Econ, Business & Social Sciences: 3 semester hours

Prerequisites: MATH 1030; ECON 1001 or junior standing This course focuses on the application of mathematical techniques to model building. The course reviews various mathematical techniques and shows students how they can be used for describing various social and business phenomena. Specific examples from the business, economics, criminology and other social sciences will be employed to reinforce the mathematical tools and concepts discussed. Students who have previously completed ECON 4150, MATH 1800 or MATH 1100 may not take this course for credit.

ECON 4110 Applied Econometrics: 4 semester hours

Prerequisites: ECON 4100 or equivalent. Concepts, techniques, & advanced applications of econometrics. Emphasis on developing a critical understanding of the appropriateness and limitations of a variety of state-of-the-art techniques used to model economic or political processes. Topics will include joint tests of hypotheses, estimation of lagged effects, models of qualitative choice, simultaneous systems, and outlier diagnostics. This course includes laboratory work in quantitative economic analysis.

ECON 4120 Time Series Econometrics For Economics And Finance: 4 semester hours

Prerequisites: ECON 4100 or equivalent and a solid foundation in statistics. Introduction to application of econometric methods to timeseries data. Emphasis on model specification as it appears to macroeconomic or financial data. Topics include: Stationary and non-stationary time-series, seasonality, random walks, unit roots, Dickey-Fuller tests, cointegration, ARCH/GARCH models, and general to specific modeling (ADLs). Specific applications to macro-economics, international economics and/or financial markets.

ECON 4130 Business And Economic Forecasting: 4 semester hours

Prerequisites: ECON 4100 or equivalent. Alternative forcasting methodologies for economic time series will be analyzed and discussed. The focus of the course will be: (1) the development of time-series (ARIMA) models and their application to forcasting; (2) the use of standard econometric models for forecasting; and (3) evaluation and comparison of these methods and the conditions under which each is the appropriate methodology. This course includes laboratory work in quantitative economic analysis.

ECON 4150 Mathematical Economics: 3 semester hours

Prerequisites: MATH 1800 or MATH 1100; ECON 3001 or BUS AD 5000 or BUS AD 5001. This course uses calculus and other mathematical tools to analyze economic phenomena. In addition to exploring techniques used to solve unconstrained and constrained optimization problems, the couse also examines how matrix algebra is used in economic modeling. This course allows students to mathematically analyze economic models which receive graphical treatment in lower level courses.

ECON 4160 Geospatial Analysis In The Social Sciences: 3 semester hours

Prerequisites: Junior standing. ECON 1001 or consent of instructor. Analysis of geospatial data relating to a variety of social phenomena using geographic information systems (GIS) software. Students will learn how geospatial analysis can be integrated into research projects and presentations (e.g., creating maps to present and analyze social, political, and economic data). Students will also learn how criminal activity, economic activity, voting patterns and other social behavior are spatially correlated with demographic data. As a culminating project, students will learn how to apply GIS techniques, including but not limited to sophisticated spatial modeling of social behavior.

ECON 4170 Fundamentals Of Cost-Benefit Analysis: 3 semester hours

Prerequisites: ECON 3001 or equivalent The purpose of this course is to provide a systemic and rigorous way of thinking about the measurement of benefits and costs when evaluating public projects, programs or regulations. Cost-benefit analysis has wide application, including: environmental resource use, highway construction projects, safety regulations, taxation of cigarettes, and investment in higher education. Given the prevalence of cost-benefit analysis in government budgetary processes, this course will develop critical appraisal skills to evaluate the appropriateness of these analyses.

ECON 4210 Financial Markets And Institutions: 3 semester hours

Prerequisite: ECON 3200. Demand, supply and flow of funds in the macrofinancial system, including money, capital, futures and foreign exchange markets. Examines types and historical development of domestic and international financial intermediaries operations within these markets, decision-making within individual intermediaries, their regulatory environment, and how their portfolio decisions affect flows of funds in the financial system.

ECON 4510 Public Choice: 3 semester hours

Prerequisites: ECON 3001 or consent of instructor. Public choice is the analysis of government and governmental institutions through the logic of economics. It assumes the same principles that economists use to analyze actions in the marketplace, and applies them to actions made in collective decision-making. Topics include: the efficiency of democracy, voting methods, the incentives of legislators, bureaucrats and lobbyists, political competion, and public institutions and economic growth.

ECON 4550 Natural Resource Economics: 3 semester hours

Prerequisites: ECON 1001 or consent of instructor; junior standing. The relationship between human activity and the world's natural resources requires choices. This course uses an economics perspective to study these choices. This perspective uses the view of the environment as an asset for its starting point. Issues concerning the optimal and sustainable use of natural resources are examined in this context. Special emphasis is given to potential policy responses to environmental problems.

ECON 4700 Urban Areas and Real Estate Markets: 3 semester hours

Prerequisites: ECON 3001. Investigate the spatial aspects of urban economics: location theory, market areas, agglomerations, and real estate. The focus is on the description and explanation of the spatial allocation of economic activity with particular attention paid to the role of cities. Topics will include regional development, the growth of cities, firm location decision, spatial externalities, sprawl, and housing markets. Students may not receive credit for both ECON 4700 and ECON 5700.

ECON 4720 The Economics Of Real Estate And Land Use Policy: 3 semester hours

Prerequisites: ECON 3001 and ECON 4100 This course will introduce economic theory and analysis of the real estate market's micro and macro characteristics. Public policy impacting both the residential and commercial property markets will be discussed using the models developed in the course. Topics include price and location theory, growth and growth patterns, urban sprawl, migration, regulation of land and capital, provision of public goods, and non-market valuation econometric modeling. Hands on applications of various non-market econometric models will be provided.

ECON 4900 Advanced Topics In Economic Analysis: 3 semester hours

Prerequisite: ECON 3001 or ECON 3002 or consent of instructor. Study of a specific topic in Economics that may vary from semester to semester. May be taken for credit more than once if the topics are different.

ECON 4980 Special Readings: 1-6 semester hours

Prerequisite: Consent of instructor; grade point of 3.0 or higher in Economics. Unscheduled, independent directed readings on topics mutually acceptable to student and instructor. Maximum credit limited to six hours.

ECON 4990 Internship In Applied Economics: 2-6 semester hours

Prerequisites: ECON 3001, junior standing and consent of instructor. Independent study involving work with an appropriate private firm or public agency. A maximum of six hours may be earned, only three of which may be applied to the Economics major.

ECON 5001 Microeconomic Analysis: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001; ECON 3002 or BUS AD 5002; ECON 4150. Survey of Microeconomic comparative statistics. Detailed examination of demand and supply, product and factor markets. Partial equilibrium in competitive, imperfectly competitive and monopolistic markets.

ECON 5002 Macroeconomic Analysis: 3 semester hours

Prerequisites: ECON 3200; ECON 3001 or BUS AD 5001; ECON 3002 or BUS AD 5002; and ECON 4150. Aggregate economic theory, including analysis of the determinants of income, output, employment, and prices. Employment and price-level effects of consumer and investment demand, the money supply and interest rates, and government policies.

ECON 5010 Microeconomics For Policy Analysis: 3 semester hours
Same as P P ADM 6080. Prerequisite: Graduate Student Standing. This
course introduces microeconomic analysis of consumers, firms, and
government, with an emphasis on policy applications. It assumes no
prior training in economics and is appropriate for graduate students in
public policy administration, nonprofit management, political science,
gerontology, criminology and criminal justice, and other related fields.
This course may not be used by economics students to meet M.A. degree
requirements.

ECON 5051 Macroeconomics For The School Curriculum: 1-3 semester hours

Prerequisite: Junior standing. Analysis of forces affecting the national economy, with emphasis on income determination, employment, money and banking, and international trade and finance. Special reference to topics included in elementary and secondary school social science curricula. Economics 305 may not be used by Economics majors to meet degree requirements.

ECON 5052 Microeconomics For The School Curriculum: 1-3 semester hours

Prerequisites: Bachelor's degree from an accredited institution or consent of instructor Analysis of market forces, with emphasis on business firms, households, productive factor markets, price determination and resource allocation. Special reference to topics included in the elementary and secondary school social science curricula.

ECON 5055 Economic Issues For School Curriculum: 1-3 semester hours

Prerequisite: Junior standing and consent of instructor. An analysis of selected economic issues appropriate to instruction in secondary and elementary schools. May be taken more than once for credit provided the topic of the course is different each time. May not normally be used by economics majors to meet degree requirements.

ECON 5100 Econometric Theory And Methods: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001; ECON 3002 or BUS AD 5002; ECON 4150; ECON 4100 or LOG OM 5300; MATH 2450 or equivalent. A rigorous review of statistical models and methods relevant to the estimation and testing of economic relationships. Emphasis on the theoretical underpinnings of techniques commonly used for single and multiple equation estimation and hypothesis testing. Topics include ordinary and generalized least squares, robust regression, and simultaneous equations estimation.

ECON 5110 Topics In Applied Econometrics: 3 semester hours

Prerequisites: ECON 4100, or ECON 5100 or LOG OM 5300. Concepts and application of advanced econometric techniques. Students will develop a thorough understanding of the appropriateness and application of a variety of state-of-the art techniques. Topics will include specification tests, polynomial distributed lags, discrete choice, pooled time-series cross-section, simultaneous equations and outlier detection.

ECON 5120 Advanced Topics In Time Series Econometrics: 3 semester hours

Prerequisites: ECON 4100 or equivalent and a solid foundation in statistics. Application of econometric methods to time-series data. Emphasis on model specification as it applies to macroeconomic or financial data. Advanced topics include: Stationary and nonstationary time-series, seasonality, random walks, unit roots, Dickey-Fuller tests, cointegration, ARCH/GARCH models, and general to specific modeling (ADLs). Specific applications to macro-economics, international economics and/or financial markets.

ECON 5130 Advanced Topics In Business And Economic Forecasting: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001; ECON 3002 or BUS AD 5002; ECON 4150; ECON 4100 or LOG OM 5300. This course develops the alternative techniques which are used to forecast economic time series. Each forecasting technique will be evaluated in terms of its theoretical soundness and predictive track record. Students will also learn to use these techniques to differentiate among competing economic models.

ECON 5200 Monetary Theory And Policy: 3 semester hours

Prerequisites: ECON 3200; ECON 3001 or BUS AD 5001; ECON 3002 or BUS AD 5002; and ECON 4150. An examination of how monetary policy has affected the economy in the past and how it can improve economic performance in the future. Topics include: the origins of money, money supply, money demand, the determinants of real and nominal interest rates, the term structure of interest rates, the impact of discretionary monetary policy on the domestic economy and foreign exchange markets, and the relationship between monetary policy and federal government deficits.

ECON 5210 Financial Markets: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001; ECON 3002, and ECON 3200. Demand, supply, and flow of funds in allocating credit and distributing risk in the macrofinancial system. The saving investment process, the rationale for financial markets, and the role of financial intermediaries are studied within the framework of the flow of funds accounts. Special attention is given to the operation of money, capital, futures, and foreign financial markets and the impact of public policy on the structure and performance of financial markets.

ECON 5300 International Trade: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001. Survey of the modern theories of international trade and their applications including factor endowments and other, trade restrictions, foreign investment, trade and economic development, and balance of payments and exchange rates. Discussion of current institutions and economic developments in the global economy.

ECON 5301 International Monetary Analysis: 3 semester hours

Prerequisites: ECON 3200 and ECON 3002 or BUS AD 5002. Application of macroeconomic theory to the international monetary system. Topics include the balance of payments, exchange rates, international linkages, world inflation, capital flows, and the gold standard.

ECON 5400 Labor Economics: Theory And Public Policy: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001. This course examines labor supply, labor demand, and market determination of wages. Topics covered include the effect of technological change on employment, trends in labor force participation, the impact of government taxes and transfers on labor supply, poverty, and its economic consequences, the human capital model and its implications for investment in education and on-the-job training, and theories of economic discrimination and empirical measurement issues. Throughout the course, current public policy debates are examined using the theoretical models developed.

ECON 5500 Public Sector Microeconomics: 3 semester hours

Same as P P ADM 6210. Prerequisites: ECON 3001 or BUS AD 5001 and P P ADM 6080. Application of tools of intermediate microeconomics to address public sector issues. Special emphasis is placed on critically analyzing current public policy debates using the models developed. Topics covered include: cases in which competitive market fails to allocate resources efficiently (e.g. externalities and public goods), importance of property rights, incentive effects of the tax and transfer system, and the fundamentals of cost-benefit analysis.

ECON 5510 Public Choice: 3 semester hours

Prerequisites: ECON 3001 or consent of instructor. Public choice is the analysis of government and governmental institutions through the logic of economics. It assumes the same principles that economists use to analyze actions in the marketplace, and applies them to actions made in collective decision-making. Topics covered include: the efficiency of democracy, voting methods, the incentives of legislators, bureaucrats and lobbyists, political competition, and public institutions and economic growth.

ECON 5600 Structure And Performance Of United States Industry: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001; and ECON 4150. An analysis of the functioning of business firms under alternative market arrangements. Topics include: the theory and measurement of monopoly power and the role of economies of scale, product differentiation, and entry conditions in affecting this power; the impact of market power on the pricesetting behavior, advertising and promotional strategies, and technological innovation of firms; the role of government policy in promoting or preventing competition among firms.

ECON 5630 Economics Of Telecommunications: 3 semester hours

Prerequisites: ECON 3001, BUS AD 5000 or BUS AD 5001; and ECON 4150 Application of economic theory and techniques to the telecommunications industry. Topics include demand theory for telephone access and use, consumer surplus models for subscription choice, nonlinear pricing strategies including pure and mixed bundling and multipart tariffs, the incentives of the firm under various regulatory regimes, a comparison of rate-of-return regulation and incentive (price cap) regulation, and the impact of carrier-of-last-resort responsibilities.

ECON 5640 Transportation Economics: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5000 This course makes use of range of economic concepts to examine the nature of markets in which transport services are provided. This course is designed for future transportation professionals who wish to explore the fundamentals of economics in their field and for graduate students in public policy and economics wishing an economics-based understanding of transportation issues. Basic concepts covered include the theory of transportation demand, transportation costs and investment planning, and current topics in transportation economics such as regulation-deregulation and social cost pricing.

ECON 5700 Regional And Urban Economics: 3 semester hours

Prerequisites: ECON 3001 Investigate the spatial aspects of urban and regional economics; location theory, market areas, and agglomerations. The focus is on the description and explanation of spatial allocation of economic activity with particular attention paid to the role of cities. Topics will include regional development and regional development strategies, the growth of cities, firm location decision, spatial externalities, sprawl, and firm location.

ECON 5720 Real Estate Economics: 3 semester hours

Prerequisites: ECON 3001 and ECON 4100 This course will apply economic theory to analyze the real estate market's micro and macro characteristics. Public policy impacting both the residential and commercial property markets will be discussed using models developed in the course. Topics include price and location theory, growth and growth patterns, urban sprawl, migration, regulation of land and capital, provision of public goods, and non-market valuation econometric modeling. Hands on applications of various non-market econometric models will be provided.

ECON 5760 Health Economics: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5001. This course applies microeconomic theory and statistical techniques to understand decision making in health care markets. The effects of government policies on the health care choices of consumers and providers are identified and quantified; attention is given to federal and state entitlement programs, regulations, tax policies and antitrust enforcement. The role of insurance as a risk-sharing device is explored, along with its implications for pricing and health care utilization.

ECON 5900 Advanced Topics In Economic Analysis: 3 semester hours

Prerequisite: Consent of the instructor. Study of a specific economics topic, which may vary from semester to semester. May be taken more than once if the topic is different.

ECON 5980 Directed Readings: 1-6 semester hours

Prerequisite: Consent of the instructor. Independent study through readings, reports, research projects, and conferences.

Geography Courses

GEOG 1001 Introduction To Geography: 3 semester hours

An introduction to geography as a social science. The identification and explanation of order in the human landscape. A survey of the social, political, economic, and psychological factors which influence geographic patterns.

GEOG 1002 World Regions: 3 semester hours

Survey of the major regions of the world. Designed to give the student an awareness of the character of each of these major regions through the interrelationships of the various attributes of place. Each semester the geographic perspective will be applied in greater depth to one significant country such as Afghanistan, Iraq, or North Korea.

GEOG 2001 Cultural Geography: 3 semester hours

This course examines the effect of geography on culture and cultural groups. Essential to the geographic perspective is identifying the effect on cultures of the current trend toward increasing globalization. Topics include language, religion, attitudes, and the effect of technology. The major goals are to increase awareness of the diversity of human cultures and to prepare students for a world of increasing intercultural communication and conflict. Satisfies cultural diversity.

GEOG 4900 Advanced Readings in Geography: 3 semester hours

Prerequisite: Consent of Instructor. This course will provide a more indepth analysis of the various factors which influence geographic patterns employing methods appropriate to graduate level instruction. The topic selected will vary from semester to semester. This course may be taken for credit more than once as long as the topic discussed in each semester is different.

English

General Information

Degrees and Areas of Concentration

The English department offers or participates in offering the B.A. in English, the B.A. in English with certification for secondary teaching, and the B.S. in secondary education with an emphasis area in English. The department also offers a minor in English. Additionally, students with any major in the university may earn a Certificate in Writing so that they may demonstrate evidence of training in creative, journalistic, or technical writing.

The department has a graduate program leading to the Master of Arts degree. Students may pursue a literature track where they acquire a broad coverage in British and American writers or a writing track where half of the course work deals with composition and writing theory. The department also offers the Master of Fine Arts in creative writing, in which half of the courses are writing workshops and independent writing projects. In addition, the department of English participates in a Graduate Certificate in the Teaching of Writing.

Learning Outcomes

Recipients of the undergraduate degree will demonstrate the following outcomes:

- Demonstrate advanced skills in reading and analyzing texts and a knowledge of literary and rhetorical terms and concepts.
- Demonstrate mastery of content in at least three specific fields in language, literature, and written literacy.
- Demonstrate knowledge of historical and critical context for these fields and the relevance to them of a variety of critical approaches.
- Understand the role played by gender, race, class, and ethnicity (where appropriate) in language, literature, and literacy.
- Demonstrate the ability to write clear analytical essays incorporating both primary textual evidence and secondary scholarly and critical sources.

Departmental Honors

Candidates for departmental honors in English must achieve a 3.2 average in English at graduation and complete an undergraduate or graduate seminar in English, the final paper for which must be acceptable to the instructor as an honors thesis.

Career Outlook

In addition to traditional employment as teachers at the primary, secondary, and community-college levels, recent UMSL graduates in English are working in journalism, editing, advertising, public relations, and other fields that place a premium upon creation and interpretation of the written word. Numerous recent English majors have successfully entered law school.

Undergraduate Studies General Education Requirements

All undergraduate english majors must meet the university and college general education requirements (p. 28).

English courses may be used to meet the university's humanities requirement, except for the following:

ENGL 1100	First-Year Writing	3
ENGL 1110	First-Year Writing For International Students	3
ENGL 2120	Topics In Writing	3
ENGL 2810	Traditional Grammar	3
ENGL 3090	Writing about Literature	3
ENGL 3100	Junior-Level Writing	3
ENGL 3110	Junior Level Writing For International Students	3
ENGL 3120	Business Writing	3
ENGL 3130	Technical Writing	3
ENGL 3140	News Writing	3
ENGL 3150	Feature Writing	3
ENGL 3160	Writing In The Sciences	3
ENGL 3180	Reporting	3
ENGL 4860	Editing	3
ENGL 4880	Writing For Teachers	3
ENGL 4890	Writing Internship	3
Total Hours		48

The college's foreign language requirement may be met in any language.

Satisfactory/Unsatisfactory Option

A maximum of 6 satisfactory/unsatisfactory hours may be taken in the department. Majors must complete at least 18 graded (i.e., not satisfactory/unsatisfactory) hours in English courses at the 3000 level or above with a grade point of 2.0 or better in these courses.

English majors may take any English course on a satisfactory/ unsatisfactory basis except the following:

ENGL 1100 (p. 139)	First-Year Writing	3
ENGL 1110 (p.	First-Year Writing For International Students	3
139)		

ENGL 3090 (p. 139)	Writing about Literature	3
ENGL 3100 (p. 139)	Junior-Level Writing	3
ENGL 3110 (p. 139)	Junior Level Writing For International Students	3
ENGL 3120 (p. 139)	Business Writing	3
ENGL 3130 (p. 139)	Technical Writing	3
ENGL 3140 (p. 139)	News Writing	3
ENGL 3150 (p. 139)	Feature Writing	3
ENGL 3160 (p. 139)	Writing In The Sciences	3
ENGL 3180 (p. 139)	Reporting	3
ENGL 4860 (p. 139)	Editing	3
ENGL 4880 (p. 139)	Writing For Teachers	3
SEC ED 4885 (p. 139)	The Curriculum And Methods Of Teaching English	3
ENGL 4890 (p. 139)	Writing Internship	3

Degree Requirements Bachelor of Arts in English

English majors must complete at least 39, but no more than 48, hours in English exclusive of:

ENGL 1100 (p. 139)	First-Year Writing	3
ENGL 1110 (p. 139)	First-Year Writing For International Students	3
ENGL 3090 (p. 139)	Writing about Literature	3

Students majoring in English must take:

ENGL 2310 (p. 139)	English Literature Before 1790	3
ENGL 2320 (p. 139)	English Literature After 1790	3
ENGL 2710 (p. 139)	American Literature Before 1865	3
ENGL 2720 (p. 139)	American Literature After 1865	3
Division of the Co	Harristan and American	

Plus one of the following:

ENGL 2280 (p.	Contemporary	World Literature	
139)			

ENGL 2330 (p. Introduction To Poetry 139)

ENGL 2340 (p. Introduction To Drama 139)

3

Work in 2000-level course provides background in literary history and forms, as well as the means for discussing literary issues, on paper and orally. Thus:

- ENGL 2310 (p. 139) or consent of instructor is a prerequisite or corequisite for all 4000-level courses in British literature before 1790.
- ENGL 2320 (p. 139) or consent of instructor is a prerequisite of corequisite for all 4000-level courses in British Literature after 1790.
- ENGL 2710 (p. 139) or consent of instructor is a prerequisite or corequisite for all 4000-level courses in American Literature to 1865
- ENGL 2720 (p. 139) or consent of instructor is a prerequisite or corequisite for all 4000-level courses in American literature after 1865.
- Both ENGL 2710 (p. 139) and ENGL 2720 (p. 139) or consent of instructor are prerequisites or corequisites for ENGL 4650 (p. 139).
- All survey courses should be taken before the major has completed 90 hours toward a degree.
- ENGL 2810 (p. 139), Traditional Grammar (Students with sufficient background may gain exemption from the ENGL 2810 (p. 139) requirement by passing the English-Education Test of Basic Grammar. This test may be taken only twice.)
- ENGL 3090 (p. 139), Practical Criticism: Writing About Literature. (For English majors, this course is a prerequisite or corequisite for 4000-level courses in English.)
- 3. Upper Division Courses
 - a. Six courses (18 hours) are required at the 4000 level. Students majoring in English must take all of these hours in residence and maintain a GPA of 2.0 or better, or receive a special consent of the department.
 - b. Within the six courses listed above, three courses must fulfill distribution requirements: one course (3 hours) in British literature before 1790, one course (3 hours) in British literature after 1790, and one course (3 hours) in American literature.
 - c. If a student elects to pursue an emphasis area (EA) or areas, 3 courses (9 hours) at the 3000/4000 level are required within each emphasis area (EA). Only 1 of these courses (3 hours) may be at the 3000 level.
 - d. A student may not use the same course to satisfy both a distribution requirement and an emphasis area (EA).
 - e. In the list of 3000/4000-level courses, those courses that count in one or another emphasis area are indicated with an asterisk*.

Distribution Requirements

Distribution Requirement: British Literature to 1790

Select one of the following:	3
ENGL 4260 (p. Chaucer 139)	
ENGL 4270 (p. Medieval English Literature 139)	
ENGL 4320 (p. Sixteenth-Century Poetry and Prose 139)	
ENGL 4340 (p. Early Seventeenth Century Poetry And Prose 139)	
ENGL 4350 (p. Milton 139)	
ENGL 4370 (p. Shakespeare: Tragedies And Romances 139)	

ENGL 4380 (p. Shakespeare: Comedies And Histories 139)

ENGL 4420 (p. Age Of Dryden And Pope 139)

ENGL 4450 (p. The Eighteenth-Century English Novel 139)

ENGL 4931 (p. English Women Writers, 1300-1750 139)

Distribution Requirement: British Literature after 1790

Se	elect one of the f	ollowing:	3
	ENGL 4510 (p. 139)	Early Romantic Poetry And Prose	
	ENGL 4520 (p. 139)	Later Romantic Poetry And Prose	
	ENGL 4540 (p. 139)	The Nineteenth-Century English Novel	
	ENGL 4550 (p. 139)	Novels into Films: The Nineteenth Century	
	ENGL 4560 (p. 139)	Prose And Poetry Of The Victorian Period	
	ENGL 4580 (p. 139)	Literature Of The Late Nineteenth And Early Twentieth Centuries	
	ENGL 4750 (p. 139)	Modern British Fiction	
	ENGL 4934 (p.	Austen And The Brontes	

ENGL 4934 (p. Austen And The Brontes 139)

ENGL 4935 (p. Women Heroes And Romantic Tales 139)

Distribution Requirement: American Literature

ENGL 4610 (p. Selected Major American Writers I
139)

ENGL 4620 (p. Selected Major American Writers II
139)

ENGL 4640 (p. American Fiction To World War I
139)

ENGL 4650 (p. Modern American Fiction
139)

ENGL 4740 (p. Poetry Since World War II
139)

Emphasis Areas (EA)

Total Hours

Select one of the following:

British Literature Emphasis Area

ENGL 4260 (p. 139)	Chaucer	3
ENGL 4270 (p. 139)	Medieval English Literature	3
ENGL 4320 (p. 139)	Sixteenth-Century Poetry and Prose	3
ENGL 4340 (p. 139)	Early Seventeenth Century Poetry And Prose	3
ENGL 4350 (p. 139)	Milton	3
ENGL 4370 (p. 139)	Shakespeare: Tragedies And Romances	3

ENGL 4380 (p. 139)	Shakespeare: Comedies And Histories	3	
ENGL 4420 (p. 139)	Age Of Dryden And Pope	3	
ENGL 4450 (p. 139)	The Eighteenth-Century English Novel	3	
ENGL 4510 (p. 139)	Early Romantic Poetry And Prose	3	
ENGL 4520 (p. 139)	Later Romantic Poetry And Prose	3	
ENGL 4540 (p. 139)	The Nineteenth-Century English Novel	3	
ENGL 4550 (p. 139)	Novels into Films: The Nineteenth Century	3	
ENGL 4560 (p. 139)	Prose And Poetry Of The Victorian Period	3	
ENGL 4580 (p. 139)	Literature Of The Late Nineteenth And Early Twentieth Centuries	3	
ENGL 4750 (p. 139)	Modern British Fiction	3	
ENGL 4770 (p. 139)	Modern Poetry (also American EA)	3	
ENGL 4930 (p. 139)	Studies In Gender And Literature (also Women's/ Gender EA) *	3	
ENGL 4931 (p. 139)	English Women Writers, 1300-1750	3	
ENGL 4932 (p. 139)	Female Gothic (also Women's/Gender EA) *	3	
ENGL 4935 (p. 139)	Women Heroes And Romantic Tales	3	
ENGL 4936 (p. 139)	Tales Of The Islamic East (also Ethnic/World EA)	3	
ENGL 4950 (p. 139)	Special Topics In Literature (with at least 50% British emphasis)	3	
American Lite	rature Emphasis Area		
ENGL 4060 (p. 139)	Adolescent Literature (also Ethnic World EA) *	3	
ENGL 4610 (p. 139)	Selected Major American Writers I	3	
ENGL 4620 (p. 139)	Selected Major American Writers II	3	
ENGL 4640 (p. 139)	American Fiction To World War I	3	
ENGL 4650 (p. 139)	Modern American Fiction	3	
ENGL 4740 (p. 139)	Poetry Since World War II	3	
ENGL 4770 (p. 139)	Modern Poetry (also British EA) *	3	
ENGL 4938 (p. 139)	American Women Poets Of The 20Th/21St Centuries (also Women/Gender EA) *	3	
ENGL 4950 (p. 139)		3	
Ethnic and World Literature Emphasis Area			
ENGL 4060 (p. 139)	·	3	

ENGL 4760 (p. 139)	Modern Drama	3
ENGL 4920 (p. 139)	Major Works Of European Fiction	3
ENGL 4936 (p. 139)	Tales Of The Islamic East (also British EA) *	3
ENGL 4950 (p. 139)	Special Topics In Literature (with at least 50% Ethnic/World emphasis)	3
Women's and Ge	ender Studies Emphasis Area	
ENGL 3800 (p. 139)	Topics In Women And Literature	3
ENGL 4930 (p. 139)	Studies In Gender And Literature (also British EA) *	3
ENGL 4932 (p. 139)	Female Gothic (also British EA) *	3
ENGL 4934 (p. 139)	Austen And The Brontes	3
ENGL 4938 (p.	American Women Poets Of The 20Th/21St	3
139)	Centuries (also American EA) *	
I anguage and W	riting Emphasis Area	
ENGL 3140 (p.	News Writing	3
139)		
ENGL 3150 (p. 139)	Feature Writing	3
ENGL 3160 (p. 139)	Writing In The Sciences	3
ENGL 3180 (p. 139)	Reporting	3
ENGL 3280 (p. 139)	Public Relations Writing	3
ENGL 4160 (p. 139)	Special Topics In Writing (with at least 50% writing studies emphasis)	3
ENGL 4800 (p. 139)	Linguistics (also Theory/Criticism EA)	3
ENGL 4810 (p. 139)	English Grammar	3
139)	History Of The English Language	3
ENGL 4850 (p. 139)	Topics In The Teaching Of Writing	1-3
ENGL 4860 (p. 139)	Editing	3
ENGL 4880 (p. 139)	Writing For Teachers	3
Creative Writing		
ENGL 3030 (p. 139)	Poetry Writing Workshop	3
ENGL 3040 (p. 139)	Fiction Writing Workshop: Narrative Techniques	3
ENGL 4130 (p. 139)	Advanced Poetry Writing Workshop	3
ENGL 4140 (p. 139)	Advanced Fiction Writing Workshop	3
ENGL 4160 (p. 139)	Special Topics In Writing (with at least 50% creative writing emphasis)	3

	ENGL 4895 (p. 139)	Editing "Litmag	3
	Theory and Critic	cism Emphasis Area	
	ENGL 4030 (p. 139)	Contemporary Critical Theory	3
	ENGL 4050 (p. 139)	Forms And Modes Of Poetry	3
	ENGL 4080 (p. 139)	Narrative, Cognition, And Emotion	3
	ENGL 4160 (p. 139)	Special Topics In Writing (with at least 50% theory/criticism emphasis)	3
	ENGL 4800 (p. 139)	Linguistics (also Language/Writing EA) *	3

Denotes course listed in two emphasis areas.

Students should consult with faculty advisers to determine which upperlevel courses best satisfy their major needs and interests.

Bachelor of Arts in English with Certification for Secondary Education

All candidates for certification to teach English must enroll in a program in the College of Education involving Level I, Level II, and Level III coursework plus student teaching. See the Division of Teaching and Learning in this Bulletin for information.

In addition to the requirements for the B.A. in English, students must meet the following requirements for secondary certification:

Two courses in American literature. This requirement may be met by courses counted for the major.

American literature must include a unit or course in the literature of ethnic groups.

American literature must include a unit or course in literature for adolescents

Twelve hours in composition and rhetoric:

ENGL 1100 (p. 139)	First-Year Writing (may be counted)	3
ENGL 3090 (p. 139)	Writing about Literature (is required)	3
ENGL/SEC ED 4880 (p. 139)	Writing For Teachers (is required)	3
Recommended coupusiness writing	ourses include creative writing, journalism, and	3
Total Hours		12
ENGL 1100 (p. 139)	First-Year Writing (may be counted)	3
ENGL 3090 (p. 139)	Writing about Literature (is required)	3
ENGL/SEC ED 4880 (p. 139)	Writing For Teachers (is required)	3
Recommended coupusiness writing	ourses include creative writing, journalism, and	3
Total Hours		12

English language requirements

- ENGL 2810 (p. 139), Traditional Grammar Students with sufficient background may gain exemption from the ENGL 2810 (p. 139) requirement by passing the English-Education Test of Basic Grammar. This test may be taken only twice. Certification candidates must pass ENGL 2810 (p. 139) or the Test of Basic Grammar before applying for student teaching.
- 2., English Grammar
- 3. ENGL 4800 (p. 139), Linguistics, or ENGL 4820 (p. 139), History of the English Language

Bachelor of Science in Secondary Education with an Emphasis Area in English

All candidates for certification to teach English must enroll in a program in the College of Education involving Level I, Level II, and Level III coursework plus student teaching. See the Division of Teaching and Learning in this Bulletin for information.

The required courses in English and professional education are the same as those for the B.A. with certification for secondary education. However, students fulfill the general education requirements of the College of Education rather than those of the College of Arts and Sciences. For example, students seeking the B.S. in Education are not required to study a foreign language.

Certification to Teach Secondary Speech and Drama

All candidates for certification to teach Speech and Drama must enroll in a program in the College of Education involving Level I, Level II, and Level III coursework plus student teaching. See the Division of Teaching and Learning in this Bulletin for information.

In addition, undergraduates who wish to be certified to teach Speech and Drama must meet the requirements for a major in Communication as well as requirements set by the Theatre faculty.

Minor in English

A student may minor in English by taking at least 18 hours of English courses exclusive of Basic Writing, , First Year Writing, and ENGL 1110 (p. 139), First Year Writing for International Students. is required, and 12 of the 18 hours must be in literature courses, 9 of which must be in courses at the 3000 or 4000 level. ENGL 3090 (p. 139) is required, and 12 of the 18 hours must be in literature courses, 9 of which must be in courses at the 3000 or 4000 level. Every student taking a minor in English must consult with an adviser in the English department to ensure a coherent program of studies. The GPA in courses for the minor must be 2.0 or better. Nine of the 18 hours must be taken in residence at UMSL. No more than 3 hours taken on a satisfactory/unsatisfactory basis may be counted toward the 18-hour minimum.

Professional Writing Certificate

Students earn the Professional Writing Certificate by completing 18 hours in selected writing courses with a grade point average of 3.0 or better. Twelve of the 18 hours must be taken at the University of Missouri-St. Louis. Courses may not be taken on a satisfactory/unsatisfactory basis.

MEDIA ST 2212 (p. 139)	Broadcast Writing And Reporting	3
ENGL 2810 (p. 139)	Traditional Grammar	3
ENGL 2030 (p. 139)	Beginning Poetry Writing Workshop	3
ENGL 2040 (p. 139)	Beginning Fiction Writing	3
ENGL 2080 (p. 139)	Advertising Copywriting	3
or MEDIA ST 208 (p. 139)	0Advertising Copywriting	
ENGL 2120 (p. 139)	Topics In Writing	3
ENGL 3030 (p. 139)	Poetry Writing Workshop	3
ENGL 3040 (p. 139)	Fiction Writing Workshop: Narrative Techniques	3
ENGL 3090 (p. 139)	Writing about Literature	3
ENGL 3100 (p. 139)	Junior-Level Writing	3
ENGL 3110 (p. 139)	Junior Level Writing For International Students	3
ENGL 3120 (p. 139)	Business Writing	3
ENGL 3130 (p. 139)	Technical Writing	3
ENGL 3140 (p. 139)	News Writing	3
or MEDIA ST 321 (p. 139)	² News Writing	
ENGL 3150 (p. 139)	Feature Writing	3
ENGL 3160 (p. 139)	Writing In The Sciences	3
ENGL 3180 (p. 139)	Reporting	3
ENGL 3280 (p. 139)	Public Relations Writing	3
or MEDIA ST 222 (p. 139)	Public Relations Writing	
ENGL 4130 (p. 139)	Advanced Poetry Writing Workshop	3
ENGL 4140 (p. 139)	Advanced Fiction Writing Workshop	3
ENGL 4160 (p. 139)	Special Topics In Writing	3
ENGL 4810 (p. 139)	English Grammar	3
ENGL 4850 (p. 139)	Topics In The Teaching Of Writing	1-3
ENGL 4860 (p. 139)	Editing	3
ENGL 4880 (p. 139)	Writing For Teachers	3

ENGL 4890 (p. 139)	Writing Internship ¹	3
ENGL 4892 (p. 139)	Independent Writing Project	3
ENGL 4895 (p. 139)	Editing "Litmag	3
HONORS 3100 (p. 139)	Honors Advanced Composition: Writing The City	3

This course is required. It is to be taken as the last course a student will take in the program, and it is to be used to generate an extensive final project or internship.

Creative Writing Certificate

Students earn the Certificate in Writing by completing 18 hours in selected writing courses with a grade point average of 3.0 or better. The creative writing emphasis focuses the students' efforts toward producing original fiction or poetry and can include other literary endeavors such as writing creative nonfiction, editing, feature writing, and copywriting. The specific requirements for the Creative Writing emphasis are listed below.

Courses for the certificate should be chosen with the guidance of the Writing Certificate Coordinator. If the student elects to complete ENGL 4890 (p. 139) as one of the courses for the certificate, he or should schedule a meeting with the coordinator to make arrangements for the internship.

When the student has completed requirements for the certificate, the coordinator will notify the university registrar and the college from which the student will graduate. Upon the student's graduation, completion of the Certificate in Writing will be noted on the official transcript and a certificate will be mailed to the student's residence. Students who have graduated before completing the Certificate in Writing will receive the certificate in the mail and will have the certificate entered on their official transcripts.

To receive this certificate, the student must take 18 hours chosen from the courses listed below.

6

Select at least two of the following: 1	6
ENGL 3030 (p. Poetry Writing Workshop 139)	
ENGL 3040 (p. Fiction Writing Workshop: Narrative Techniques 139)	
ENGL 4130 (p. Advanced Poetry Writing Workshop 139)	
ENGL 4140 (p. Advanced Fiction Writing Workshop 139)	
ENGL 4895 (p. Editing "Litmag 139)	
2000-level Courses ²	

2000-level Cours	ses ²	
ENGL 2030 (p. 139)	Beginning Poetry Writing Workshop	3
ENGL 2040 (p. 139)	Beginning Fiction Writing	3
ENGL 2330 (p. 139)	Introduction To Poetry	3
ENGL 2340 (p. 139)	Introduction To Drama	3
Creative Writing	and Literature Courses	

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ENGL 3030 (p. 139)	Poetry Writing Workshop	3
ENGL 3040 (p. 139)	Fiction Writing Workshop: Narrative Techniques	3
ENGL 3090 (p. 139)	Writing about Literature	3
ENGL 3100 (p. 139)	Junior-Level Writing	3
ENGL 4130 (p. 139)	Advanced Poetry Writing Workshop	3
ENGL 4140 (p. 139)	Advanced Fiction Writing Workshop	3
ENGL 4160 (p. 139)	Special Topics In Writing	3
ENGL 4890 (p. 139)	Writing Internship	3
ENGL 4892 (p. 139)	Independent Writing Project	3
ENGL 4895 (p. 139)	Editing "Litmag	3
Professional Wri	iting Courses ³	
ENGL 2080 (p. 139)	Advertising Copywriting	3
or MEDIA ST 208 (p. 139)	(Advertising Copywriting	
ENGL 3150 (p. 139)	Feature Writing	3
or MEDIA ST 315 (p. 139)	0Feature Writing	
ENGL 4860 (p. 139)	Editing	3

Description Advices and Advantage and

- At least one must be a 4000-level course.
- Students may take no more than two 2000-level courses
- 3 Students are encouraged to take at least one professional writing course, but no more than two.

This capstone course may be:

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ENGL 4895 (p. 139)	Editing "Litmag	3
ENGL 4890 (p. 139)	Writing Internship	3
ENGL 4140 (p. 139)	Advanced Fiction Writing Workshop	3
ENGL 4130 (p. 139)	Advanced Poetry Writing Workshop	3

If ENGL 4890 (p. 139) is used, it will be an internship in literary publishing, feature writing, or advertising copywriting. To use ENGL 4130 (p. 139) or , the student must obtain the teacher's permission and do extra work in the course. The editing Litmag course, ENGL 4895 (p. 139), may also be used as the final course for this certificate.

Technical Writing Emphasis

The technical writing emphasis provides a more career-specific strategy for students enrolled in the Writing Certificate program. The technical writing emphasis is composed of:

Required Courses

•		
ENGL 3130	Technical Writing	3
ENGL 4860	Editing	3
ENGL 4890	Writing Internship	3
Electives		
Select three of the	e following:	9
Business Adn	ninistration	
INFSYS 1800	Computers And Information Systems	
Media		
MEDIA ST 106	Introduction To Information Technology	
Computer Sci	ence	
CMP SCI 1250	Introduction To Computing ¹	
English		
ENGL 3120	Business Writing	
ENGL 3140	News Writing	
ENGL 3150	Feature Writing	
ENGL 3160	Writing In The Sciences	
ENGL 3280	Public Relations Writing	
ENGL 4890	Writing Internship ³	

- ¹ Prerequisite: MATH 1030, College Algebra
- ² If ENGL 4890 is taken as requirement.

Graduate Studies

Total Hours

Admission Requirements

To enter the graduate program in English a candidate must satisfy the requirements both of the Graduate School and the Department of English. A candidate should have a bachelor's degree, with at least 18 hours in English above the freshmen level, 12 of which must be in literature. Normally, only students with a grade point average of 3.0 in undergraduate English courses and an overall undergraduate average of 2.75 will be considered. Though the English department welcomes scores from the Graduate Record Aptitude Exam and letters of recommendation, it does not require either of these. (Students applying for Teaching Assistantships, please see "Financial Aid and Teaching Assistantships.")

The graduate coordinator of the English Department with the advice of the graduate committee will use the undergraduate record and, and if available, the scores of the GRE general test as the basis for a decision. We welcome letters of recommendation from the applicant's former English instructors and a sample of expository prose. Applications to the MA in English are considered at all times. However, because spaces in graduate courses are limited, it is strongly advised that prospective students submit their applications well before the semester begins in order to gain admission into their appropriate classes.

Teaching Assistantships

A number of teaching assistantships are available for qualified applicants. In addition to the undergraduate record and the scores on the GRE general test, applications should include two letters of recommendation from former English instructors. Applications should be submitted to the graduate coordinator of the English department no later than March 15 preceding the academic year for which the appointment is desired.

Degree Requirements Master of Arts in English

In addition to the Graduate School requirements, students must complete at least 36 hours, 24 hours of which must be in 5000-level courses. Twelve hours may be taken in 4000-level courses approved by the department and Graduate School.

Required of both concentrations, literature and writing studies:

ENGL 5000 (p. 139): Introduction to Graduate Study in English.
 Focuses upon bibliography, research methods, and literary criticism.
 Should be taken at the outset of the program, for graduate (not undergraduate) credit.

Students who choose a literature track must also take at least one course in each of the following six areas:

- · Area 1, British literature before 1660
- Area 2, British literature between 1660 and 1900
- Area 3, Twentieth-century literature (British, American, post-colonial, or in translation)
- · Area 4. American literature
- Area 5, Theories of writing, criticism, language, and/or culture
- Area 6, Literature in translation study of a particular literary genre, or a course in another relevant discipline

Students who choose the writing studies track must take:

- 18 hours in literature courses providing broad coverage rather than a narrow focus on a particular genre or historical period (ENGL 5000 (p. 139) constitutes three of these required literature credits)
- 18 hours in writing studies courses (including ENGL 5840 (p. 139))

If students choose the thesis option (6 hours) they will take 15 hours in literature and 15 hours in writing studies.

Thesis Options

Students may elect the thesis option, which requires a total of 6 hours of thesis credit. The thesis will engage the student in sustained and self-motivated study through the processes of research, conferring with advisors, drafting and revising text. The thesis must be approved and assigned a grade by a thesis committee. The student will select a major professor who, after consulting with the chair and the graduate coordinator, will select two other members of the committee.

Literature Emphasis: The thesis should demonstrate original thought and substantial research and may be a critical study of literary works or a theoretical exploration of issues related to literature.

Writing Studies Emphasis: The final document will demonstrate significant familiarity with scholarship in Writing Studies through the critical analysis and clear synthesis of published research, observational data (where appropriate) and the student's thoughts/views/reflections/positions. The thesis may be a critical study, theoretical exploration or descriptive

assessment of fieldwork drawing on writing, language, rhetorical, sociocultural or reading theories; literacy; and the history of writing instruction; composition pedagogies; technologies.

Master of Fine Arts in Creative Writing

The application process is identical to that for the master of arts degree, with these exceptions: there is one annual deadline for all applications, Feb. 15; a writing sample is required (15-20 poems or 20-40 pages of fiction); the GRE test is required only if the applicant seeks financial aid or a teaching assistantship.

In addition to the Graduate School requirements, students must complete at least 39 hours, 30 of which must be in 5000-level courses. Nine hours may be taken in 4000-level courses approved by the department and Graduate School. Students will specialize in one genre, poetry or fiction. They must complete the following course work: 15 hours of workshops, three hours of literary journal editing (ENGL 5190 (p. 139)), 3 hours of either ENGL 5170 (p. 139) or ENGL 5180 (p. 139) depending on specialization (fiction writers take ENGL 5170 (p. 139) and poets take ENGL 5180 (p. 139)), 3 hours thesis (ENGL 6010 (p. 139)). Total designated hours, 24. Any of the following can make up the remaining 15 hours, but we especially recommend the first three:

- 1. ENGL 5180 (p. 139) for fiction writers and ENGL 5170 (p. 139) for poets, the opposite of the students' specialization.
- A contemporary literature class offered by the MFA program or the MA program
- A composition theory course, recommended mainly for those who want to teach later
- 4. another workshop
- 5. ENGL 5190 (p. 139), literary journal editing, a second time
- 6. Any other graduate level class in literature, linguistics, or composition offered by the Department of English
- 5200-MFA readings course, or an independent study-IF you can find someone to work with you.
- Up to 3 (9 hours) of 4000 level undergrad lit or linguistics classes offered by the Department of English, recommended especially for those without an English background.
- One three hour class outside the Department of English, at least a 4000 level, and with all needed permissions from both departments that will enhance the student's writing.

Complete information may be found in The Master of Fine Arts in Creative Writing, available from the English department.

Graduate Certificate in the Teaching of Writing, Gateway Writing Project.

Jointly housed in the Division of Teaching and Learning and the Department of English, this Graduate Certificate prepares teachers at all levels (K-12, college, adult) to improve their students' performance in writing. The program also emphasizes using writing as a means to promote learning in all content areas. All courses provide opportunities for teachers to write, revise, share feedback, and reflect on their own writing development. Based on the National Writing Project's core belief that teachers of writing must themselves be writers, the Graduate Certificate in the Teaching of Writing brings together sound pedagogy, composition theory, and writing practice.

The Certificate is an 18-hour program through the Gateway Writing Project (GWP); it may also be coordinated with other graduate programs.

Certificate courses may be applicable to the M.A. in English with emphasis in composition or to various M.Ed. programs. The GWP Certificate is especially appropriate for post-master's candidates who wish to pursue a specialization in teaching writing. The Graduate Certificate in the Teaching of Writing requires a 12 semester-hour core of courses developed by the Gateway Writing Project: The GWP invitational institute (6 hrs), a designated "topics" course (3 hrs.), and an exit course (3 hrs.). The Certificate requires a minimum of 12 semester hours at the 5000 or 6000 level or above. Electives (6 hrs.) may be chosen from approved offerings in English or Education.

Admission

Applicants must be admitted to Graduate School and be selected by the faculty admissions committee for the Gateway Writing Project's Certificate in the Teaching of Writing. The committee will review candidates on the basis of an interview, an application essay, and supporting documentation. Criteria include experience teaching writing at any level and academic record, especially in writing and the teaching of writing.

Prerequisites

ENGL/SEC ED Writing For Teachers (or an equivalent course in 4880 (p. 139) teaching writing)

Coursework or competency in basic computer application.

Required Core Courses

ENGL 4850/ TCH ED 5850 (p. 139)	Topics In The Teaching Of Writing (designated topics)	3
ENGL 6880 (p. 139)	Gateway Writing Project	6
TCH ED 6890 (p. 139)	Seminar In Professional Writing For Teachers (exit course)	3
Total Hours		12

Electives

Electives may be chosen from other Gateway Writing Project offerings or from courses offered by the appropriate academic department with advisor's approval. These electives must include at least one more 5000-6000 level course.

Electives

Suggested electives applicable to an MA in English with writing emphasis:

ENGL 5800 (p. Modern Linguistics

139)

ENGL 5840 (p. Theories Of Writing

139)

ENGL 5860 (p. Writing/Reading Theory

139)

ENGL 5870 (p. Composition Research

139)

ENGL 5890 (p. Teaching College Writing

139

Suggested electives applicable to an M.Ed. in Elementary or Secondary Education ELE:

ELE ED 6387 Literacy Acquisition And Learning For Diverse (p. 139) Students

	Problems And Research In Teaching Elementary School
ED REM 6714 (p. 139)	Action Research In Education

Total Hours 6

Courses in adult and higher education may also be appropriate. For complete information, see The GatewayWriting Project's Graduate Certificate in Teaching Writing, available from the English Department, the Division of Teaching and Learning, and the GWP Director.

Courses in this section are grouped as follows: Composition; Language; Literature; and Special Offerings.

Composition Courses:

ENGL 1100 First-Year Writing: 3 semester hours

Integrates critical reading, writing, and thinking skills and studies actual writing practices. Sequenced reading and writing assignments build cumulatively to more complex assignments. Includes formal and informal writing, drafting and revising, editing for correctness, synthesizing source material, and documenting sources accurately. Fulfills 3 hours of the General Education requirement for Communicating Skills. Does not count toward the major in English.

ENGL 3100 Junior-Level Writing: 3 semester hours

Prerequisites: ENGL 1100 or equivalent (3-6 credit hours) and 56 credit hours. Focuses on writing and literacies in various contexts. Builds on intellectual maturity, knowledge, and abilities gained through prior university studies. Enhances analytical, communicative, persuasive, and explanatory capabilities. Includes complex readings and research. Fulfills the university's requirement for a junior-level course in Communicative Skills. Counts toward the Certificate in Writing. May not be taken on a satisfactory/unsatisfactory basis.

Writing Courses:

6

ENGL 1100 First-Year Writing: 3 semester hours

Integrates critical reading, writing, and thinking skills and studies actual writing practices. Sequenced reading and writing assignments build cumulatively to more complex assignments. Includes formal and informal writing, drafting and revising, editing for correctness, synthesizing source material, and documenting sources accurately. Fulfills 3 hours of the General Education requirement for Communicating Skills. Does not count toward the major in English.

ENGL 1110 First-Year Writing For International Students: 3 semester hours

Prerequisite: Essay proficiency test or a TOFEL score off 500 or above. Designed for any student whose first language is not English. Integrates critical reading, writing, and thinking skills and studies actual writing practices. Sequenced reading and writing assignments build cumulatively to more complex assignments. Includes formal and informal writing, drafting and revising, editing for correctness, synthesizing source material, and documenting sources accurately. Special attention given to verb tenses, idioms, articles, and syntax. Does not count toward the major in English. Substitutes for ENGL 1100 in all university requirements.

ENGL 2030 Beginning Poetry Writing Workshop: 3 semester hours

Prerequisites: ENGL 1100 or equivalent An introduction to the writing of poetry and an exploration of contemporary poems as models for the writer. Students who have taken ENGL 2060 may not take ENGL 2030 for credit. The course counts toward the Certificate in Writing.

ENGL 2040 Beginning Fiction Writing: 3 semester hours

Prerequisites: ENGL 1100 or equivalent. An introduction to the writing of fiction and an exploration of contemporary short stories as models for the writer. Students who have taken English 2060 may not take ENGL 2040 for credit. The course counts toward the Certificate in Writing.

ENGL 2080 Advertising Copywriting: 3 semester hours

Same as MEDIA ST 2080. To give students a hands-on approach for writing advertising material for print and broadcast against tight deadlines in a professional setting.

ENGL 2120 Topics In Writing: 3 semester hours

Prerequisite: ENGL 1100 or ENGL 1110. This course will introduce the student to writing in specific areas. The department will announce topics and course content in the schedule. Possible topics are argumentation, reading and writing about public affairs, sports reporting and writing, and writing about science. A student may repeat the course once when topics are different. The course counts toward the certificate in writing.

ENGL 3030 Poetry Writing Workshop: 3 semester hours

Prerequisite: ENGL 1100 or the equivalent or consent of instructor. Workshop in poetry writing that may also focus on close reading of published works and poetic forms. May be repeated once for a total of 6 credit hours. Counts toward the Certificate in Creative Writing, and if taken twice, the second time counts toward the Emphasis in Creative Writing for English majors.

ENGL 3040 Fiction Writing Workshop: Narrative Techniques: 3 semester hours

Prerequisite: ENGL 2040 or ENGL 2060 or the equivalent or consent of instructor. Workshop in fiction writing. The course counts toward the Certificate in Writing.

ENGL 3090 Writing about Literature: 3 semester hours

Prerequisites: ENGL 1100 Or Equivalent (3-6 credit hours) and 56 credit hours. Acquaints students with the basic methods of literary criticism and trains them in explicating particular texts and writing about literature. Introduces students to basic research and proper MLA documentation. Required of all English majors. Does not count toward the major in English. May not be taken on satisfactory/unsatisfactory option. Counts toward the Certificate in Writing.

ENGL 3100 Junior-Level Writing: 3 semester hours

Prerequisites: ENGL 1100 or equivalent (3-6 credit hours) and 56 credit hours. Focuses on writing and literacies in various contexts. Builds on intellectual maturity, knowledge, and abilities gained through prior university studies. Enhances analytical, communicative, persuasive, and explanatory capabilities. Includes complex readings and research. Fulfills the university's requirement for a junior-level course in Communicative Skills. Counts toward the Certificate in Writing. May not be taken on a satisfactory/unsatisfactory basis.

ENGL 3110 Junior Level Writing For International Students: 3 semester hours

Prerequisites: ENGL 1110 or equivalent (3-6 credit hours) and 56 credit hours. Designed for any student whose first language is not English. Builds on intellectual maturity, knowledge, and abilities gained through prior university studies. Enhances analytical, communicative, persuasive, and explanatory capabilities in contemporary American English. Includes formal research and documentation methods from a variety of fields. Emphasizes students' reading abilities, both comprehension and vocabulary. Fulfills the university's requirement for a junior-level course in Communicative Skills. Counts toward the Certificate in Writing. May not be taken on a satisfactory/unsatisfactory basis.

ENGL 3120 Business Writing: 3 semester hours

Prerequisites: ENGL 1100 or equivalent (3-6 hours) and junior standing. This course further develops the experienced writer's style and analytical capabilities to the level of sophistication necessary for upper-division writing assignments and for business and professional settings. Writing assignments may include business correspondence, reports, resumes, proposals, analyses, feasibility studies, and articles for in-house publications. The course emphasizes clarity, consciseness, organization, format, style, tone and mechanical correctness; expands upon students' research and documentation skills; and requires research in university libraries. Fulfills the University's requirement for a junior-level course in communicative skills. It may not be taken on a satisfactory/unsatisfactory basis.

ENGL 3130 Technical Writing: 3 semester hours

Prerequisite: ENGL 1100 or equivalent (3-6 hours) and junior standing. The major elements of industrial technical writing. Writing assignments include technical definitions, abstracts and summaries, mechanism descriptions, instructions, process analyses, technical reports and proposals. Emphasis is placed on clarity, conciseness, organization, format, style and tone. The course includes an introduction to research methods and documentation. All readings are selected from industrial material. Fulfills the University requirement for junior-level course in communicative skills, subject to the approval of the student's major department. May not be taken on the satisfactory/unsatisfactory option.

ENGL 3140 News Writing: 3 semester hours

Same as MEDIA ST 3214. Prerequisite: ENGL 1100 or equivalent. An introduction to news writing and reporting. Course covers basic components of news, reporting principles, and news writing style and structure. Daily writing assignments include coverage of speeches, meetings and interviews, accidents, deaths, courts, sports, consumer affairs and government. Emphasis on clarity, accuracy and speed. The course counts toward the Certificate in Writing.

ENGL 3150 Feature Writing: 3 semester hours

Same as MEDIA ST 3150. Prerequisite: ENGL 1100 or equivalent. Study of freelance and staff-written magazine or newspaper feature articles. Emphasis on relationship between types of publication and article content, research methods, and writing style. Frequent short assignments -- journal entries, interviews, library projects, article critiques, and market reports -- lead to production of full-length feature articles. May not be taken on the S/U option. The course counts toward the Certificate in Writing.

ENGL 3160 Writing In The Sciences: 3 semester hours

Prerequisites: ENGL 1100 or equivalent (3-6 hours) and junior standing Designed to teach students how to write effectively in the sciences. Writing assignments include short reports, proposals and a major project. Students are encouraged to select projects that will reflect work in a science course which may include a research or analytical report, a formal proposal or a procedures/instructions manual. Emphasis is placed on clarity, conciseness, organization, format, style, and tone. The course will include an introduction to research methods and documentation. Fulfills the University requirement for a junior-level course in communicative skills, subject to the approval of the student's major department. May not be taken on the satisfactory/unsatisfactory option.

ENGL 3180 Reporting: 3 semester hours

Same as MEDIA ST 3180. Prerequisite: ENGL 3140 or equivalent. Theory and practice of reporting news for publication in the print media. Includes one classroom session and one field assignment weekly. Stories must be filed within deadline limits. Writing emphasis is on clarity, conciseness, and accuracy. The course counts toward the certificate in writing.

ENGL 3280 Public Relations Writing: 3 semester hours

Prerequisite: ENGL 3100 or equivalent. An introduction to the process of planning, producing, and evaluating written public relations messages. Writing assignments includemedia releases. letters, memos, position papers, background papers, brochures, and reports and proposals.

ENGL 4130 Advanced Poetry Writing Workshop: 3 semester hoursPrerequisites: ENGL 3100 or equivalent; ENGL 2030 or ENGL 3030 or consent of instructor. Advanced workshop in poetry writing. The course counts toward the Certificate in Writing.

ENGL 4140 Advanced Fiction Writing Workshop: 3 semester hoursPrerequisites: ENGL 3100 or equivalent; ENGL 2040 or equivalent or consent of instructor. Advanced workshop in fiction writing. The course counts toward the certificate in Writing.

ENGL 4160 Special Topics In Writing: 3 semester hours

Prerequisites: ENGL 3100 or equivalent. Special topics in writing that are not covered in other 4000level English courses. Since the topics of ENGL 4160 may change each semester, the course may be repeated for credit if the topics are substantially different.

ENGL 4850 Topics In The Teaching Of Writing: 1-3 semester hours
Same as TCH ED 5850. Prerequisites: ENGL 3100 or equivalent Special topics in the practice of and pedagody of writing designed for in-service teachers. Topics may include writing at specific grade levels, writing/ reading workshops, writing in urban settings, writing across the curriculum, action research, new technology, classroom and district-level assessment. May be repeated once for credit if topics differ. Counts toward Certificate in Writing.

ENGL 4860 Editing: 3 semester hours

Prerequisites: ENGL 3100 or its equivalent as judged by instructor; English ENGL or ENGL 4810. Introduction to the language and processes of editing. Includes copy editing, the study of style manuals, and an overview of the production process. Counts toward requirement for the Writing Certificate.

ENGL 4880 Writing For Teachers: 3 semester hours

Same as SEC ED 4880. Prerequisite: ENGL 3090 or junior level English. Writing for Teachers is an English-education course that supports writing across the curriculum for both pre-service English and content area teachers. Teacher candidates learn writing theories and literacy strategies to help their future students construct meaning from their discipline. The course works best for those who are completing level II or beginning level III education courses. The course counts toward the Certificate in Writing.

ENGL 4890 Writing Internship: 3 semester hours

Prerequisites: ENGL 3100 or its equivalent as judged by the instructor. Course limited to students who are completing certificates in writing. May be taken concurrently with the final course in the certificate sequence. Students work in a supervised internship to complete professional writing assignments. Special consent form required.

ENGL 4892 Independent Writing Project: 3 semester hours

Prerequisites: ENGL 3100 or equivalent as judged by instructor. Course limited to students who are completing their certificates in writing. May be taken concurrently with the final course in the certificate sequence. Students work individually with an instructor to complete an extensive creative writing or critical analysis writing project. This course is available on a limited basis only with the approval of the Coordinator and faculty sponsor. Special consent form is required.

ENGL 4925 The Short Story in World Literature: 3 semester hours Students will read a wide variety of short fiction, from very brief pieces to novellas, including stories from all over the world and from several different centuries either in translation or in the original English. The course will also cover short theoretical works on narrative and critical commentaries on some of the fiction.

ENGL 5100 Graduate Workshop In Poetry: 3 semester hours

Prerequisites: Open to students in the creative writing program and to others with permission of instructor. Consists of a writing workshop in which the poetry written by the students enrolled in the course is discussed and analyzed by the intructor and members of the class. Students taking this course will be expected to write original poetry throughout the course. May be repeated for maximim graduate credit of fifteen (15) hours.

ENGL 5110 Graduate Workshop In Fiction: 3 semester hours

Prerequisites: Open to students in the creative writing program and
to others with permission of instructor. Consists of a writing workshop
in which the fiction (short stories or chapters of a novel) written by the
students enrolled in the course is discussed and analyzed by the instructor
and members of the class. Students taking this course will be expected to
write original fiction thoughout the course. May be repeated for maximum
graduate credit of fifteen (15) hours.

ENGL 5130 Graduate Workshop In The Novel: 3 semester hoursPrerequisites: Permission of instructor, based on submission of sample of novel manuscript A writing workshop in which a novel written by the student is discussed and analyzed by the instructor and members of the class. Students must have a complete novel manuscript (50,000 words minimum) ready for discussion by the beginning of class. May be repeated for maximum graduate credit of fifteen (15) hours.

ENGL 5140 Graduate Workshop In Nonfiction: 3 semester hoursPrerequisites: Open to students in the MFA program and to others with permission of instructor. A variable-topics writing workshop focusing on one or more of the following forms: personal essay, memoir, travel writing, literary journalism, biography, or other types of literary nonfiction. May be repeated for maximum graduate credit of fifteen (15) hours.

ENGL 5170 Techniques, Methods, And Effects In Fiction Writing: 3 semester hours

Prerequisite: Open to students in the MFA program and to others with consent of the instructor. This course analyzes the technical choices made by important contemporary fiction writers in the areas of point of view, tone, setting, form, and plot structure, and it examines the effects of those choices. Close consideration is given to fictional techniques that contribute to a story's characterization, tension, interest, reliability, drama, irony, and humor. The course is primarily for creative writers.

ENGL 5190 Literary Journal Editing: 3 semester hours

Prerequisites: Open to students in the MFA program who have had at least two graduate writing workshops and to others with consent of the instructor. In this course students serve as the first readers of all submissions to the university's literary magazine, Natural Bridge. Students will read and evaluate poems, short stories, and essays and recommend a body of work to the editorial board of the magazine. The editorial board will then consider the class consensus in its final selection of material for publication. In addition to this primary task of editorial selection, students will also be involved in the productions of an issue of the magazine. May be repeated for maximum graduate credit of nine hours.

ENGL 5200 MFA Readings: 3 semester hours

Prerequisites: Open to students in the MFA program and to others with consent of the instructor. This is an independent reading course. In consultation with an MFA faculty member, students choose works from the MFA Reading List and read them with the goal of broadening and sharpening their technical skills as writers. Students ordinarily choose works in one genre: poetry, the short story, or the novel. Each week the student reads and reports on at least one work. The course may be taken only once.

ENGL 5840 Theories Of Writing: 3 semester hours

An analysis of major modern theories in composition.

ENGL 5850 Studies In Composition: 3 semester hours

The study of special topics in composition. Topics may include history of composition, psychology of writing, reader response theory, etc.

ENGL 5860 Writing/Reading Theory: 3 semester hours

This course studies the parallel evolution of reading and writing theory and pedagogy. Topics include the influence of psycholinguistics and reader-response theory and the link between reading and writing theory and instruction.

ENGL 5870 Composition Research: 3 semester hours

This course equips students both to analyze and conduct research in composition. Coursework will teach students to evaluate methodologies and implications, to analyze data, and to design their own research projects.

ENGL 5890 Teaching College Writing: 3 semester hours

This course provides the opportunity for practical application of composition theory with an emphasis on improving teaching skills. Strongly recommended for graduate teaching assistants.

ENGL 6010 Final Writing Project: 3-6 semester hours

Prerequisite: Successful completion of 15 hours in graduate creative writing courses or permission of instructor. An independent writing tutorial taken by students after they have completed all other creative writing course work. Completion of the project requires a substantial body of original poetry or fiction. May be repeated for a maximum of six (6) hours.

ENGL 6880 Gateway Writing Project: 3-6 semester hours

Same as TCH ED 6880. An intensive course in the writing process and the writing curriculum, designed for experienced teachers. Readings of current theory and research will be related to participants' experience as writers and as teachers. Topics may vary. May be repeated for credit. No more than 6 hours may be applied toward the M.Ed. Counts toward the Graduate Certificate in Teaching Writing.

Language Courses:

ENGL 2810 Traditional Grammar: 3 semester hours

An introduction to the terms and concepts of traditional grammar, beginning with functions of the noun and forms of the verb in simple sentences, moving to more complex structures such as subordinate clauses and verbal phrases, and ending with the application of this material to issues of Standard English.

ENGL 4800 Linguistics: 3 semester hours

Prerequisites: ENGL 3100; majors, ENGL 3090. A survey of linguistics with emphasis on what the field reveals about the English language. Topics include the sounds of language, grammar, writing systems, language acquisition, language in society, language history, dialects, and usage.

ENGL 4810 English Grammar: 3 semester hours

Prerequisites: ENGL 3100; majors, ENGL 3090; ENGL 2810 or passing grade on English-Education Test of Basic Grammar A study of modern English grammar from the perspectives of traditional, structural, and transformational grammar.

ENGL 4820 History Of The English Language: 3 semester hours

Prerequisites: ENGL 3100 or equivalent A historical survey of the English language from its IndoEuropean roots through Old and Middle English to the present. Topics include changes in sound, meaning, and grammar, as well as developments in American English, including regional and social dialects.

ENGL 5800 Modern Linguistics: 3 semester hours

Prerequisite: None. A study of selected topics in the structure of the English language, combining readings in current linguistics publications with original research.

Literature Courses:

ENGL 1120 Introduction to Literature: 3 semester hours

The student is introduced to the various literary types, including poetry, drama, fiction, and the essay.

ENGL 1170 American Literary Masterpieces: 3 semester hours

An introduction to major authors, works, and themes in American Literature from the nineteenth century to the present.

ENGL 1175 Arts And Ideas: 3 semester hours

Same as Art History 1175, History 1175, Music 1175, Philosophy 1175, Theatre and Dance 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

ENGL 1710 Native American Literature: 3 semester hours

The Course Surveys The Literature Of American Indians From Its Oral Tradition Of Myth, Legend, Song And Oratory Through Its Modern Forms. The Course Satisfies The Ethnic Literature Requirement For Missouri State Certification In Secondary Education And The College Of Arts And Sciences Non-Euro-American Study Requirement. (Same As Anthropology 1710).

ENGL 1950 Topics In Literature: 3 semester hours

This course will introduce the student to selected literary topics and/or genres. Each semester the department will announce topics and course content. Topics such as alienation, justice, and the absurd, and genres such as science fiction and contemporary drama are typical possibilities.

ENGL 2240 Literature Of The Old Testament: 3 semester hours A comprehensive understanding of the Old Testament, its literary

A comprehensive understanding of the Old Testament, its literary background and significance for western civilization.

ENGL 2250 Literature Of The New Testament: 3 semester hours

A comprehensive understanding of the New Testament, its literary background and significance for western civilization.

ENGL 2280 Contemporary World Literature: 3 semester hours

Selected World Literature from the 20th and 21st centuries with emphasis on non-European literatures. This course may include works from Europe, Latin American, the Middle East, Africa, and Asia; it excludes literature from the United States and England. It satisfies the cultural diversity requirement of UMSL.

ENGL 2310 English Literature Before 1790: 3 semester hours

The development of English literature from the Middle Ages through the eighteenth century. Introduces students to major literary movements and themes through the reading and analysis of representative works of selected major authors.

ENGL 2320 English Literature After 1790: 3 semester hours

The development of English Literature from the beginning of the nineteenth century. Introduces students to major literary movements and themes through the reading and analysis of representative works of selected major authors.

ENGL 2330 Introduction To Poetry: 3 semester hours

A close study of poems, with special emphasis on the varieties of poetic form, and the means of interpretation and evaluation.

ENGL 2340 Introduction To Drama: 3 semester hours

A close study of major dramatic works in various modes, to introduce the student to the forms and techniques of dramatic literature.

ENGL 2510 World Literature Before 1650: 3 semester hours

Prerequisite: ENGL 1100. A survey of World Literature from the earliest times to 1650. Diverse literary works in a variety genres and voices will be studied. This course excludes literature from the United States and England. To satisfy the cultural diversity requirement of UMSL, the course will include literary works from diverse traditions from throughout the world.

ENGL 2520 World Literature After 1650: 3 semester hours

Prerequisites: ENGL 1100. A survey of World Literature from 1650 to the present. Diverse literary works in a variety genres and voices will be studied. This course excludes literature from the United States and England. To satisfy the cultural diversity requirement of UMSL, the course will include literary works from diverse traditions from throughout the world.

ENGL 2710 American Literature Before 1865: 3 semester hours

Representative selections from American authors from the early seventeenth century to the Civil War.

ENGL 2720 American Literature After 1865: 3 semester hours

Representative selections from American authors from the Civil War to the present.

ENGL 3800 Topics In Women And Literature: 3 semester hours

An examination of the role of women in literature, either as figures in literary works or as writers. Specific topics to vary from semester to semester. Since the topics of ENGL 3800 may change each semester, the course may be repeated for credit if the topics are substantially different.

ENGL 4030 Contemporary Critical Theory: 3 semester hours

This course is to acquaint students with a range of critical methodologies that have gained currency since the 1960's; topics may include formalist, structuralist, post-structuralist, Marxist, reader-response, psychoanalytic, feminist, cognitive, and evolutionary approaches to literature and culture.

ENGL 4050 Forms And Modes Of Poetry: 3 semester hours

Prerequisites: ENGL 3090 prerequisite or corequisite An advanced critical study of formal poetry, from classical and Renaissance models to modern innovations and masterpieces. The course will cover scansion, figurative language, stanza form and convention, modes of occassional poetry, and studies of formal poets (e.g., Yeats, McKay, Bogan, Auden).

ENGL 4060 Adolescent Literature: 3 semester hours

The course will expose students to the large variety of quality adolescent literature available for reading and study in middle and high school classes. It will also examine the relevance of a variety of issues to the reading and teaching of adolescent literature, among them: reader response; theory and practice; multi-culturalism; literacy; the relation of adolescent literature to "classic" literature the role of adolescent literature in interdisciplinary studies; adolescent literature as an incentive to extracurricular reading.

ENGL 4080 Narrative, Cognition, And Emotion: 3 semester hours

Prerequisites: ENGL 2320; ENGL3090, prerequisite or co-requisite Examines narrative theory in the light of recent research into cognitive organization and the structure of the emotions. Traditional and contemporary theories of narrative--or realism, symbolism, point of view, tone, and genre--are developed through recent findings in empirical science. A variety of stories and novels are used as test cases for theoretical propositions.

ENGL 4260 Chaucer: 3 semester hours

The course concentrates on the poetry of Geoffrey Chaucer, including the Canterbury Tales, early poetic works, and the Troilus and Criseyde. All readings are in the original Middle English.

ENGL 4270 Medieval English Literature: 3 semester hours

A survey of old and middle English literature from Beowulf to Malory's Morte d'Arthur, exclusive of Chaucer. All works are read in modern English translations

ENGL 4320 Sixteenth-Century Poetry and Prose: 3 semester hours

A broad selection of writers from the late 15th century through 1603, including Thomas More, the Sidneys, Spenser, and Shakespeare's sonnets.

ENGL 4340 Early Seventeenth Century Poetry And Prose: 3 semester hours

A broad selection of writers from 1603 through 1675, exclusive of Milton, including Bacon, Donne, Jonson, and Lanyer.

ENGL 4350 Milton: 3 semester hours

All the minor poems and the three longer poems with some attention to the major prose, Milton and his relation to the politics, theology and literature of the seventeenth century.

ENGL 4370 Shakespeare: Tragedies And Romances: 3 semester hours

A study of the structure and language of Shakespeare's tragedies and romances, with particular attention to their genre as well as their relation to the cultural issues of Shakespeare's time. Shakespeare's narrative poems may also be included.

ENGL 4380 Shakespeare: Comedies And Histories: 3 semester hours

A study of the structure and language of Shakespeare's comedies and histories, with particular attention to their genre as well as their relation to the culture issues of Shakespeare's time. Shakespeare's sonnets may also be included.

ENGL 4420 Age Of Dryden And Pope: 3 semester hours

The beginnings of English neo-classic literature in the restoration and its development through the first half of the eighteenth century, focusing on Dryden, Swift and Pope.

ENGL 4450 The Eighteenth-Century English Novel: 3 semester hours The origins and early development of the English novel, from DeFoe to Jane Austen.

ENGL 4510 Early Romantic Poetry And Prose: 3 semester hours

A broad selection of British writing during the French Revolution and Napolenoic wars, including William Blake, Robert Burns, Mary Wollstonecraft and Ottabah Cugoano and Romanticism's first generation, Samuel Taylor Coleridge and William Wordsworth.

ENGL 4520 Later Romantic Poetry And Prose: 3 semester hoursThe English romantic movement with special emphasis on later writers,

The English romantic movement with special emphasis on later writers such as Byron, Percy and Mary Shelley, Hemans and Keats.

ENGL 4540 The Nineteenth-Century English Novel: 3 semester hoursNovels of the Romantic and Victorian periods, from Austen to George Eliot.

ENGL 4550 Novels into Films: The Nineteenth Century: 3 semester hours

Prerequisites: Engl 2320, Engl 3090. Novels by Austen, Eliot, Wilde, Hardy, and others read in themselves and as interpreted in film. Comparisons of the representational and aesthetic techniques available to novels and film.

ENGL 4560 Prose And Poetry Of The Victorian Period: 3 semester hours

Critical readings of selections from Tennyson, Browning, Arnold and others, in addition to selections from the major prose writing.

ENGL 4580 Literature Of The Late Nineteenth And Early Twentieth Centuries: 3 semester hours

Literature of the period between 1870 and the First World War, including works by writers such as Hardy, Conrad, James, Wilde, Stevenson, Shaw, Jefferies, and Wells.

ENGL 4610 Selected Major American Writers I: 3 semester hoursAmerican literature of the nineteenth century: Emerson, Thoreau, Hawthorne, Melville, Whitman and others.

ENGL 4620 Selected Major American Writers II: 3 semester hoursAmerican literature of the late nineteenth and early twentieth centuries: Dickinson, James, Twain, Cather, Frost, Dreiser and others.

ENGL 4640 American Fiction To World War I: 3 semester hours Development of the novel and short story in America.

ENGL 4650 Modern American Fiction: 3 semester hours

The novel and short story in America since World War I. There may be some attention to British and continental influences.

ENGL 4740 Poetry Since World War II: 3 semester hours Reading and analysis of contemporary poetry.

ENGL 4750 Modern British Fiction: 3 semester hours

Critical reading and analysis of British fiction of the twentieth century. There may be some attention to American and continental influences.

ENGL 4760 Modern Drama: 3 semester hours

British, American and European drama of the last one hundred years: the well-made play, the problem play, verse drama, new definitions of tragedy, the angry theater, theater of the absurd.

ENGL 4770 Modern Poetry: 3 semester hours

Critical reading and analysis of poetry of the late nineteenth and early twentieth centuries. Yeats, Eliot, Frost, Williams and others.

ENGL 4900 Seminar: 3-4 semester hours

Prerequisite: Consent of instructor. Intensive reading, critical discussion and writing on topics to be announced each semester. Since the topics of ENGL 4900 may change each semester. The course may be repeated for credit if the topics are substantially different. Enrollment limited to twelve students.

ENGL 4920 Major Works Of European Fiction: 3 semester hours

Prerequisites: 2 college courses in literature The development of the European novel in the 19th and 20th centuries. Representative of works of writers such as Balzac, Flaubert, Dostoevsky, Tolstoy, Kafka, and Proust, read in translation.

ENGL 4930 Studies In Gender And Literature: 3 semester hours

Same as GS 4930. The course examines the role of gender in literature, including the transformation of literary genres by women writers, writings by women during a particular historical period, and gender relations in literature. Specific topics vary from semester to semester. The course may be repeated for credit with departmental approval.

ENGL 4931 English Women Writers, 1300-1750: 3 semester hours

Same as GS 4931. Works will be read ranging in scope from closest drama and romance to lyrics to personal, political, and religious writing by women, such as Margery Kempe, Mary Sidney, and Amelia Lanyer, who wrote during a period when reading and writing were not the female norm.

ENGL 4932 Female Gothic: 3 semester hours

Same as GS 4932. The course examines the historical development of the female gothic, a genre which employs narrative strategies for expressing fears and desires associated with female experience. From the late 18th century to the present, we will trace the persistence of the Gothic vision in fiction and film.

ENGL 4934 Austen And The Brontes: 3 semester hours

Same as GS 4934. This course covers the novels of the major 19th century British writers Jane Austen and the three Bronte sisters, Anne, Emily, and Charlotte. The course will be devoted to Austen's romantic comedies and the historical/cultural contexts that inform the novels, as well as the darker romanticism of the Brontes, along with the biographical, cultural, philosophical, and religious contexts of their work.

ENGL 4935 Women Heroes And Romantic Tales: 3 semester hours

Same as GS 4935. Women as epic and romantic heroes in British and transatlantic writing 1790s-1850s: reformers and rulers in novels by Mary Wollstonecraft and Mary Shelley; a runaway slave and an epic poet in works by Mary Prince and Elizabeth Barrett Browning; erotic and political adventures in Robinson, Dacre, hemans; American icons "Pocahontas" and "Evangeline" in Sigourney and Longfellow.

ENGL 4936 Tales Of The Islamic East: 3 semester hours

Same as GS 4936. Adventure, gender, and power in British and postcolonial writing: Lady Montague on Turkey, Gibbon on Islam, Byron and Hemans on harems and heroes, Disraeli on the Jewish Caliph of Bagdad, T.E. Lawrence on Arabia, and el Saadawi and Rushdie on (post)modern gender and the Islamic East.

ENGL 4938 American Women Poets Of The 20Th/21St Centuries: 3 semester hours

Same as GS 4938. Introduction to American women poets since 1900: anarchists, Imagists, harlem formalists, white lyricists, modernists (Ridge, H.D., Dunbar-Nelson, Millary, Stein); mid-century giants (Rukeyser, Brooks) and Confessionals (Sexton, Plath); feminists and multiculturalists (Rich, Lorde, Giovanni, Hogan), poets of witness and the play of language and the mind (Klepfisz, Olds, Mullen, Perillo).

ENGL 4950 Special Topics In Literature: 3 semester hours

Special topics in literature that are not covered in other 4000-level English courses. Since the topics of ENGL 4950 may change each semester, the course may be repeated for credit if the topics are substantially different.

ENGL 4960 Ethnic Literatures: 3 semester hours

Prerequisites: ENGL 3100 or for English Majors, ENGL 2320, ENGL 2720, and ENGL 3090, or permission of instructor. This course will examine the literary work of Ethnic Writing with a special focus on the function of identity in literature. Students will read work arranged either as a collection of various ethnic writers or as subject-specific groups, such as Women Writers of Color, Irish/Irish American Writers, West Indian Writers in the US, South African Writers, etc. Students will come to understand the socio-historic relevance of literaty movements as well as significant events such as the Great Northern Migration, Eugenics, World Wars I an and II, etc. in order to understand how representative American and World Literature has become more culturally diverse and inclusive in the 20th century.

ENGL 5000 Introduction To Graduate Study In English: 3 semester hours

A course designed to prepare students for the professional study of English. The course will both familiarize students with basic bibliographic tools and scholarly methods and introduce them to issues that are of current critical interest to those engaged in the advanced study of literature. These issues include gender, textuality, reader-response, multiculturalism, feminism, psychoanalysis, cultural studies, literary history and the relationship of literature to philosophy, history, and science. Must be taken within the first twelve hours of graduate study.

ENGL 5150 Magical Realism Workshop: 3 semester hours

Prerequisites: Open to students in the MFA Program and other graduate students with consent of instructor. Half of this course will be a study of the classic texts of magical realism and the other half will be a fiction workshop in which the members of the class will write in this imaginative and symbolic genre. Non-MFA students will write a critical study of magical realism.

ENGL 5180 Form And Theory Of Poetry: 3 semester hours

Prerequisites: Open to students in the MFA Program and other graduate students with consent of instructor. This course explores various aspects of traditional and contemporary poetry. The student will gain an understanding of formal poetry-rhyme and meter-as well as of traditional types of poetry, for example, the lyric and the narrative. Throughout the course, an emphasis will be maintained on free verse and a greater understanding of its practice. Students will read selectively in the poetry, theory, and critical approaches of various periods, for example, the romantic and the modern, and within various movements, such as the symbolist or confessional.

ENGL 5250 Studies In Middle English Literature: 3 semester hours Special topics in English literature before 1500.

ENGL 5300 Renaissance Literature: 3 semester hours Special topics in English literature from 1500 to 1660.

ENGL 5400 Eighteenth Century Literature: 3 semester hoursStudies in Augustan poetry and prose, including drama and fiction, with emphasis on background and major figures.

ENGL 5500 Nineteenth Century Literature: 3 semester hoursSpecial topics in English romanticism, in Victorian life and thought, and in the development of the novel and of poetry between 1797 and 1914.

ENGL 5600 American Literature Before 1900: 3 semester hours Selected American writers or topics from the colonial period to 1900.

ENGL 5700 Twentieth-Century American Literature: 3 semester hoursSelected American writers or topics from 1900 to the present.

ENGL 5750 Twentieth-Century British Literature: 3 semester hoursSelected British and Commonwealth writers of the twentieth century.

ENGL 5920 Studies In Fiction: 3 semester hours

Study of a few selected British and American novelists and short story writers.

ENGL 5930 Studies In Drama: 3 semester hours
Study of a few selected British and American dramatists.

ENGL 5940 Seminar In Gender And Literature: 3 semester hoursSame as GS 5940 Gender studies in literature of different periods, types, and genres; satisfies area requirement (1-6) appropriate to its period, national literature, and genre.

ENGL 5950 Seminar In Special Topics: 1-3 semester hoursSpecial topics which are not covered in other graduate-level English courses

ENGL 5970 Independent Reading: 1-3 semester hoursDirected study in areas of English for which courses are not available.

ENGL 6000 Thesis: 1-6 semester hours

PREREQUISITE: 3.5 graduate GPA Thesis research and writing on a selected topic in English studies. May be taken over two semesters, three (3) hours each semester.

Special Offerings:

ENGL 3500 Special Studies: 1-3 semester hours

Prerequisite: A course in area of proposed work and consent of instructor. Individual work, with conferences adjusted to needs of the student. May not be used to meet specific English department distribution and language requirements. May be repeated for a maximum total of four hours credit.

ENGL 4900 Seminar: 3-4 semester hours

Prerequisite: Consent of instructor. Intensive reading, critical discussion and writing on topics to be announced each semester. Since the topics of ENGL 4900 may change each semester. The course may be repeated for credit if the topics are substantially different. Enrollment limited to twelve students.

Gender Studies Program

General Information

The Gender Studies Program has three central missions: to provide a comprehensive undergraduate and graduate gender studies curriculum, to support research on gender and women's issues, and to sponsor events and provide community outreach. Faculty engage in disciplinary and interdisciplinary scholarship to enhance our understanding of the ways in which gender, sex, and sexuality have structured human society and experience across time and cultures. Faculty and students draw upon the rich body of interdisciplinary feminist scholarship to investigate emerging theories and research on women, men, and gender. Our courses encourage a reassessment of female and male roles in society and facilitate career goals that focus on gender issues. Gender Studies classes promote the exchange of knowledge among people of different races, genders, classes, ethnicities, sexualities and cultural conditions. Gender Studies courses enable students to broaden their educational experiences and develop new insights into their own lives and aspirations.

The Gender Studies Major

Undergraduate students may design their own major through the Bachelor's in Interdisciplinary Studies. The Bachelor of Interdisciplinary Studies (BIS) provides a flexible, individualized program of study for the self-directed learner. It is intended for students who have unique educational goals that cannot be met by any other UMSL degree program. Each degree program is developed by the student, with advising by

faculty and a professional Student Services Coordinator. It is open to all students, including those enrolled in the Pierre Laclede Honors College. The BIS degree enables a student to combine courses from at least three different disciplines, taken at the intermediate or advanced level. This allows students to study a subject from multiple academic perspectives (for example, Gender Studies, including History, English, Criminology and Criminal Justice, Sociology, and/or Social Work), or to combine courses for a specific career goal (for example, leadership or non-profit management). Student may also receive credit for professional internships, research internships, or community service, under the supervision of a UMSL faculty member. Some BIS degree programs may be completed entirely with evening courses.

The BIS requires the student to define a personalized Area of Study of at least 36 credit hours, no more than 15 hours of which can be in one department. All courses in the Area of Study must be at the 2000-level or above, and 18 credits must be earned at UM-St. Louis after the student is admitted to the BIS program. Up to six hours may be taken as faculty-supervised professional internship, research internship, or community service, which must be approved by the faculty member in advance. In order to be admitted to the BIS, students must also have a campus grade point average of 2.0 or above. Please contact Dr. Kathleen Nigro, Gender Studies Advisor, at nigrok@umsl.edu for more information.

Gender Studies Minor

For a Minor in Gender Studies, students must take at least 12 hours of Gender Studies courses. 9 hours must include 3 core courses:

- 1. GS 2102 Introduction to Gender Studies
- 2. GS 3033 Sexuality and Gender Theory or other 3000-5000 level course in feminist or gender theory.
- 3. Capstone experience: Students must complete a final research project or practicum. The Capstone requirement may be satisfied by GS 4352 Independent Study in Gender Studies, GS 4353 Internship in Gender Studies, or by a 4000-level Gender Studies course or other 4000-level seminar where student completes a final research and writing project that focuses on gender studies.

The remaining 3 hours may be cross-listed courses with the student's major department or Gender Studies electives from various disciplines.

Undergraduate Certificate Requirements For Admission

Undergraduate certificate candidates must meet the University's general education requirements. Applicants must have a cumulative G.P.A. of at least 2.5 and must maintain a minimum 2.5 G.P.A. in Gender Studies courses. Candidates for undergraduate certificates are asked to register with Gender Studies after taking one or two courses. Students will then be enrolled in the program and will be placed on our mailing list for class information and announcements of upcoming events.

Certificate Requirements

Students must take at least 18 hours in Gender Studies courses. 9 hours must include 3 core courses:

- 1. GS 2102 Introduction to Gender Studies
- GS 3033 Sexuality and Gender Theory or other 3000-5000 level course in feminist or gender theory

3. Capstone Experience: Students must complete a final research project or practicum. The Capstone requirement may be satisfied by GS 4352 Independent Study in Gender Studies, GS 4353 Internship in Gender Studies, or by a 4000-level Gender Studies course or other 4000-level seminar where student completes a final research and writing project that focuses on gender studies.

9 hours may be cross-listed courses with student's major department or Gender Studies electives from various disciplines.

Gender Studies Certificate in Women's Leadership

For the Gender Studies Certificate in Women's Leadership, students must take at least 18 hours of Gender Studies courses. 6 hours must include 2 core components:

- 1. GS 2102 Introduction to Gender Studies
- 2. Capstone Experience: The capstone requirement may be satisfied by GS 4352, Independent Study in Gender Studies, or GS 4353, Internship in Gender Studies (which includes the Sue Shear Institute for Women in Public Life, the Women's University Mentoring Program, the Women's Executive Leadership Institute, or a comparable program approved by the GS director).

The remaining 12 hours may be selected from the following choices; take no more than two courses per curricular designation.

COMM 3337	Male/Female Communication	3
COMM 2232	Effective Communication In The Organization: Tools For Leadership	3
GS 2150	Special Topics In Gender Studies	3
MGMT/SOC 3600	Management And Organizational Behavior	3
MGMT 3611	Advanced Management And Organizational Behavior	3
MGMT 3623/ PSYCH 3318	Industrial And Organizational Psychology	3
MGMT 3625	Leadership in Organization	3
MKTG 3785	Women in International Entrepreneurship ¹	3
PHIL/GS 2253	Philosophy And Feminism	3
POL SCI 2380	The Politics of Gender in the United States	3
POL SCI 3590	Women and Leadership World-Wide: Breaking the Glass Ceiling	3
PSYCH 2230	Psychology Of Gender	3
PSYCH 3316	Fundamentals Of Leadership	3
PSYCH 3318/ MGMT 3623	Industrial And Organizational Psychology	3
SOC/MGMT 3600	Management and Organizational Behavior	3

Prerequisites: MKTG 3700 (Basic Marketing) and MKTG 3780, (International Marketing)

Graduate Certificate

The graduate certificate in Gender Studies is designed for students who wish to receive post-baccalaureate training in gender studies.

Requirements For Admission

- Baccalaureate degree 2.75 G.P.A.
- · Official transcripts of all previous undergraduate/graduate work
- Two letters of recommendation

If you are not currently enrolled at UMSL, you must apply through the Graduate School. This certificate is available to students with Bachelor's or Master's degrees and students enrolled in graduate degree programs. A student need not be enrolled in a degree program to earn the Gender Studies graduate certificate. Post B.A./B.S. students may enroll in the undergraduate or graduate certificate program.

Certificate Requirements

At least 18 hours of Gender Studies courses at the 4000, 5000, and/or 6000 level

- 3 hours must include a graduate feminist or gender theory course, which may be GS 5033, Advanced Sexuality and Gender Theory, GS 5040 Feminist Critical Theory, or other theory course.
- 2. 3 hours must include either a graduate internship or practicum, or final writing project, which may be an independent study GS 6452 Special Readings in Gender Studies, or a substantial research and writing project for a GS graduate seminar, which may be GS 6450 Seminar in Women's and Gender Studies, or other cross-listed, 5000 or 6000-level seminar
- 3. 12 hours must be at the 5000 level or above, while up to 6 hours of 4000-level courses may be taken for graduate credit, as long as student completes graduate level work for the course.
- No more than 6 hours may be taken as Directed or Independent Study credit.

Most Gender Studies courses are cross-listed with other departments and count toward a department's degree requirements we well as toward the certificate.

The Gender Studies Major

Undergraduate students may design their own major through the Bachelor's in Interdisciplinary Studies. The Bachelor of Interdisciplinary Studies (BIS) provides a flexible, individualized program of study for the self-directed learner. It is intended for students who have unique educational goals that cannot be met by any other UMSL degree program. Each degree program is developed by the student, with advising by faculty and a professional Student Services Coordinator. It is open to all students, including those enrolled in the Pierre Laclede Honors College. The BIS degree enables a student to combine courses from at least three different disciplines, taken at the intermediate or advanced level. This allows students to study a subject from multiple academic perspectives (for example, Gender Studies, including History, English, Criminology and Criminal Justice, Sociology, and/or Social Work), or to combine courses for a specific career goal (for example, leadership or non-profit management). Student may also receive credit for professional internships, research internships, or community service, under the supervision of a UMSL faculty member. Some BIS degree programs may be completed entirely with evening courses.

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is admitted to the BIS program. Up to six hours may be taken as faculty-supervised professional internship, research internship, or community service, which must be approved by the faculty member in advance. In order to be admitted to the BIS, students must also have a campus grade point average of 2.0 or above. Please contact Dr. Kathleen Nigro, Gender Studies Advisor, at nigrok@umsl.edu for more information.

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- GS 3033 (https://nextbulletin.umsl.edu/artsandsciences/ genderstudies) Sexuality and Gender Theory or other 3000-5000 level course in feminist or gender theory.
- 3. Capstone experience: Students must complete a final research project or practicum. The Capstone requirement may be satisfied by GS 4352 (https://nextbulletin.umsl.edu/artsandsciences/genderstudies) Independent Study in Gender Studies, GS 4353 (https://nextbulletin.umsl.edu/artsandsciences/genderstudies) Internship in Gender Studies, or by a 4000-level Gender Studies course or other 4000-level seminar where student completes a final research and writing project that focuses on gender studies.

The remaining 3 hours may be cross-listed courses with the student's major department or Gender Studies electives from various disciplines.

Undergraduate Certificate Requirements For Admission

Undergraduate certificate candidates must meet the University's general education requirements. Applicants must have a cumulative G.P.A. of at least 2.5 and must maintain a minimum 2.5 G.P.A. in Gender Studies courses. Candidates for undergraduate certificates are asked to register with Gender Studies after taking one or two courses. Students will then be enrolled in the program and will be placed on our mailing list for class information and announcements of upcoming events.

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Students must take at least 18 hours in Gender Studies courses. 9 hours must include 3 core courses:

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Gender Studies Certificate in Women's Leadership

For the Gender Studies Certificate in Women's Leadership, students must take at least 18 hours of Gender Studies courses. 6 hours must include 2 core components:

- GS 2102 (https://nextbulletin.umsl.edu/artsandsciences/ genderstudies) Introduction to Gender Studies
- 2. Capstone Experience: The capstone requirement may be satisfied by GS 4352 (https://nextbulletin.umsl.edu/artsandsciences/ genderstudies), Independent Study in Gender Studies, or GS 4353 (https://nextbulletin.umsl.edu/artsandsciences/genderstudies), Internship in Gender Studies (which includes the Sue Shear Institute for Women in Public Life, the Women's University Mentoring Program, the Women's Executive Leadership Institute, or a comparable program approved by the GS director).

The remaining 12 hours may be selected from the following choices; take no more than two courses per curricular designation.

COMM 3337 (p. 153)	Male/Female Communication	3
COMM 2232 (p. 153)	Effective Communication In The Organization: Tools For Leadership	3
GS 2150 (p. 153)	Special Topics In Gender Studies	3
MGMT/SOC 3600 (p. 153)	Management And Organizational Behavior	3
MGMT 3611 (p. 153)	Advanced Management And Organizational Behavior	3
MGMT 3623/ PSYCH 3318 (p. 153)	Industrial And Organizational Psychology	3
MGMT 3625 (p. 153)	Leadership in Organization	3
MKTG 3785 (p. 153)	Women in International Entrepreneurship ¹	3
PHIL/GS 2253 (p. 153)	Philosophy And Feminism	3
POL SCI 2380 (p. 153)	The Politics of Gender in the United States	3
POL SCI 3590 (p. 153)	Women and Leadership World-Wide: Breaking the Glass Ceiling	3
PSYCH 2230 (p. 153)	Psychology Of Gender	3
PSYCH 3316/ MGMT 3623 (p. 153)	Fundamentals Of Leadership	3
SOC/MGMT 3600	Management and Organizational Behavior	3

Prerequisites: MKTG 3700 (p. 153) (Basic Marketing) and MKTG 3780 (p. 153) (International Marketing)

Graduate Certificate

The graduate certificate in Gender Studies is designed for students who wish to receive post-baccalaureate training in gender studies.

Requirements For Admission

- · Baccalaureate degree 2.75 G.P.A.
- · Official transcripts of all previous undergraduate/graduate work
- · Two letters of recommendation

If you are not currently enrolled at UMSL, you must apply through the Graduate School. This certificate is available to students with Bachelor's or Master's degrees and students enrolled in graduate degree programs. A student need not be enrolled in a degree program to earn the Gender Studies graduate certificate. Post B.A./B.S. students may enroll in the undergraduate or graduate certificate program.

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At least 18 hours of Gender Studies courses at the 4000, 5000, and/or 6000 level

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- 3 hours must include either a graduate internship or practicum, or final writing project, which may be an independent study GS 6452 (https://nextbulletin.umsl.edu/artsandsciences/genderstudies) Special Readings in Gender Studies, or a substantial research and writing project for a GS graduate seminar, which may be GS 6450 (https://nextbulletin.umsl.edu/artsandsciences/genderstudies) Seminar in Gender Studies, or other cross-listed, 5000 or 6000-level
- 3. 12 hours must be at the 5000 level or above, while up to 6 hours of 4000-level courses may be taken for graduate credit, as long as student completes graduate level work for the course.
- No more than 6 hours may be taken as Directed or Independent Study credit.

Most Gender Studies courses are cross-listed with other departments and count toward a department's degree requirements we well as toward the certificate.

Courses

GS 1004 History Of Women In The United States: 3 semester hoursSame as HIST 1004. A survey of women's history from the colonial era to the present.

GS 2020 History of Women and Social Movements: 3 semester hours
Same as HIST 2020. Prerequisites: Sophomore standing or consent
of the instructor. This course explores the history of women and social
movements in the nineteenth and twentieth century United States. It
considers social and political movements such as abolitionism, women's
suffrage, progressivism, the labor movement, the civil rights movement,
and second wave feminism.

GS 2100 Women in Contemporary Society: 3 semester hours

GS 2102 Introduction To Gender Studies: 3 semester hours

Same as SOC WK 2102, HIST 2102, and SOC 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

GS 2150 Special Topics In Gender Studies: 3 semester hours

An introduction to a particular topic area in women's and gender studies (topics will be announced prior to registration) drawing on the theories and methods of such disciplines as sociology, psychology, political science, history, philosophy, art history, and others to examine particular aspects of gender in social and cultural life. Course may satisfy the distribution requirement for humanities or social sciences depending on the topic.

GS 2224 Marriage And The Family: 3 semester hours

Same as SOC 2224. The study of patterns of close relationships, and how these relationships are influenced by larger social forces. Topics include love, dating, mate selection, cohabitation, alternative lifestyles, working families, parenting, single mothers, families in crisis, domestic violence, and divorce. Universal and variable aspects of family organization, family role systems, and changes in family social structure are considered.

GS 2230 Psychology Of Gender: 3 semester hours

Same as PSYCH 2230. Prerequisites: PSYCH 1003. Evaluation of psychological theories and research regarding physiological, cognitive, and personality gender differences and similiarities, gender related problems in adjustment, and gender specific clinical interventions.

GS 2232 Psychology Of Trauma: 3 semester hours

Same as PSYCH 2232. Prerequisites: PSYCH 1003. This course is designed to review the psychological effects of crime, volence, war, natural disasters, and other traumas. Particular atention is paid to the development of specific psychopathology and other negative consequences of traumatic events. The process of recovery from distress following psychological events is further emphasized. The role of gender and its relationship to victimization and the development of psychopathology and recovery are considered throughout the course.

GS 2253 Philosophy And Feminism: 3 semester hours

Same as PHIL 2253. A critical examination of what various philosophers have said about issues of concern to women. Sample topics include oppression, racism, women's nature, feminity, marriage, motherhood, sexuality, pornography, the ethics of care.

GS 2290 Gender And The Law: 3 semester hours

Same as POL SCI 2290. This course examines the ways in which laws and interpretations of laws affect gender equality in the United States. Emphasizing how traditional roles impact both women and men historically and currently, the course highlights major pieces of legislation and court rulings related to employment, economics, education, sexual harassment, pornography, rape, reproductive rights, and domestic relations. The course stresses the impact of federal and state institutions and non-governmental influences on equality. It also addresses gender representation in the legal profession admits effect on judicial decisions. This course satisfies State requirements in American History and Government.

Same as POL SCI 2380. Prerequisites: POL SCI 1100 or consent of instructor. This course examines the role of gender in political institutions, practices and policy in the United States, past and present. It focuses on various movements for political equality, the relationship between gender and political participation, yets choice, and public opinion, and how

GS 2380 Politics of Gender in the United States: 3 semester hours

gender and political participation, vote choice, and public opinion, and how legislative, executive, and judicial offices are gendered at the national, state, and local levels. (This course satisfies the State requirements in American History and Government).

GS 2410 Work, Families, And Public Policy: 3 semester hours

Same as ECON 2410. Prerequisites: ECON 1000 or ECON 1001. This course compares the economic behavior of women and men in both the labor market and the household. Topics include: the family as an economic (production) unit, gender differences in labor force participation, occupations and earnings; the effectiveness of human capital theory and labor market descrimination in explaining the male-female wage gap; remedies for reducing the wage gap; family structure and economic wellbeing; and alternative policies to alleviate poverty. Students who have completed ECON 3400 may not take 2410 for credit.

GS 3031 History Of Women In The United States: 3 semester hours
Same as HIST 3031. Prerequisites: Junior standing or consent of the
instructor. Development of women's economic, political, and social role in
the United States with special emphasis on the nineteenth and twentieth
centuries; women and work; women and the family; women and reform
movements; women and education; feminist theories and activists; images
of women.

GS 3032 History Of Women In Comparative Cultures: 3 semester hours

Prerequisites: Junior standing or consent of the instructor. An introduction to the historical development of women's status in a variety of cultures and periods within the areas of Africa, Europe, the Far East, Latin America, and the Middle East. The course analyzes women's political, economic, familial, and sexual roles and the economic, demographic, ideological, and political forces which promoted change and continuity in those roles.

GS 3033 Sexuality And Gender Theory: 3 semester hours

Same as HIST 3033. Prerequisites: Junior standing or consent of instructor. Course examines the ways in which contemporary sexuality and gender theory has challenged and changed the study of culture and history. The course introduces students to sexuality and gender theory in late twentieth and early twenty-first century context¬s.

GS 3034 History Of Sexuality: 3 semester hours

Prerequisites: Junior standing or consent of instructor. Same as Hist 3034. This course locates sexuality at the center of history and examines its impact over time on politics, society, culture, and economics. In particular, the course focuses on changing definitions of sexual deviance, the historical evolution of formal and informal regulations of sexual practices and on the manner in which sex has been deployed in broader historical struggles involving gender, race, class, migration and state building.

GS 3224 Families in Global Perspecitive: 3 semester hours

SAME AS SOC 3224. Prerequisites: SOC 1010 or consent of instructor. This course presents research from the fields of demography, sociology, economics, and public policy in order to develop a broader understanding of the causes and consequences of population aging, one of the major demographic changes faced by social institutions worldwide. Attention to the global diversity of human experiences by age, gender, socioeconomic status,.

GS 3250 Sociology Of Victimization: 3 semester hours

Same as SOC 3250). Prerequisite: SOC 1010. This course examines the role of social factors in a wide rang of kinds of victimization--crime, violence, natural disasters, accidents, disease, etc. The topic of social reactions to various kinds of victimization is also covered. Sociological theories of victimization are emphasized.

GS 3350 Special Topics In Gender Studies: 3 semester hoursPrerequisite: GS 2102 or consent of instructor Special topics in women's and Gender Studies. topics vary by semester.

GS 3352 Independent Studies In Gender Studies: 1-3 semester hours
Prerequisites: Junior standing; two courses in Women's and Gender
Studies, including GS 2102; and consent of the instructor and the Institute.
Directed independent work in selected women's and gender studies topics
through readings, research, reports and/or conferences. Course may
satisfy the distribution requirement for the humanities, social sciences, or
math/science depending on topic.

GS 3376 Gender In The Visual Arts: 3 semester hours

Same as ART HS 3376. Prerequisites: Minimum of one 2000-level course in ART HIST and ENGL 3100, or consent of instructor. Selected topics in the role of gender difference in the production and reception of works of visual art and culture. This course will consider examples of historical and contemporary works through gender theories and the analysis of cultural and social factors that contribute to the construction of sexualities and genders.

GS 3590 Women and Leadership World-Wide: Breaking the Glass Ceiling: 3 semester hours

Same as POL SCI 3590. Prerequisites: POL SCI 1500 or consent of instructor. Compares women's day-to-day leadership and participation patterns across a wide variety of political-economic contexts, emphasizing their performance as elective and executive office holders. It examines the experiences of individual female leaders, the effect of country-specific nomination and recruitment strategies, party dynamics, and the larger political opportunity structure hindering or promoting the balanced participation of women and men in national leadership. Understanding how gender (the socially constructed meanings related to biological sex) operates within these specific contexts is a major concern.

GS 3700 Diversity And Social Justice: 3 semester hours

Same as SOC WK 3700. Prerequisites: PSYCH 2160 or SOC 2160; and SOC WK 3100 taken prior or concurrently. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

GS 4100 Introduction to Feminist and Gender Theory: 3 semester hours

Same as SOC 4100. Prerequisites: GS 2102. This class serves as an initial intellectual investigation into gendered ideologies (such as the effects of race, ethnicity, nationality, socioeconomic class, sexuality, and religion) and functions as a bridge to later advanced gender theory and methods courses. Topics include interdisciplinary feminist theories (with a focus on gender equality), including masculinity theory, queer theory, muted group theory, and other evolving frameworks.

GS 4150 Feminist Theory and Social Research: 3 semester hours

Same as SOC 4150. Prerequisites: GS 2102 and Junior Standing or consent of instructor. This course provides an in-depth examination of feminist theoretical contributions to social science research. We begin by examining the 20th century roots of contemporary feminist theories. With this foundation in place, we then shift to an investigation of how feminist theory has informed sociological research by examining current feminist understandings of gender, race, and sexual inequalities across a range of contemporary social problems. Fulfills WGS feminist theory requirement.

GS 4300 The Female Gaze: Women And The Media: 3 semester hours Prerequisites: Junior Standing or consent of instructor This course challenges how women's issues and performances of feminity are represented in global media, particularly popular Western media which perpetuate cultural stereotypes of gender norms. Specific topics will vary.

GS 4325 Gender, Crime And Justice: 3 semester hours

Same as CRIMIN 4325 and SOC 4325. Prerequisites: CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, ENGL 3100 or consent of instructor. Analysis of the role of gender in crime and in the justice system. Emphasis on gender differences in crime commission, criminal processing, and the employment of women in criminal justice agencies. Fulfills criminology diversity requirement.

GS 4330 Violence Against Women: 3 semester hours

Same as CRIMIN 4330. Prerequisites: Junior Standing, CRIMIN 1110, CRIMIN 1120, CRIMIN 2130, CRIMIN 2210, CRIMIN 2220, and ENGL 3100, or consent of instructor. This course examines the nature, extent, causes and consequences of various types of violence against women, including rape, sexual assault, stalking, and intimate partner violence. Criminal justice policy and practice regarding violence against women are also examined.

GS 4350 Special Topics In Gender Studies: 3 semester hours

Prerequisites: GS 2102 or consent of instructor. Special topies examined from a gender perspective in the fields of anthropology, art history, criminology, economics, English, foreign language, history, philosophy, political science, psychology, social work, sociology, business, or others. Topics and departments vary by semester. Course may be repeated by permission of Director of the Center.

GS 4352 Independent Study In Gender Studies: 1-3 semester hoursPrerequisites: GS 2102 or consent of instructor. Independent, directed readings and research in a women's gender related topic, to be determined in consultation with instructor.

GS 4353 Internship In Gender Studies: 3 semester hours

GS 4360 Sociology Of Minority Groups: 3 semester hours

Same as SOC 4360. Prerequisites: SOC 1010 and junior standing or consent of instructor. The study of dominant-subordinate group relations. Religion, ethnicity, race, and gender as factors in the unequal distribution of power.

GS 4452 Feminism And Science: 3 semester hours

Same as GS 4452. Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. This course will explore major themes and issues in feminist science scholarship, a body of research that focuses on the relationship between science and gender. Feminist research in the philosophy and history of science, and in the bilogical sciences, are emphasized. Issues include: the nature of objectivity, evidence, and truth; the factors that contribute to the acceptance or rejection of research hypothesis and theories; the nature and consequences of science's cognitive authority; and the relationship between science and values.

GS 4600 Masculinities: 3 semester hours

Same as SOC 4600. Prerequisites: GS 2102 or consent of instructor. This course examines men and masculinities through a critical lens, looking carefully at an institutionalized system of gender relations and practices that is assumed to be a natural phenomenon that is culturally universal. The course explores various masculine behaviors, myths, ideologies, and experiences so that students can consider the relationship between masculine practice and social power and delineate choices for future directions. The course is necessarily interdisciplinary and may utilize tools and methods from the social sciences and the humanities. Satisfies GS gender theory requirement.

GS 4610 Domestic Violence: Theory, Problems, And Practice: 3 semester hours

Same as SOC WK 4610. Prerequisites: SOC WK 3150. Focuses on theoretical and empirical understanding of domestic violence in US society and social work practice with battered women and their families. Addresses direct services, community organizing, and public policy changes to help end violence against women. Relationships between violence against women and other forms of oppression (e.g., racism, economic exploitation, heterosexism and social class) are explored.

GS 4630 Gender and Social Issues: 3 semester hours

Same as SOC WK 4630. Prerequisites: SOC WK 3700, GS 2102 or graduate standing. This course will help students become more sensitive to social and welfare concerns based on gender. Topics may include work, education, family responsibilities, violence against women, and special health and mental health service needs. Emphasis will be placed on understanding how social action can be used to bring about positive change.

GS 4920 Women Writing Nature: 3 semester hours

Prerequisites: GS 2102, or consent of instructor. We will read and analyze nature writing by 19th and 20th-century women in America, as well as critical studies from various cultural perspectives and academic disciplines. The course will examine how women's observations about nature create, support, and/or dispute particular cultural and social attitudes toward the environment. Students will consider debates in feminist pedagogy, ecofeminism, and social constructivism about the relationship of gender to nature.

GS 4925 Feminism and Witchcraft: 3 semester hours

Prerequisites: GS 2102, or consent of instructor. This class will examine literary and historical treatments of witchcraft through a cross-cultural, feminist theoretical framework. Students will read primary historical documents as well as fictional, dramatic, and poetic representations of witches and witchcraft. The course will consider changing perspectives toward witches in contemporary gender theory, spiritualist discourse and popular media.

GS 4930 Studies In Gender And Literature: 3 semester hours

Same as ENGL 4930. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. The course examines the role of gender in literature, including the transformation of literary genres by women writers, writings by women during a particular historical period, and gender relations in literature. Specific topics vary from semester to semester. The course may be repeated for credit with departmental approval.

GS 4931 English Women Writers, 1300-1750: 3 semester hours

Same as ENGL 4931. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. Works will be read ranging in scope from closet drama and romance to lyrics to personal, political, and religious writing by women, such as Margery Kempe, Mary Sidney, and Amelia Lanyer who wrote during a period when reading and writing were not the female norm.

GS 4932 Female Gothic: 3 semester hours

Same as ENGL 4932. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. The course examines the historical development of the female gothic, a genre which employs narrative strategies for expressing fears and desires associated with female experience. From the late 18th century to the present, we will trace the persistence of the Gothic vision in fiction and film

GS 4933 Female Novel Of Development: 3 semester hours

Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. Same as ENGL 4933. The course covers the development of the female Bildungsroman from the late 18th century to the present. We will consider how temporary and current theories of female development help us read these novels within their particular cultural contexts.

GS 4934 Austen And The Brontes: 3 semester hours

Same as ENGL 4934. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. This course covers the novels of the major 19th century British writers Jane Austen and the three Bronte sisters, Anne, Emily, and Charlotte. The course will be devoted to Austen's romantic comedies and the historical/cultural contexts that inform the novels, as well as the darker romanticism of the Brontes, along with the biographical, cultural, philosophical, and religious contexts of their work.

GS 4935 Women Heroes And Romantic Tales: 3 semester hours

Same as ENGL 4935. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. Women as epic and romantic heroes in British and transatlantic writing 1790s-1850s: reformers and rulers in novels by Mary Wollstonecraft and Mary Shelley; a runaway slave and an epic poet in works by Mary Prince and Elizabeth Barrett Browning; erotic and political adventures in Robinson, Dacre, hemans; American icons "Pocahontas" and "Evangeline" in Sigourney and Longfellow.

GS 4936 Tales Of The Islamic East: 3 semester hours

Same as ENGL 4936. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. Adventure, gender, and power in British and post-colonial writing: Lady Montague on Turkey, Gibbon on Islam, Byron and Hemans on harems and heroes, Disraeli on the Jewish Caliph of Bagdad, T.E. Lawrence on Arabia, and el Saadawi and Rushdie on (post)modern gender and the Islamic East.

GS 4938 American Women Poets Of The 20Th/21St Centuries: 3 semester hours

Same as ENGL 4938. Prerequisites: Students must satisfy English prerequisites for 4000-level courses or obtain permission of instructor. Introduction to American women poets since 1900: anarchists, Imagists, harlem formalists, white lyricists, modernists (Ridge, H.D., Dunbar-Nelson, Millary, Stein); mid-century giants (Rukeyser, Brooks) and Confessionals (Sexton, Plath); feminists and multiculturalists (Rich, Lorde, Giovanni, Hogan), poets of witness and the play of language and the mind (Klepfisz, Olds, Mullen, Perillo).

GS 5031 Advanced History Of Women In The United States: 3 semester hours

Prerequisites: Graduate standing. Development of women's economic, political, and social roles in the United States with special emphasis on the nineteenth and twentieth centuries: women and work; women and the family; women and reform movements; women and education; feminist theorists and activists; images of women.

GS 5032 Advanced History Of Women In Comparative Cultures: 3 semester hours

Prerequisites: Graduate standing. An introduction to the historical development of women's status in a variety of cultures and periods within the areas of Africa, Europe, the Far East, Latin America, and the Middle East. The course analyzes women's political, economic, familial, and sexual roles and the economic, demographic, ideological, and political forces which promoted change and continuity in these roles.

GS 5033 Sexuality And Gender Theory: 3 semester hours

Prerequisite: Graduate standing. Course examines the ways in which contemporary sexuality and gender theory have challenged and changed the study of culture and history. The course introduces students to sexuality and gender theory in late twentieth and early twenty-first century context¬s.

GS 5040 Feminist Critical Theory: 3 semester hours

Prerequisites: Graduate Standing and consent of instructor. Same as ENGL 5040. A consideration of feminist critical theory as a means of reassessing literary texts and our cultural heritage. After exploring the roots of feminist criticism, the seminar will examine Anglo-American and continental debates on theories of language, writing and representation. In providing an interdisciplinary context the course will consider studies in psychology, anthropology, history, and philosophy/theology which have influenced and enriched feminist approaches to literature.

GS 5053 Advanced Studies In African-American History: 3 semester hours

Prerequisites: Graduate Standing. Course introduces some of the themes of African-American women's history. By examining the impact of region, gender, and class on African-American women's experiences across time, the course highlights black women's applied and theoretical contributions to feminist politics and activism as well as the black struggle for freedom and equality. Topics covered include: slavery and emancipation, institution and community building, the family and work, electoral politics and direct action protest, civil rights, and contemporary issues.

GS 5350 Topics In Women's And Gender Studies: 3 semester hours Prerequisites: Graduate standing and at least one Women's and Gender Studies course. This course will focus on a particular aspect of gender (to be announced prior to registration) and will draw upon recent theoretical and methodological work from a variety of disciplines.

GS 5450 Special Topics In Gender Studies: 3 semester hours Prerequisites: Graduate standing or consent of instructor. Special topics at the Graduate level examined from a gender perspective in the field of anthropology, art history, criminology, economics, English, foreign language, history philosophy, political science, psychology, social work, sociology, business, or others. Topics and departments vary by semester.

GS 5500 Foundations Of Human Behavior In The Social Environment: 3 semester hours

Same as SOC WK 5500. Prerequisites: SOC WK 3150 or equivalent or admission to the MSW program. Focuses on theoretical and empirical understanding of human behavior in the social environment using a life-span perspective Introduces biological, behavioral, cognitive, and sociocultural theories of individuals, families, and small groups, and their implications for the professional social worker's understanding of socioeconomic status, gender, disability, ethnicity, race, and sexual orientation.

GS 5635 Social Work Practice With Gay, Lesbian, Bisexual and Transgender Populations: 3 semester hours

Same as SOC WK 5635. Prerequisites: SOC WK 5100 and SOC WK 5500. This advanced practice course focuses on developing the theoretical and empirical knowledge and practice skills necessary for effective social work practice with lesbian, gay male, bisexual, and transgender (LGBT) persons and their families. This course aims to explore deeper understanding of LGBT identities, families, health and mental health challenges, and issues of political advocacy.

GS 5700 Diversity, Social Justice And Social Practice: 3 semester hours

Same as SOC WK 5700. Prerequisites: Graduate Standing. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

GS 5940 Seminar In Gender And Literature: 3 semester hoursSame as ENGL 5940. Gender studies in literature of different periods, types, and genres; satisfies area requirement (1-6) appropriate to its period, national literature, and genre.

GS 6350 Gender, Language and Identity: 3 semester hours

Same as TCH ED 6350. Prerequisites: Graduate Standing. An interdisciplinary look at the ways gendered and racial identities get developed and shaped through language and culture. Readings will address the complex, yet sometimes invisible, ways that identity, language and gender intersect, creating and assigning roles, responsibilities, and possible selves to individuals and groups in a global world.

GS 6353 Graduate Internship In Gender Studies: 1-6 semester hours
Prerequisites: Graduate standing and consent of director. Provides an
opportunity for the Graduate Women's and Gender Studies student to
acquire "real world" experience working in a non-profit, political, economic,
or social service organization with a gender focus.

GS 6410 Women and Mental Health: 3 semester hours

Same as PSYCH 7410. Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of the instructor. This course will focus on contemporary research on the psychology of women pertaining to mental health issues. Etiology and treatment of disorders disproportionately affecting women will be emphasized.

GS 6435 Gender, Crime And Criminal Justice: 3 semester hoursSame as CRIMIN 6435. Prerequisite: Graduate Standing. Course provides an analysis of theories of crime, crime processing and gender. Topics examined include the role of gender in criminal offending and victimization. The impact of gender on criminal/juvenile justice system processing and treatment will be addressed.

GS 6446 Sex Crime: 3 semester hours

Same as CRIMIN 6446. Prerequisites: Graduate Standing and consent of instructor. Examination of consensual and non-consensual sexual offending. Topics include historical development of laws regulating sexual conduct, controversies surrounding the application of these laws, and the nature and distribution of sexual offenses.

GS 6450 Seminar In Gender Studies: 3 semester hours GS 6452 Special Readings In Gender Studies: 3 semester hours

History

General Information

Degrees and Areas of Concentration

The department offers work in Asian, African, African American, European, Latin American, Mexican, World, and United States history from ancient to modern times. At the bachelor's level, the department offers the B.A. in history, and, in cooperation with the College of Education, the B.A. in history with teacher certification and the B.S. in education with an emphasis in social studies.

At the graduate level, the department offers an M.A. in history with work in U.S and World history. The department also offers the option of an M.A. in history with a concentration in Museum Studies and Community History along with a certificate in History Education.

Undergraduate Studies General Education Requirements

History majors must meet the university and college general education requirements (p. 28). History courses that will satisfy the university's state requirement are:

HIST 1001	American Civilization To 1865	3
HIST 1002	American Civilization 1865 To Present	3
HIST 1003	African-American History	3
HIST 1004	The History Of Women In The United States	3
HIST 2001	Creating Early America: European Empires, Colonial Cultures, and Native Nations, 1565-1776	3
HIST 2003	United States History: From Nation to Civil War	3
HIST 2004	United States History: The Civil War Era, 1860-1900	3
HIST 2005	The Modernization Of The United States	3
HIST 2006	Recent United States History	3
HIST 2007	History Of Missouri	3
HIST 2010	From Sea to Shining Sea: The American Frontier 1763 - 1890	3
HIST 2020	History of Women and Social Movements	3
HIST 2023	US Foreign Relations and Military History To 1900	3
HIST 2024	US Foreign Relations and Military History Since 1900	3
HIST 2800	History Of American Economic Development	3

Students may take any language that fulfills the college's foreign language requirement.

Majors may not take required history courses on a satisfactory/ unsatisfactory basis. Students enrolled in variable credit reading courses for 5 credit hours must complete a seminar paper.

Degree Requirements Bachelor of Arts in History

Select one of the following in U.S. History:

Students are encouraged to move from introductory courses at the 1000 to more advanced content-oriented courses at the 2000 level then to skill oriented courses at the 3000 and 4000 levels.

1000 Level

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HIST 1001 (p. 161)	American Civilization To 1865	
HIST 1002 (p. 161)	American Civilization 1865 To Present	
HIST 1003 (p. 161)	African-American History	
HIST 1004 (p. 161)	The History Of Women In The United States	
Select one of the t	following in European History:	3
HIST 1030 (p. 161)	The Ancient Empires of the Mediterranean	
HIST 1031 (p. 161)	Topics European Civilization: Emergence Of Western Europe To 1715	
HIST 1032 (p. 161)	Topics In European Civilization: 1715 To The Present	
Select one of the the History:	following in African, Asian, Latin American, or World	3
HIST 1041 (p. 161)	East Asian Civilization	
HIST 1042 (p. 161)	East Asian Civilization	
HIST 1051 (p. 161)	Latin American Civilization	
HIST 1052 (p. 161)	Mexican Civilization	
HIST 1061 (p. 161)	African Civilization: From The Beginning of Humanity to The End of The Slave Trade	
HIST 1062 (p. 161)	African Civilization II: From Colonies to Nations	
HIST 1075 (p. 161)	World History to 1500	
HIST 1076 (p. 161)	World History Since 1500	
Select two additional including INTDSC	nal courses at the 1000 level on any subject 1999 (p. 161).	6
2000 and 3000 Le	evel ¹	
Select between or	ne and three courses at the 2000 and 3000 level. ²	3-9
HIST 2999 (p. 161)	Introduction to Historical Inquiry	4
4000 Level ³		
Select between tw	o and four sections of the following:	6-12
HIST 4142 (p. 161)	Inquiries in U.S. History	

HIST 4143 (p. Inquiries in World History 161)

HIST 4999 (p. Senior Seminar 4 161)

Total Hours

- 2000 and 3000 level courses offer in-depth historical content.
- At least one of the courses at this level must be in the fields of African. Asian, or Latin American History
- 4000 level courses are designed primarily for majors and focus on developing historical writing and thinking skills.
- In this course, history majors demonstrate mastery over historical thinking, writing, and research skills. This course should be taken once students have completed all other requirements for the major.

Majors must complete at least 39, but not more than 45, hours in history with no grade below C. Courses SEC ED 4011 (p. 161) and SEC ED 4012 (p. 161) do not count toward the major. After fulfilling the general education and specific major degree requirements, students take the remaining 30 hours required to complete the B.A. or B.S. degrees from courses, from one or more of the following or their-quality equivalents at other institutions, if the appropriate department has evaluated them as being of university-level quality: anthropology/archaeology, art (appreciation, history, studio), biology, chemistry, communication, criminology and criminal justice, economics, English, foreign languages/ literatures, history, mathematics/computer science, music (appreciation, history, performance), philosophy, physics and astronomy/geology, political science, psychology, social work, sociology, business, education, engineering, and interdisciplinary.

Undergraduate majors must complete a residency minimum of 15 hours of 2000/3000/4000 level History courses including HIST 4999 (p. 161) (5 credit hours) at UMSL.

Departmental Honors

Students majoring in history may be awarded departmental honors upon graduation if they have achieved the following: a) at least a 3.2 overall GPA; b) at least a 3.5 GPA for all hours attempted in history courses; and c) an outstanding research paper in the Senior Seminar as certified by the faculty member responsible for directing it.

Learning Outcomes.

The following learning outcomes are anticipated in the successful completion of a Bachelor of Arts in History

- Communication: Write clearly and coherently and listen to oral presentations, summarize the arguments made and discuss them in the context of other oral presentations or conversations.
- · Valuing/Ethics/Integrity: Understand and articulate the diversity of identities and political and social systems that have shaped human behavior over time. Understand and articulate one's own identity in terms of race, gender and class, and to locate that identity in the wider world, both past and present.
- · Critical Thinking: Listen to oral presentations, summarize the arguments made and discuss them in the context of other oral presentations or conversations. Accurately summarize an argument and discuss it in the context of other arguments.
- Content Knowledge: Embedded in Other Outcomes

Minor in History

33-45

Students may minor in history by taking 19 hours of history courses as follows:

- 1. One course numbered 1001-1099 in each of the following areas: United States history, European history, and either Asian, African, Latin American or World history (9 credits)
- 2. Three courses numbered 2000-3999, including History 2999 (10 credits)

No course in which a grade below a C is received shall count toward a

The Minor in History of Science and **Technology**

The Minor in History of Science and Technology (HST) is an interdisciplinary program requiring a minimum of 18 credits in HST.

All required courses must be completed with a "C" or higher. The satisfactory/unsatisfactory option may not be used. No transfer courses may be used towards the HST Minor. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division may satisfy requirements for the student's major, consistently with the major's requirements.

Requirements

Logic or Methodology

Select one of the following in either logic or methodology: 3 ANTHRO 4308 Practicum In Cultural Research Methods (p. 161) ANTHRO 4310 Laboratory Methods In Archaeology (p. 161) HIST 2999 (p. Introduction to Historical Inquiry 161) PHIL 3360 (p. Formal Logic 161) PHIL 4460 (p. Advanced Formal Logic 161) PSYCH 2219 Research Methods (p. 161) SOC 3230 (p. Research Methods

161) History

Select two of the following in history of science and technology:

6 ECON 3800 History Of Economic Thought (p. 161) HIST 2089 (p. Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West 161) HIST 2770 (p. Introduction To Transportation 161) HIST 2772 (p. History Of Aviation In American Life

HIST 2773 (p. Urbanization And Transportation

HIST 4143 (p. Inquiries in World History

161)

	PHIL 4483 (p. 161)	Topics In History And Philosophy Of Science
	PSYCH 3400 (p. 161)	Conceptual and Historical Foundations of Psychology
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Science

Select 9 credit hours in the mathematical, physical, life, behavioral, or 9 social sciences ²

Total Hours 18

- Note: HIST 4143 (p. 161) is offered under different topics; only the specific topic listed here counts as HPST.
- The science courses must be in addition to those satisfying the Gen Ed requirements and conditional upon their acceptance by the HST undergraduate advisor.

Prerequisites:

Some courses required by the Minor in History have prerequisites. (It should be particularly noted that all 3000 level History courses require HIST 2999.) Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

Alternative courses to satisfy the History requirements:

Some courses may satisfy the History requirement even though they are not listed as such, depending on what their content is. These include variable content courses, courses at the Honors College, and history of philosophy courses. If a course that deals with some aspect of History and should satisfy a requirement is not listed among those satisfying the requirements, you may do the following:

- 1. Obtain the description of what the course will cover.
- Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of History.
- 3. Submit both to the History undergraduate advisor for approval.

Bachelor of Liberal Studies Option:

A minor in history may be combined with a minor in the Philosophy of Science and Technology and a capstone to form a Bachelor of Liberal Studies. The relevant capstones are either HIST 4999 or PHIL 4491. Since students taking HIST 4999 must have taken HIST 2999, it is suggest such students use to satisfy the Logic and Methodology requirement. Students can use the same course to satisfy the Logic and Methodology requirement of both minors, but cannot use the same science courses. Also, a Bachelor of Liberal Studies program is easily combined, in turn, with a major in any science as a double major. This provides the student with a deeper historical and conceptual understanding of the science(s) he or she is studying.

Related Areas

Since history is a broad discipline, it can be combined with serious work in any other discipline. Courses in the humanities, social sciences, languages, and the natural sciences may complement the history program. Students should consult with faculty advisers to select courses suited to their individual interests.

Bachelor of Arts in History with Teacher Certification

Students majoring in History may earn Social Studies Teacher Certification as follows:

Social Studies

Teacher certification students must complete the major and meet these minimum social science requirements:

American History, includi	ing:	12
SEC ED 4013 United (p. 161) Classi	d States History For The Secondary room	
European or World Histo	ry, including:	9
HIST 4014 (p. World 161)	History For The Secondary Classroom	
United States and/or Sta	te Government, including:	6
POL SCI/SEC Ameri ED 4090 (p. Classi 161)	can Government For The Secondary room	
Behavioral Science		6
Economics		3
Geography		3
Social Studies Elective		2
Total Hours		41

Social science methods course is SEC ED 4011 (p. 161).

For emphasis area advising, you must see a History/Social Studies advisor. You must also see an advisor in the College of Education regarding Education requirements.

For more information, refer to the Secondary Education in this Bulletin.

Bachelor of Science in Education: Emphasis in Social Studies

The history requirements are the same as for the B.A. degree except students fulfill the College of Education general education requirements rather than those of the College of Arts and Sciences. For information, refer to the College of Education section in this Bulletin.

Graduate Studies

The department offers the MA in History and a Graduate Certificate in Museum Studies. Qualified students may enter the MA through two different routes, either as graduates with a baccalaureate degree or as exceptional undergraduates via the 2 + 3 program.

The M.A. Degree

The Department of History offers two options for graduate study, the Master of Arts in History and the Master of Arts in History with Concentration in Museum Studies. These options are described below.

Master of Arts in History

The Department of History offers students two ways of completing the Master of Arts degree: one path of study emphasizes depth of knowledge and research competence acquired through writing a substantial master's thesis; the second emphasizes breadth of historical knowledge acquired

through graduate course work and the writing of research papers. Both paths include a core of substantive courses in history (see Core) to which the student adds either a thesis (see Thesis) or additional research papers and seminars (see Research Papers).

The M.A. program offers all students intermediate training preparatory to doctoral programs, advanced training leading to teaching and other careers, and disciplined advanced work.

The History M.A. program offers study in U.S. History, World History, History Education, Public History and Cultural Heritage, and Museum Studies. Students should consult with the Director of Graduate Studies to be sure that they have properly selected their fields of study.

Admission Requirements

October 15th for the Spring semester.

Applicants must meet several departmental admission requirements in addition to the general criteria of the Graduate School. The applicant's undergraduate studies need not have been in history, but they must demonstrate high academic potential. Normally, only students with a 3.2 grade point average (3.35 for the online degree) in their undergraduate major are admitted; most successful applicants have higher grades.

Applicants must submit three letters of recommendation, preferably from former teachers, and a sample of their written work. The History Department bases its admission decisions upon the undergraduate transcript, the letters of recommendation, and the sample of written work. The deadlines for applications are March 15th for the Fall semester and

Core

All candidates for the M.A. degree in history must complete a core of 26 hours of course work (excluding thesis credit), with no more than nine hours of history and related fields at the 5000 level. This 26-hour core must include seven courses at 3 credit hours each (21 hours in all), and one 5-credit-hour writing seminar consisting of a 2-credit-hour research paper supplement to a 3-credit-hour, 6000-level history readings course.

To earn the 26-hour core, candidates must complete HIST 6000 (p. 161) and select at least one field of study with a minimum of three courses (each at 3 credit hours or more.) Students may use the remaining hours to complete a second field.

In addition to this core, each candidate must select one of the two following degree options:

1. Thesis Option--32 hours total

In addition to the core, the candidate choosing this option must enroll for 6 hours of thesis credit and submit an acceptable thesis. The thesis is based on original research in primary sources. Normally, theses do not exceed 100 pages of text. Candidates receive a grade for the thesis upon its approval by an advisory committee. The committee consists of professors selected by the candidate after consultation with the major professor. One member of the committee must be from the department but outside the candidate's general area of study, and one may be outside the history department.

The advisory committee conducts an oral examination on the thesis during the candidate's last semester of residence.

The committee decides whether the candidate shall pass, fail, or fail with the option to repeat the oral examination at a later date. Students may not take the oral examination more than twice. The

second examination must be held no less than one and no more than two semesters following the date of the first examination. Summer session may be counted as a semester under this procedure, but students should be aware of the difficulties involved in assembling faculty committees during the summer.

Thesis candidates must demonstrate competence in one foreign language or in quantitative methods as applied to historical study. Candidates shall demonstrate foreign language competence by translating, with the use of a dictionary, 500 words in one hour. A member of the history faculty will conduct this examination and choose the test for translation. Candidates shall demonstrate quantitative methods competence by satisfactory completion of either PSYCH 2201 (p. 161) Psychological Statistics or SOC 3220 (p. 161) Sociological Statistics, or their equivalent.

2. Research Paper Option-36 hours total

To complete this option, the candidate must complete two 5-credithour seminars (each consisting of a 6000-level reading seminar plus 2 credit hours of supplementary work on a substantial research paper), in addition to the core. The candidate may choose a fourth field in addition to the three already represented in the core to complete this option.

The 2+3 B.A. and M.A. in History

The 2+3 B.A./B.S. – Ed and M.A. in History enables students of demonstrated academic ability and educational maturity to complete the requirements for both degrees in five years of full-time study. Because of its accelerated nature, the program requires the completion of lower-division requirements (15 hours) before entry into the three-year portion of the program. It also has prerequisites numbered 5000-5999 for graduate readings courses numbered 6000-6999. When all the requirements of the B.A/B.S. – Ed. and M.A. program have been completed, students will be awarded both the baccalaureate and master's degrees. A carefully designed program can permit a student to earn both degrees within as few as ten semesters.

The combined program requires a minimum of 137 hours, at least 5 of which must be at the senior level (HIST 4999 (p. 161)) and at least 32 of which must be at the graduate level (courses numbered in the 5000 and 6000 range). In qualifying for the B.A. or B.S. – Ed., students must meet all university and college requirements, including the requirements of the undergraduate major. In qualifying for the M.A., students must meet all university and Graduate School requirements, including satisfactory completion of at least 32 credit hours at the graduate level.

The semester they will complete 62 undergraduate credit hours, (including 15 credit hours of appropriate 1000-level coursework in the History Department and ART ED 5588 (p. 161)) interested students should apply to the Graduate Director of the Department of History for admission to the 2+3 combined degree program in History. A cumulative grade point average of 3.4 or higher in history courses, a writing sample, and three letters of recommendation from faculty are required for consideration. Students will be admitted to the 2+3 program under provisional status until they have completed 105 total credit hours toward their BA degree with a grade point average of 3.0 or higher. After completion of the provisional period, and with the recommendation of the graduate director, and approval of the graduate dean, students can be granted full admission into the program. Students will not be admitted to the program, if they have accumulated more than 105 credits. Students in the 2+3 program begin to pay graduate credit hour fees once they exceed the 105 credit hour threshold. Students must maintain a grade point average of 3.0 or higher

throughout the combined program. Students who officially withdraw from the 2+3 combined degree program will be awarded the B.A. or B.S. – Ed. Degree when they have successfully completed all the requirements for the degree.

Undergraduate History Requirements For Students in the 2+3 Program

The following requirements must be completed prior to enrolling in the 2+3 Program:

1000 Level

Select one of the	following in U.S. History:	3
HIST 1001 (p. American Civilization To 1865 161)		
HIST 1002 (p. 161)	American Civilization 1865 To Present	
HIST 1003 (p. 161)	African-American History	
HIST 1004 (p. 161)	The History Of Women In The United States	
Select one of the	following in European History:	3
HIST 1030 (p. 161)	The Ancient Empires of the Mediterranean	
HIST 1031 (p. 161)	Topics European Civilization: Emergence Of Western Europe To 1715	
HIST 1032 (p. 161)	Topics In European Civilization: 1715 To The Present	
Select one of the History:	following in African, Asian, Latin American, or World	3
HIST 1041 (p. 161)	East Asian Civilization	
HIST 1042 (p. 161)	East Asian Civilization	
HIST 1051 (p. 161)	Latin American Civilization	
HIST 1052 (p. 161)	Mexican Civilization	
HIST 1061 (p. 161)	African Civilization: From The Beginning of Humanity to The End of The Slave Trade	
HIST 1062 (p. 161)	African Civilization II: From Colonies to Nations	
HIST 1175 (p. 161)	Arts And Ideas	
HIST 1776 (p. 161)	History of American Leadership	
Select two additio	nal courses at the 1000 level on any subject.	6
2000 Level		
HIST 2999 (p.	Introduction to Historical Inquiry (must receive a	4

Once admitted to the program students must take the following courses:

Additional Undergraduate History Requirements For Students in the 2+3 Program

HIST 4999 (p. 161), Senior Seminar (5)

Total Hours

NOTE: B.S.-Ed. students must also take SEC ED 4012 (p. 161), SEC ED 4013 (p. 161) and HIST 4014 (p. 161).

Graduate History Requirements For Students in the 2+3 Program

- Three courses at the 5000-level for 9 credit hours.
- Five courses at the 6000-level for 17 credits beginning with HIST 6000 (p. 161) (students must take two of their three 5000-level courses prior to enrolling in HIST 6000 (p. 161)), followed by at least three courses in a major field of study and one 5-credit course.
- In addition to this core, each candidate must select one of the two following degree options:
 - a. Thesis Option -32 hours total

In addition to the fulfilling the requirements listed above, the candidate choosing this option must enroll for 6 hours of thesis credit and submit an acceptable thesis. The thesis is based on original research in primary sources. Normally, theses do not exceed 100 pages of text. Candidates receive a grade for the thesis upon its approval by an advisory committee. The committee consists of professors selected by the candidate after consultation with the major professor. One member of the committee must be from the department but outside the candidate's general area of study, and one may be outside the history department.

The advisory committee conducts an oral examination on the thesis during the candidate's last semester of residence.

The committee decides whether the candidate shall pass, fail or fail with the option to repeat the oral examination at a later date. Students may not take the oral examination more than twice. The second examination must be held no less than one and no more than two semesters following the date of the first examination. Summer session may be counted as a semester under this procedure, but students should be aware of the difficulties involved in assembling faculty committees during the summer.

Thesis candidates must demonstrate competence in one foreign language or in quantitative methods as applied to historical study. Candidates shall demonstrate foreign language competence by translating, with the use of a dictionary, 500 words in one hour. A member of the history faculty will conduct this examination and choose the test for translation. Candidates shall demonstrate quantitative methods competence by satisfactory completion of either PSYCH 2201 (p. 161), Psychological Statistics or SOC 3220 (p. 161), Sociological Statistics, or their equivalent.

b. Research Paper Option

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To complete this option, the candidate must complete two additional 5-credit hour seminars (each consisting of a 6000-level reading seminar plus 2 credit hours of supplementary work on a substantial research paper.) The candidate may choose a fourth field in addition to the three already represented in the core to complete this option.

Museum Studies Concentration - 39 hours

Master of Arts in History (Museum Studies) and Graduate Certificate in Museum Studies

These options are intended for students planning to pursue professional careers in museums. In addition to the core requirement of substantive courses in history, the Museum Studies program includes intensive training in the theory and practice of museology. This innovative program is a collaboration between the Departments of History, Anthropology, and Art and Art History, the Missouri Historical Society and the St. Louis Mercantile Library. It is taught by a combination of professors and practicing professionals from St. Louis-area museums. Recognizing that the museums field is in a period of rapid change, the program is designed to train students for leadership in the emergence of a new paradigm of museology that focuses on relationships between museums and the people and communities that they serve.

For most students this will be a terminal master of arts degree, fully preparing graduates for immediate entry into museum careers in a variety of positions. While the core requirement focuses on history studies, the museological training is applicable to employment in any type of museum.

Admission Requirements

Applicants wishing to enter the Museum Studies concentration must apply specifically for that concentration on the graduate application; successful application for the general M.A. program in history does not automatically provide access to the Museum Studies program. Applications for the Museum Studies concentration will be accepted only for the fall semester. Because of the prescribed sequence of course work, no midyear entry into the program will be allowed.

In addition to the general criteria of the Graduate School, applicants for the Museum Studies concentration must meet several additional criteria of the Department of History and the museum studies program. Applicants' undergraduate studies need not have been in history, but they must demonstrate high academic potential. Normally, the history department admits only students with a 3.2 grade point average in their undergraduate major; most successful applicants have higher grades. Applicants must submit three letters of recommendation, preferably from former teachers and/or employers, and a sample of their written work. The sample may or may not be academic work, and length is not a consideration. Besides these departmental requirements, applicants must submit the Museum Studies Supplemental Application. The supplemental application includes a statement of intent for pursuit of a museum career.

The departmental Graduate Committee and the director of the museum studies program will base their admissions decisions upon the undergraduate transcript, the letters of recommendation and the sample of written work.

Applications for the museum studies program must be received by the university no later than March 1.

All candidates for the M. A. in History with a Concentration in Museum Studies must complete:

HIST 6134 (p. 161)	History Curatorship	5
HIST 6135 (p. 161)	Foundations Of Museology I	3
HIST 6136 (p. 161)	Foundations In Museology II	3
HIST 6137 (p. 161)	Effective Action In Museums	3

These courses are cross listed under the same numbers in the Anthropology Department and the Art and Art History Department.

Students may enroll through the department of their choice. All candidates must also complete ART ED 5588 (p. 161) Museum Education and Visitor Research and ANTHRO 6139 (p. 161) Practicum in Exhibit and Program Development. Together, these courses provide a solid foundation in the theory and history of museology and in practical skills for museum work. As a final requirement, candidates must complete HIST 6138 (p. 161) or ANTHRO 6138 (p. 161). This exit project will be the capstone demonstration of competence in museum studies. The specific nature of this demonstration will be customized to the interests and career aspirations of each student. It may take the form of a traditional thesis, an exhibit project, or some other appropriate form, as approved in advance by the candidate's advisory committee

In addition to these requirements, all candidates must complete 15 hours of elective history course work, with no more than 6 hours of history at the 3000 level. Museum Studies students will take courses distributed in any proportion between the fields of "United States to 1865" and "United States Since 1865." Both the director of the Museum Studies Program and the graduate director of the History Department must approve in advance any exceptions to this requirement (e.g., selections of courses from another field, such as European or African history).

Graduate Certificate in Museum Studies

A very limited number of positions may be available for students who wish to pursue only the Graduate Certificate in Museum Studies without seeking the M.A. in History. In most cases, these will be students who already hold an advanced degree and are currently working or planning to work in a museum but who have had no formal training in museum studies. Candidates for the Graduate Certificate must complete:

	HIST 6135 (p. 161)	Foundations Of Museology I	3
	HIST 6136 (p. 161)	Foundations In Museology II	3
	HIST 6137 (p. 161)	Effective Action In Museums	3
	HIST 6138 (p. 161)	Museum Studies Master's Project	4
	ART ED 5588 (p. 161)	Museum Education and Visitor Research	3
	ANTHRO 6139 (p. 161)	Practicum In Exhibit & Program Development	3
	Total Hours		19

Contact the director of the Museum Studies Program for availability and special application procedures.

Graduate Certificate in Public History and Cultural Heritage

(Pending CBHE Approval)

The Graduate Certificate in Public History and Cultural Heritage at the University of Missouri-St. Louis is an 18-credit program that provides interdisciplinary training for students pursuing careers that engage communities with the past. The theoretical knowledge and practical experience gained through coursework and internships will prepare graduates for a wide variety of jobs in museums, historical societies, cultural resource agencies, historic preservation, community development, and tourism, particularly those located in the St. Louis region.

Admission Requirements

Applicants wishing to pursue the Graduate Certificate in Public History and Cultural Heritage in conjunction with an MA degree should follow the normal application procedures for their respective Master's level program. Applicants wishing to pursue the Graduate Certificate in Public History and Cultural Heritage alone normally must have a GPA of 3.2 or higher and should apply specifically for this certificate program and submit three letters of recommendation and a writing sample along with their application.

Program Requirements

All candidates for Graduate Certificate in Public History and Cultural Heritage must complete the following courses:

HIST 6001 (p. 161)	The Historian's Craft	1-3
HIST 6124 (p. 161)	Graduate Internship	3
HIST 6125 (p. 161)	Practicum in Public History and Cultural Heritage	3

In addition, students must take an additional nine credits at the graduate level in courses approved by the Program Director. Courses available to fulfill this additional nine-credit requirement include:

ANTHRO 4309 Archaeological Field School (p. 161)

ANTHRO 4310 Laboratory Methods In Archaeology (p. 161)

ANTHRO 5312 Cultural Resource Management And Historic (p. 161) Preservation

ED TECH 6454 Instructional Video Production (p. 161) POL SCI 6470 (p. Proseminar In Urban Politics

Please see the Program Director for additional courses that may be available

Total Hours

Graduate Certificate in History Education

The Graduate Certificate in History Education is designed for practicing teachers, instructional coordinators, and history educators in the community who are seeking to deepen their knowledge of history education. It will offer history and social studies educators a program that integrates historical and educational knowledge, theory, and practice. The purpose of the certificate is to improve the practice of history education in schools and the community, to introduce history educators to metahistorical theory and practice, to deepen their historical knowledge, and to encourage sophisticated teaching and curriculum development built on research at the intersection of history and the learning sciences.

Admission Requirements

Applicants wishing to pursue the Graduate Certificate in History Education in conjunction with an MA degree or an MED should follow the normal application procedures for their respective Master's level program. Applicants wishing to pursue the Graduate Certificate in History Education alone normally must have a GPA of 3.2 or higher and should apply specifically for this certificate program and submit three letters of recommendation and a writing sample along with their application.

Program Requirements

All candidates for Graduate Certificate in History Education must complete:

HIST 6113 (p. 161)	Readings In East Asian History	3-5
HIST/TCH ED 6115		3
HIST 6116 (p. 161)	Historical Thinking in Theory and Practice II	3

Students must take an additional nine credits at the graduate level in History or Education courses as approved by the Program Director.

Career Outlook for B. A. and M. A. graduates

An important rationale for the discipline of history is its centrality to the university curriculum and to the life experience. The ability to put events or developments into the context of the past is useful as well as pleasurable. Responses to a questionnaire sent to history graduates have indicated that alumni in a wide variety of fields are as conscious of and appreciative of their training in history as those who have chosen it as a profession. Men and women in business, lawyers, bankers, librarians, and foreign service officers have all found it relevant to their careers. Study and research in history sharpens organizational and writing skills important to success in business and the legal profession. A growing interest in local history has created employment opportunities in museum, archival, and preservation work.

Career Outlook for M. A. with **Concentration in Museum Studies**

There are more than 8,000 museums in the United States. History museums constitute more than half of that total and employ approximately one-third of the 150,000 paid staff working in U. S. museums. While job requirements vary widely among individual museums and specific 13-15 professional roles, the M.A. degree offered by this program qualifies graduates for a wide range of career opportunities, in history museums and in other types of museums as well. The Museum Studies Program provides students with placement assistance and counseling and with access to a wide range of information on career opportunities in the field, and program faculty use their extensive networks in the field to help identify opportunities and to place students.

Courses

3

HIST 1000 Selected Topics In History: 1-3 semester hours

Prerequisite: Consent of Instructor Special topics in history. May be repeated for credit with consent of instructor.

HIST 1001 American Civilization To 1865: 3 semester hours

Evolution of the cultural tradition of the Americas from the earliest times to the mid-nineteenth century, with emphasis on the relationship of ideas and institutions to the historical background. Course fulfills the state requirement.

HIST 1002 American Civilization 1865 To Present: 3 semester hours Continuation of ECON 1001 to the present. Course fulfills the state requirement. Either ECON 1001 or ECON 1002 taken separately.

HIST 1003 African-American History: 3 semester hours

A survey of African-American history from the beginning of the European slave trade to the modern Civil Rights era. This course meets the state requirement.

HIST 1004 The History Of Women In The United States: 3 semester hours

Same as GS 1004. A survey of women's history from the colonial era to the present.

HIST 1030 The Ancient Empires of the Mediterranean: 3 semester hours

Survey of ancient history in the near east, the Aegean, the central and western Mediterranean. Themes: politics and economy, war and society, culture, including art, literature, technology, religion and philosophy. The chronological span is from the neolithic period (7500-3000 B.C.) in the near east to the fall of the Roman Empire in the fifth century A.D.

HIST 1031 Topics European Civilization: Emergence Of Western Europe To 1715: 3 semester hours

Lectures and discussions on the development of western European society and tradition from approximately 1000 to 1715.

HIST 1032 Topics In European Civilization: 1715 To The Present: 3 semester hours

Lectures and discussions on the development of western European society and tradition from 1715 to the present.

HIST 1037 The Wonders of Greece: Introduction to Greek History and Culture: 3 semester hours

SAME AS ANTHRO 1037. Our democracy and culture have been heavily influenced by Greek civilization. This course will introduce students to the culture and civilization of Greece in order to provide a better understanding of our own society. The course will cover the political and military history, art, literature, philosophy, and science of Greece from prehistoric to modern times, with special emphasis on Greek civilization's enduring democratic and cultural ideals. The course will include screening of films and use of online resources.

HIST 1038 Byzantine History and Culture: 3 semester hours

Same as ANTHRO 1038. This course introduces the history of the Byzantine Empire from the fourth through the fifteen centuries. Covering more than a millennium of history, this course focuses on selected aspects of the empire's history, while adhering to a basic chronological frame. We will examine religious developments (monasticism, theological controversy, the Catholic-Orthodox Schism); military and cultural interactions with neighbors (Crusaders, Islam); and Byzantine culture, particularly art, literature, and architecture.

HIST 1041 East Asian Civilization: 3 semester hours

The development of Asian civilization from earliest times to the Manchu conquest.

HIST 1042 East Asian Civilization: 3 semester hours

Continuation of HIST 1041 with emphasis on the Asian response to the Western incursion. Either HIST 1041 or HIST 1042 may be taken separately.

HIST 1051 Latin American Civilization: 3 semester hours

A survey of selected topics important in the development of Latin America from pre-Columbian times to the twentieth century.

HIST 1052 Mexican Civilization: 3 semester hours

This course will focus on the history and culture of Mexico from the Aztecs to the mid-twentieth century. Among the topics to be covered are: the Aztecs, Cortez and the Conquest of Mexico, colonial institutions and culture, the obtaining of political independence, disorder and dictatorship in the nineteenth century, the Mexican Revolution, contemporary Mexico. This course meets the non-Euro-American requirement.

HIST 1061 African Civilization: From The Beginning of Humanity to The End of The Slave Trade: 3 semester hours

Introduction to cultural history from the emergence of early humankind to the abolition of the Atlantic slave trade. This course fulfills the Cultural Diversity requirement.

HIST 1062 African Civilization II: From Colonies to Nations: 3 semester hours

Survey of African initiative and response in the period spanning the loss and reassertion of independence. Either HIST 1061 or HIST 1062 may be taken separately.

HIST 1075 World History to 1500: 3 semester hours

A survey of the history of humankind to 1500 including the beginnings of civilization Mesopotamia, Africa, Asia and the Americas, the rise of Classical civilizations and the development of major transnational social, economic, political and religious networks.

HIST 1076 World History Since 1500: 3 semester hours

A survey of the history of humankind since 1500, emphasizing the growing interdependency of regional economic, political, and social systems. Topics will include imperialism, industrialization, and globalization.

HIST 1111 Reacting to the Past: 4 semester hours

Reacting to the Past is a series of historical simulations built around key moments and texts from the past. In each simulation, students are assigned a role and develop that character. The course offers students a rigorous academic experience in which they conduct historical research, speak, and write extensively. Because this course requires extensive writing, it fulfills the requirement for Freshman Composition.

HIST 1175 Arts And Ideas: 3 semester hours

Same as ART HS 1175, ENGL 1175, M H L T 1175, PHIL 1175, TH DAN 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

HIST 1776 History of American Leadership: 3 semester hours

An introduction to the study of leaders in America that will cover different categories of political, cultural, social, and intellectual leadership and achievement. Crucial to the understanding of these categories is the question: how did leaders find their gift in becoming who they were and what leadership traits can be identified in the different categories under scrutiny.

HIST 1999 Big History: From the Big Bang to the Blackberry: 3-6 semester hours

SAME AS INTDSC 1999. An introduction to the humanities, social science, and science disciplines through a sweeping overview of natural and human history from the Big Bang to the present. Course will include lectures from faculty in various Arts and Sciences units, films, field trips, and group discussions.

HIST 2000 Selected Topics In History: 1-4 semester hours

Prerequisite: consent of instructor Special topics in history. The course may be repeated for credit with consent of the instructor.

HIST 2001 Creating Early America: European Empires, Colonial Cultures, and Native Nations. 1565-1776: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. This contentrich course explores the transatlantic migrations and Indian interactions that laid the foundations of the American nation before 1776.

HIST 2003 United States History: From Nation to Civil War: 3 semester hours

Prerequisite: Soph standing or consent of the instructor. The "Era of Good Feelings"; the Age of Jackson; manifest destiny; the political and social developments of the antebellum period relating to the growth of sectionalism and the developing antislavery crusade.

HIST 2004 United States History: The Civil War Era, 1860-1900: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor The Civil War, Reconstruction, industrial and urban expansion and their impact on American life.

HIST 2005 The Modernization Of The United States: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor Studies in the economic, political and social development and crises of the maturing industrial United States between 1877 and 1940, and the growing importance of foreign relations.

HIST 2006 Recent United States History: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. The economic, political and social developments and crises of post-industrial United States. The role of foreign affairs in American life.

HIST 2007 History Of Missouri: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Lecture and readings. Seventeenth-century Spanish and French explorations and interaction with the Indians; settlement and organization of the Louisiana territory; lead mining and the fur trade; the Louisiana Purchase; the Missouri territory; the struggle for statehood and slavery; antebellum politics; banking and internal improvements; westward expansion; Civil War and reconstruction; postwar agrarian politics, industrialization; Irish, German, and southern European immigration; the Progressive reforms-Political and economic changes; and twentieth-century social changes and political developments. Course satisfies the state requirement.

HIST 2008 History Of St. Louis: 3 semester hours

Prerequisites: Sophomore standing or the consent of the instructor This course will provide an overview of the history of the St. Louis metropolitan region from its founding in 1764 to the present. Main topics will include: the St. Louis region before the Europeans, forces leading to the founding of the city, St. Louis as an "urban frontier", the Age of Steam on water and rail, the questions of slavery and the Civil War, St. Louis in the Gilded Age, the World's Fair, early efforts at city planning, impact of the automobile, St. Louis during the Depression and World War II, post-war suburbanization, urbal renewal St. Louis style, school desegregation, the Schoemehl years, the emergence of St. Louis "Edge Cities", and St. Louis 2004.

HIST 2009 St. Louis And The West: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. An examination of the role St. Louis played in the evolution of the North American West, both in the United States and Canada, from the fur trade of the late eighteenth century to the opening of the Texas oil fields in the early twentieth century. Special emphasis will be given to competition between river and rail transportation corridors, and hence to the rivalry that developed between St. Louis and Chicago.

HIST 2010 From Sea to Shining Sea: The American Frontier 1763 - 1890: 3 semester hours

This is a history of the colonization of the Great West, from the end of the French and Indian War to the official closing of the frontier in 1890. The westward movement will be examined as a major factor in explaining American development.

HIST 2011 American West: The Truth Behind the Hollywood Myths: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor An exploration of the history of the American West from the 1750s to present, with emphasis on the role of transportation. Urban gateways such as St. Louis and San Francisco and transportation corridors such as the Missouri River and the Santa Fe and Oregon trails will be of particular importance.

HIST 2012 The Indian In American History: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Investigates Native American encounters with non-Indian peoples between 1600 and 1900, analyzing how traditional Indian cultures changed to meet a variety of new challenges introduced to North America by Europeans and Africans. The approach will be interdisciplinary and ethnohistorical with emphasis placed on case studies of important native nations at key turning points in their history.

HIST 2013 The Rise and Fall of American Cities: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. The physical and spatial growth of U.S. cities from colonial times to the present with special attention to the impact of industrialization, public policy, and advances in transportation technology.

HIST 2015 Topics In African-American History: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Will explore a salient topic in African-American history. Such historical documents as personal narratives, letters, government documents, and autobiographies as well as monographs, articles, and other secondary sources will be used to explore topics such as slavery and slave culture in the United States; blacks and America's wars; the African-American intellectual tradition; or, African-Americans and the Great Migration.

HIST 2016 African-American History: From Slavery to Civil Rights: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor: This course examines the impact of region, gender, and class on black activism by focusing on topics such as remembering slavery and emancipation, institution and community building during segregation, changing strategies in politics and protest, and the emergence of the direct action civil rights movement.

HIST 2017 African-American History: From Civil Rights To Black Power: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. A seminar on the activities, ideas, movement centers, and personalities that created the Civil Rights and Black Power movements in the U.S. from the 1950's through the 1970's. Some familiarity with the broad contours of U.S. History is presupposed. Special attention will be devoted to the roles of the African-American masses, college students, and women, and to the points of conflict, cooperation, and intersection between African-America and the larger American society.

HIST 2018 The Vietnam War: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. This course will examine the events leading up to the Vietnam War, the military aspects of the conflict, and public reaction.

HIST 2020 History of Women and Social Movements: 3 semester hours

Same as GS 2020. Prerequisites: Sophomore standing or consent of the instructor. This course explores the history of women and social movements in the nineteenth and twentieth century United States. It considers social and political movements such as abolitionism, women's suffrage, progressivism, the labor movement, the civil rights movement, and second wave feminism.

HIST 2022 The Automobile and American Life: 3 semester hours

This course uses the automobile as a window into 20th-century American life. It examines the influence of automobility on patterns of work and leisure; on struggles over gender, race and ethnicity; on individualism, consumerism, and government regulation. It also surveys mass automobility's effects on our physical and natural environments and looks at future prospects of automobility in the information age.

HIST 2023 US Foreign Relations and Military History To 1900: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructorBulletin description: A survey of American foreign and military affairs to 1900, with particular emphasis on European conflicts, national expansion, Indian Wars, and the Mexican War.

HIST 2024 US Foreign Relations and Military History Since 1900: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. A survey of American foreign and military affairs since 1900, with particular emphasis on the major wars during the period and the cold war era. Consideration of the nation's changing place in a changing world.

HIST 2025 Topics in Military History: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. This course will examine a prominent military engagement in the past and consider strategic, diplomatic, and broad cultural aspects of the event. The particular military engagement investigated will vary from one semester to another. May be repeated if topics differ.

HIST 2028 Sex, Drugs, and Rock 'n Roll: The 1960s in Song, Fashion, Dating, and Protest: 3 semester hours

HIST 2052 History Of Latin America Since 1808: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. Emphasis on the attainment of political independence and social, political, and economic developments of the nineteenth and twentieth centuries in Latin America. This course satisfies the cultural diversity requirement.

HIST 2053 Modern Mexico: 3 semester hours

Mexico from the Revolution to the present, covering major political, social, and cultural developments of the twentieth century including foreign population migration, the student movement of the 1960s, the rise and fall of the PRI, and the impacts of globalization.

HIST 2063 African Diaspora To Abolition of the Slave Trade: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Comparative in scope, the course examines major themes in West and Central Africa and their impact on the history of Africans in the Atlantic diaspora up to 1800. Themes include: slavery, multi-racialism, economics of the South Atlantic system, political dimensions and the social transformation from heterogeneous crowds to new and homogeneous communities. Linkages between Africans and their descendants in the Atlantic communities of Latin America, the Caribbean, as well as North America will be stressed. This course fulfills the Cultural Diversity requirement.

HIST 2064 African Diaspora in the Age of Migration: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Comparative in scope, this course uses a comparative methodology to examine the major themes in West and Central Africa and their impact on the history of Africans in the Atlantic diaspora after 1800. This course fulfills the Cultural Diversity requirement.

HIST 2081 Rome: The Republic And Empire: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. A survey of the development of Roman political and cultural life from the Legendary founding of the city in central Italy in 753 BC to the death of the Emperor Justinian in 565 AD.

HIST 2082 Christianity: From Jesus to Martin Luther: 3 semester hours

The purpose of this course is to orient students in the scholarship about the Christian Church in the Western tradition as an institution. Open discussion is encouraged, and all traditions will be respected in the interest of expanding our knowledge of the past as well of as the living communities today.

HIST 2083 Europe In Early Middle Ages: Paganism to Christianity: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. The end of the Roman Empire as a universal entity; the successor states of the Mediterranean and Northern Europe; the emergence of a Western Christendom under the Franks; the development of feudal states; the Gregorian reforms; the Crusades; the revival of education and learning in the twelfth century.

HIST 2084 Crusades and Plagues: Europe In The High And Late Middle Ages: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. Medieval society at its political, economic, and intellectual zenith; the crisis of the later Middle Ages; the Papal schism and the development of national particular churches within Catholicism; and the rise of estate institutions.

HIST 2085 Medieval England: From Arthur to Richard III: 3 semester

Prerequisite: Sophomore standing or consent of the instructor. A brief summary of the Anglo-Saxon heritage and the impact of the Norman Conquest, followed by an investigation of the institutional, social, and legal evolution of the realm of England. English development will be viewed in its European context.

HIST 2086 Reformation of Europe: Beyond Religion: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. Religious, intellectual, political, and socioeconomic developments of the sixteenth century.

HIST 2088 Europe and the Renaissance: Not Just for Painters Anymore: 3 semester hours

Prerequisites: Sophomore Standing or consent of the instructor. The Italian and Northern Renaissance as a distinct age; political, socioeconomic, intellectual, religious, and artistic movements attending the decline of medieval society, and the transition to the early modern period.

HIST 2089 Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West: 3 semester hours

Sophomore standing or consent of instructor. An examination of some of the most important ideas and debates that shaped the Western world. Topics include Platonic versus Aristotelian models of the universe, Medieval synthesis and the challenge of Renaissance naturalism, the Scientific Revolution, the political ideas of Thomas Hobbes, John Locke, and Jean-Jacques Rousseau, romanticism, Marxism, Darwinian evolution, Freudian psychology, existentialism, structuralism and poststructuralism.

HIST 2090 Europe in the Eighteenth Century:From the Glorious Revolution to the Napoleonic Era: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. This course offers intensive study of Europe in the period between the Glorious Revolution in England in 1688 and the fall of Napoleon in 1815. Particular emphasis will be placed on the theme of the rise of the modern. Specifically, the course will examine the struggle by intellectuals, politicians, and military figures to move Europe forward from the old regime system. Particular emphasis will be placed on the works of Voltaire, Rousseau, Locke, and Paine.

HIST 2091 Europe in the Nineteenth Century: From Waterloo to World War I: 3 semester hours

Prerequisites: Sophomore standing or Consent of Instructor. This course offers intensive study of Europe in the period between the fall of Napoleon in 1815 and the turn-of-twentieth century. Particular emphasis will be placed on the themes of industrialization, overseas colonization, and the development of nationalist, socialist, and liberal ideas.

HIST 2095 History of Ireland: 3 semester hours

This course will explore Irish history from medieval to modern times. Topics will include issues of land, settlement, immigration, and modernization.

HIST 2102 Introduction To Gender Studies: 3 semester hours
Same as GS 2102, SOC WK 2102, and SOC 2102. This core class is
required for all Women's and Gender Studies Certificate earners. This
class introduces students to cultural, political and historical issues that
shape gender. Through a variety of disciplinary perspectives in the

shape gender. I hrough a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

HIST 2105 Sex in America: 3 semester hours

Prerequisites: Sophomore Standing or consent of the instructor. Dissected, categorized, evaluated, feared, and enjoyed: sex in America's past, including our current obsession with it, is the primary concern of this course. Why and how have sex and sexuality become so central to identities, culture, politics, and now, our history? This course explores the complex and often hidden history of sex in the United States. It uses sex to examine big political ideas of citizenship, democracy, and cultural inclusion.

HIST 2116 History of Greece and The Balkans: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. This course is designed to introduce students to the history of the Balkans with particular emphasis on Greece. Although a part of the course will deal with nation building and nationalism, we will also examine the broad historical trends that have shaped the distinct cultural, social, and political developments in the region from the late 18th century until the end of the 20th century.

HIST 2117 Greek History And Culture: 3 semester hours

Same as ANTHRO 2117. Greek civilization has had a deep impact on contemporary society in art; social, political, and economic organization; philosophy; law; medicine; and science. This course covers major aspects of Greek history and culture from antiquity to the present. It considers the major political and military events of Greek History, as well as important aspects of Greek culture, including sports and the history of the Olympic Games, literature, philosophy, and mythology.

HIST 2118 Modern Greek History and Culture: 3 semester hours Same as ANTHRO 2118. A history of Modern Greece, from the fall of

Constantinople (1453) to the present, with an emphasis on social, cultural, and political developments. The course will provide a chronological framework of events and it will utilize art, literature, and folklore, along with traditional historical sources, to gain a better understanding of the richness of modern Greek history and culture.

HIST 2219 United States Labor History: 3 semester hours

Examines the history of work and the working class in the United States. It focuses on the transformation of the workplace, the evolution of working class consciousness and the development of the labor movement, the role of race, gender and ethnicity in uniting or dividing the working class, and the nature of labor's relations with other social groups in the political arena. Particular emphasis on the political and economic conditions and strategies of periods when working class power was growing.

HIST 2770 Introduction To Transportation: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Introduction to Transportation provides an overview of the transportation sector, including history, providers, users, and government regulation. The importance and significance of transportation modes of rail, water, motor, air, and pipeline: the demand and supply of transportation, and the managerial aspects of these modes of transport will be covered in the course.

HIST 2772 History Of Aviation In American Life: 3 semester hours

Prerequisites: Sophmore standing or consent of instructor. Course focuses on the history of aviation in the United States from balloon flights preceding the Wright brothers through the terrorist attacks in September 2001 with emphasis upon how aviation and aviators have influenced American society and culture. Themes include the evolution of aviation technology, the growth of the commercial/military aviation/aerospace industries, issues of race and gender in aviation, the development of America's commercial airlines, aviation's influence upon American art, films, advertising, and literature, the significance of the space race, and the role of aerial weapons of war.

HIST 2773 Urbanization And Transportation: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Course provides an overview of urbanization and transportation in the United States. Besides examining the history of urbanization and transportation, this course offers comparisons between contemporary international urban areas for the purpose of placing the US experience in context. Additionally, the course covers key issues surrounding the planning, development, and consequences of infrastructure facilitating the movement of people and freight in the urban setting, such as financing, transport technologies, political policies, economic growth, and demographic trends.

HIST 2800 History Of American Economic Development: 3 semester hours

Same as ECON 2800. Prerequisites: ECON 1000 or ECON 1001 or consent of instructor. Uses economic concepts to explain historical developments in the American economy, beginning with the hunter gatherers who crossed the Bering land bridge around 12,000 BC. Main topics include the Native American economies, European exploration and conquest, the colonial economies, indentured servitude, the American Revolution, the US Constitution, westward expansion, transportation, the Industrial Revolution, state banking and free banking, slavery, the Civil War, post-bellum agriculture, the rise of big business and antitrust, banking panics, the Federal Reserve Act, the First and Second World Wars, the New Deal, and the growth of government in postwar economy.

HIST 2999 Introduction to Historical Inquiry: 4 semester hours

Prerequisites: Sophomore standing or consent of instructor. This course is designed to develop historical thinking skills. Emphasis will be placed on reading of historical sources, exploring the rhetoric of history, identifying perspectives in historical sources, and the process of formulating historical questions. Other topics covered will include proper citation procedures and historiography. The course is writing intensive and will involve primary source research at libraries and archives.

HIST 3000 Selected Topics In History: 3 semester hours

Prerequisite: Junior standing or consent of instructor. Special topics in history to be determined by the field, availability of instructors and interest of students. The course may be repeated for credit with the consent of the instructor.

HIST 3031 Modern Japan: From the Meiji Restoration to the Present: 3 semester hours

Prerequisite: Junior Standing Or Consent Of Instructor. The Economic, Social, And Political Development Of Modern Japan.

HIST 3032 Modern China: From the Decline of the Qing Empire to the Global Age: 3 semester hours

Prerequisite: Junior Standing Or Consent Of Instructor. The Economic, Social, And Political Development Of Modern China.

HIST 3033 Modern History Of The Asian Pacific Rim: 3 semester hours

Prerequisites: Junior standing or consent of the instructor. A course on the modern history of the broad economic region of East and Southeast Asia as well as the region's interaction with the United States. The course is designed for students who need to understand the political and economic dynamics of the countries around the Pacific Basin and the historical roots of various problems.

HIST 3041 Topics In American Constitutional History: 3 semester hours

Prerequisite: Junior standing or consent of instructor. Origins and development of the principal institutions and ideas of the American constitutional systems; the role of the constitution and the Supreme Court in the growth of the nation; important Supreme COurt decisions; great American jurists and their impact upon the law; historical background to current constitutional issues.

HIST 3043 History Of Crime And Justice: 3 semester hours

Same as CRIMIN 3043. Prerequisites: Junior standing or consent of instructor. The analysis, development, and change in philosophies and responses to crime. Emphasis on major forms and definitions of crime, the emergence of modern policing, the birth of the prison, and the juvenile court system.

HIST 3051 Latin America: From Conquest to Independence: 3 semester hours

Prerequisites: Junior standing or consent of Instructor. Latin America from the pre-Columbian Civilizations to 1808, stressing social, political, and economic institutions in the Spanish colonies. This course satisfies the Cultural Diversity requirement.

HIST 3092 Europe, 1900-1950: War And Upheaval: 3 semester hours Prerequisites: Junior standing or consent of the instructor. The impact of World Wars I and II and the search for equilibrium.

HIST 3093 Europe, 1950-Present: Peace And Prosperity: 3 semester hours

Prerequisites: Junior standing or consent of instructor. A survey of the main social, economic, political, military, and cultural trends in Europe since the outbreak of World War II.

HIST 3097 Spain: From Superpower to Napoleon's Puppet: 3 semester hours

Prerequisite: Junior standing or consent of instructor A survey of Spanish history from the fifteenth century, emphasizing its period of imperial greatness and examining the effects of empire on national development.

HIST 4001 Special Readings: 1-10 semester hours

Prerequisite: Consent of the instructor. Independent study through readings, reports and conferences.

HIST 4002 Collaborative Research: 3 semester hours

Prerequisite: Consent of instructor Faculty-student collaboration on a research project designed to lead toward the publication of a jointly-authored article. The faculty member will direct the research.

HIST 4003 Internship: 3-6 semester hours

Prerequisites: Consent of Supervising instructor and instituion offering the internship Supervised practicum in a museum, historical agency, and other institution offering an opportunity for hands-on experience in public history. This elective course supplements but does not replace the requirements for a baccalaureate degree in history. May not be taken for graduate credit.

HIST 4014 World History For The Secondary Classroom: 3 semester hours

Prerequisites: TCH ED 3310 or consent of the instructor. This course is required for Social Studies certification. Adapts the themes and subject matter of World History to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of World history, on expanding bibliography, and on choosing methods of inquiry for use in an interactive classroom. Cannot be counted towards the minimum 39-hour history major requirement, but can be counted towards the 45 hour maximum and for Social Studies Certification. Not available for graduate credit.

HIST 4142 Inquiries in U.S. History: 3 semester hours

Prerequisites: HIST 2999. This course will develop historical thinking and writing skills through investigation in topics in National History.

HIST 4143 Inquiries in World History: 3 semester hours

Prerequisites: HIST 2999. This course will develop historical thinking and writing skills through investigation in topics in World History.

HIST 4999 Senior Seminar: 5 semester hours

Prerequisites: HIST 2999, consent of department and presentation of three examples of formal written work submitted in prior upper-division courses in history. Studies in historical methodology and historiography. Directed readings, research, and writing leading to the production of an original piece of historical scholarship. An exit interview is required. Senior seminar is required of all history majors. May not be taken for graduate credit.

*HIST 5000 Advanced Selected Topics In History: 3 semester hours*Prerequisite: Graduate standing Special topics in history. The course may be repeated for credit with consent of the instructor.

HIST 5142 Advanced Inquiries in U.S. History: 3 semester hours
Prerequisite: Graduate standing. This course will develop historical
thinking and writing skills through investigation in topics in United States
history.

HIST 5143 Advanced Inquiries in World History: 3 semester hoursPrerequisite: Graduate standingThis course will develop historical thinking and writing skills through investigation in topics in World history.

HIST 5592 The History of the Visual Arts in American Museums: 3 semester hours

Same as ANTHRO 5592 and ART HS 5592. Prerequisites: Graduate Standing and consent of instructor. This course is an introduction to selected topics in the history of museology, focusing on art and anthropology museums as sites for the interpretations of art and culture, and as contested meeting grounds for various views of history and culture.

HIST 6000 The Historian's Craft: 1-3 semester hours

This course will introduce incoming students to graduate work, both in the field of history generally and to the M.A. program at UM-St. Louis in particular. It will familiarize them with the fields of historical study and the UMSL faculty who teach them, protocols of the profession, and methodologies of historical research, writing, and analysis. It will also help students learn about and prepare for careers outside the academy and/or Ph.D. programs in the field. Students may be required to attend colloquia off campus.

HIST 6001 Introduction to Public History and Cultural Heritage: 3 semester hours

Prerequisites: Graduate Standing or Consent of Instructor. This seminar will introduce students to the theory and practice of public history and cultural heritage. Readings will acquaint students with these fields of study and offer commentary on a variety of strategies for making the past relevant for contemporary audiences.

HIST 6013 Historical and Theoretical Foundations of US History in Schools and Communities: 3 semester hours

Prerequisites: Graduate standing or consent of instructor The intent of this course is to foster critical inquiry into school and public presentations of historical knowledge. Particular emphasis will be placed on defining the broad and connecting themes of U.S. History and the political and cultural struggles that have shapped school curriculum and public discussion since the nineteenth century.

HIST 6014 World History For The Secondary School Classroom: 3-6 semester hours

Prerequisites: Graduate standing or consent of instructor The intent of this course is to adapt the themes and subject matter of World history to the secondary classroom and to train teachers in the methodology of Socratic symposium, techniuqes designed to maximize the use of sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of World history, on expanding bibliography, and on methods for choosing primary sources for use in an interactive classroom. HIST 6014 may not be used to meet history degree requirements.

HIST 6101 Readings In American History To 1865: 3-5 semester hours Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in American history to 1865.

HIST 6102 Readings In American History Since 1865: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in American history since 1865.

HIST 6104 Readings In African-American History: 3-5 semester hours Prerequisites: Graduate standing and consent of instructor Directed readings and writing on selected topics and areas in African-American history.

HIST 6111 Readings In European History To 1715: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in European history to 1715.

HIST 6112 Readings In European History Since 1715: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in European History since 1715.

HIST 6113 Readings In East Asian History: 3-5 semester hours Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in East Asian history.

HIST 6114 Readings In Latin American History: 3-5 semester hours
Prerequisites: Graduate standing and consent of instructor. Directed
readings and writing on selected topics and areas in Latin American
history.

HIST 6115 Historical Thinking in Theory and Practice I: 3 semester hours

Prerequisites: Graduate Standing or consent of instructor. Same as TCH ED 6115. This course explores theoretical and research literature on historical thinking. It further examines effective teaching strategies and curriculum materials that facilitate historical thinking and reading skills while also broadening content knowledge. It will familiarize students with text and web-based resources available for instruction.

HIST 6116 Historical Thinking in Theory and Practice II: 3 semester hours

Same as HIST 6116. Prerequisites: HIST 6115 / TCH ED 6115 or consent of instructor. Building upon HIST 6115 / TCH ED 6115, this course emphasizes the design, implementation, and assessment of teaching materials and practices that foster historical thinking and reading. In this hands-on, action research course, students will focus on their own teaching materials and practices to improve their capacity to teach and assess students' historical thinking.

HIST 6121 Directed Readings: 1-3 semester hours

Prerequisites: Consent of a member of the Doctoral Faculty. Directed research at the graduate level.

HIST 6122 Collaborative Research: 3-6 semester hours

Prerequisites: Graduate Standing and Consent of Instructor Faculty-student collaboration on a research project designed to lead toward the publication of a jointly-authored article. The faculty member will direct the research.

HIST 6123 Thesis Seminar: 1-6 semester hours

Prerequisites: Graduate standing and consent of instructor. Thesis research and writing on a selected topic in history.

HIST 6124 Graduate Internship: 3 semester hours

Prerequisites: Consent of supervising instructor and institution offering the internship. Supervised practicum in a museum, historical agency, and other instituion offering an opportunity for hands-on experience in public history.

HIST 6125 Practicum in Public History and Cultural Heritage: 3 semester hours

Prerequisites: Graduate Standing or Consent of Instructor. In collaboration with a designated community partner, students will research and interpret the past for contemporary audiences. The course will combine traditional classroom sessions with hands-on training.

HIST 6134 History Curatorship: 5 semester hours

Prerequisites: Graduate standing and consent of instructor. Principles and practices of curatorship in history museums. Historiography and research in material culture; theoretical foundations; methodologies for collecting and curating collections; legal and ethical issues; interpretation; role of the history curator in exhibit and program development; responsibilities to the community.

HIST 6135 Foundations Of Museology I: 3 semester hours

Same as ART HS 6035 and ANTHRO 6135. Prerequisites: Consent of Director of Museum Studies Program. Concepts for understanding museums in their social and cultural context; history of museums; museology and general social theory; information transfer vs meaning-making models; museums and communities; the changing role of museums; museums as complex organizations; process models of museology.

HIST 6136 Foundations In Museology II: 3 semester hours

Same as ART HS 6036 and ANTHRO 6136. Prerequisites: HIST 6135 and consent of Director of Museum Studies Program Audience-centered approaches to museology; visitor research and learning theory; philosophical and practical considerations in museum planning; the physical design of museums; creativity; exhibit and program development; collections and curation; the challenge of diversity; the future of museums.

HIST 6137 Effective Action In Museums: 3 semester hours

Same as ART HS 6037 and ANTHRO 6137. Prerequisites: Consent of Director of Museum Studies Program. The nature of the work done in museums; how museums are organized to accomplish this work; professional roles and practices; technology and resources used by museums; skills for creative and effective leadership in project management and administration in museums; planning, flow charting, budgeting, team dynamics and related skills. The course will include several site visits to area museums and guest lectures by a variety of museum professionals.

HIST 6138 Museum Studies Master's Project: 4 semester hours Same as ART HS 6038 and ANTHRO 6138. Prerequisites: Consent of Director of Museum Studies Program. Research and writing/ exhibit development on a selected topic.

HIST 6140 Readings in Metropolitan History: 3-5 semester hours

Prerequisite: Graduate StandingDirected readings and writing on selected topics and areas in Metropolitan History.

HIST 6141 Readings in Regional History: 3-5 semester hours

Prerequisite: Graduate StandingDirected readings and writing on selected topics and areas in Regional History.

HIST 6142 Readings in U.S. History: 3-5 semester hours

Prerequisite: Graduate Standing. Directed readings and writing in selected topics and areas in United States History.

HIST 6143 Readings in World History: 3-5 semester hours

Prerequisite: Graduate Standing. Directed readings and writing on selected topics and areas in World History.

HIST 6150 Directed Readings in Metropolitan History: 1-3 semester hours

Prerequisites: Consent of a member of the graduate faculty. Directed readings and research at the graduate level.

HIST 6151 Directed Readings in Regional History: 1-3 semester hours

Prerequisites: Consent of a member of the graduate faculy. Directed readings and research at the graduate level.

HIST 6152 Directed Readings in U.S. History: 1-3 semester hours

Prerequisites: Consent of a member of the graduate faculty. Directed readings and research at the graduate level.

HIST 6153 Directed Readings in Worldl History: 1-3 semester hours

Prerequisites: Consent of a member of the graduate faculty. Directed readings and research at the graduate level.

HIST 7101 Doctoral Proseminar In Metropolitan History: 3 semester hours

Prerequisite: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7102 Doctoral Research Seminar In Metropolitan History: 3 semester hours

Prerequisites: Consent of the instructor and advanced graduate standing Discussion and presentation of research on a special topic within the field.

HIST 7110 Doctoral Proseminar in Regional History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7112 Doctoral Research Seminar in Regional History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7120 Doctoral Proseminar in National History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7121 Doctoral Research Seminar in National History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7130 Doctoral Proseminar in Transnational History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7131 Doctoral Research Seminar in Transnational History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7201 Doctoral Research Methods Seminar: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Theory based approach to the methods of historical research.

HIST 7202 Dissertation Research Seminar: 3 semester hours
Prerequisites: Consent of instructor and advanced graduate standing.
Dissertation research and writing on a selected topic in history.

Interdisciplinary Studies

The university offers a number of interdisciplinary programs and courses. These programs usually combine course offerings from several departments so the subject is examined from a multidisciplinary approach. While most persons who earn certificates do so in the process of completing their undergraduate degree, non-degree seeking students may complete a certificate. Below are descriptions of these interdisciplinary offerings:

- · Bachelor of Liberal Studies degree
- · Bachelor of Interdisciplinary Studies degree
- · Interdisciplinary undergraduate certificates
- · Interdisciplinary minors
- · Interdisciplinary courses

Interdisciplinary certificates for international or areas studies are housed in the Center for International Studies.

Bachelor of Liberal Studies (BLS)

The Bachelor of Liberal Studies is a degree program that enables students to combine structured areas of academic emphasis in ways more relevant to their interests than the standard academic major.

Students who participate in this program must declare their areas of study (two minors or a minor and undergraduate certificate) at the time they declare that BLS is their intended degree. The plan of study must be approved at the beginning of the program.

The BLS program is adminitered through the Department of Philosophy.

To obtain a Bachelor of Liberal Studies (BLS), a student must complete:

- UMSL General Education Requirements (consult General Education (p. 28) section of course listings)
- In addition, students must complete the State Requirement (3) and Cultural Diversity Requirement (3) if not met in General Education course selection
- The university requirement of proficiency in English Composition
 - ENGL 1100 (p. 175) First Year Writing
 - Junior Level Writing
- The university requirement of proficiency in Mathematics (to be completed in first 24 hours at the university)
- A Liberal Studies Concentration (33-41 hours) to consist of two designated BLS Minors in participating departments or other units (minimum of 15 hours each) or
- A designated minor and any undergraduate certificate (minimum of 15 hours in each). No course may be used more than once.
- A capstone course¹ (minimum of 3 hours) selected from one of the minors that make up the identified BLS core.

Also Required

- Minimum of 45 credit hours in upper level course work (2000 or higher)
 - Electives 28-42
 - · A minimum of 120 credit hours
 - · Overall GPA of 2.0 or better
 - GPA of 2.0 or better in BLS combination areas (unless otherwise specified)
 - Minimum grade of C in all courses used in BLS combination areas
 - Residency requirement, in addition to campus residency, unless otherwise specified, 9 graded hours in each minor and certificate at 2000 level or above and one capstone course
- Note: Not all minors have a designated BLS capstone course so students must be careful to pair minors and certificates so that they have a capstone course.

The College of Arts and Sciences (CAS), Fine Arts and Communication (CoFAC), Business Administration (BA), and the Pierre Laclede Honors College (PLHC) have joined together to make available Liberal Studies combinations involving the following units:

- · Department of Anthropology, (CAS)
- Department of Art and Art History, (CoFAC)
- · Department of Biology, (CAS)
- · College of Business Administration, (BA)
- · Department of Chemistry and Biochemistry, (CAS)
- · Department of Communication, (CoFAC)
- Department of Criminology and Criminal Justice, (CAS)
- Department of Economics, (CAS)
- · Department of English, (CAS)
- Department of Foreign Languages and Literature, (CAS)
- Department of History, (CAS)
- Pierre Laclede Honors College (PLHC)¹
- Department of Mathematics and Computer Science, (CAS)
- Department of Music, (COFAC)
- Department of Philosophy, (CAS)
- Department of Physics and Astronomy, (CAS)
- Department of Political Science, (CAS)
- Department of Psychology, (CAS)
- Department of Sociology, (CAS)
- Department of Theatre, Dance and Media Studies, (COFAC)
- Gender Studies Program, (CAS)
- Undergraduate certificates
- Must be admitted to Honors program.

Bachelor of Liberal Studies: Capstone and Other Restrictions

- Students who are planning to earn a Bachelor of Liberal Studies degree should declare the BLS as their major within the first 90 hours of the program. Declaration past this time may prevent timely graduation as all capstone courses are not available every semester.
- The School of Social Work, as well as the Colleges of Education, Nursing, and the Joint Engineering Program are not participants in the BLS program.
- 3. The following Colleges/Departments participate in the BLS program but do not offer a capstone course and must be paired with a minor

from one of the areas listed below: Business, Studio Art, Theater/ Dance, Statistics, Undergraduate Certificates and Interdisciplinary minors.

- 4. Students admitted to the Pierre Laclede Honors College who wish to present the Honors Certificate as a minor for the BLS must complete the Honors Capstone, (one or two credit hours) and also direct three to six hours of their Honors independent study requirement to work demonstrably relevant to their BLS program. Students should consult the BLS faculty advisor in the Honors College about this requirement.
- 5. The capstone is required in addition to the courses presented for the minor. A minimum grade of C must be earned in the capstone course. The capstone course is not counted toward the minor residency requirement.
- 6. Students choosing to combine the minor in History of Science and Technology with a minor in the Philosophy of Science and Technology may use the same course to satisfy the Logic and Methodology requirement for both minors and may select either PHIL 4491 (p. 175) or HIST 4999 (p. 175) as the capstone. However students selecting HIST 4999 (p. 175) must have also taken HIST 2999 (p. 175).
- 7. The following have identified a Capstone, so at least one of these minors must be included in the BLS program:

Anthropology

One additional 4000 level course in Anthropology not used in the 3 minor

Art & Art History

One additional 4000 level topics course in Art History not used in 3 the minor

Biology

BIOL 4889 (p. Senior Seminar 2 175)

Chemistry/Biochemistry

3 total hours from the options listed: 3 CHEM 3022 Introduction To Chemical Literature (p. 175)

CHEM 3905 Chemical Research

(p. 175) CHEM 4897 Seminar

(p. 175)

Communication

One additional 3000/4000 level Communication course not used 3 in the minor

Criminology & Criminal Justice

One additional 4000 level course in Criminology and Criminal 3 Justice, not used as part of the minor.

Economics

One additional 4000 level Economics course (except 3 ECON 4105 (p. 175), ECON 4160 (p. 175), and ECON 4550 (p. 175)) not used in the minor

One additional 4000 level English Literature course not used in 3 the minor. 1

Languages and Cultures

FRENCH 3211 Contemporary French Culture 3 (p. 175)

SPANISH 3210 (p. 175)	Hispanic Culture And Civilization: Spain	3	
or SPANISH 321 (p. 175)	Hispanic Culture And Civilization: Spanish Americ	а	
JAPAN 3280 (p. 175)	Readings in Japanese	3	
History			
HIST 4999 (p. 175)	Senior Seminar	5	
Honors College ²			
3 total hours taken from the options listed:			
HONORS 410 Independent Portfolio Writing			

HONORS 410Independent Portfolio Writing (p. 175)

HONORS 490@Independent Study In Honors

or HONORS 497100 ependent Study: Internships (p. 175)

Mathematics/Computer Science

Computer Science: One additional 4000 Level Course in 3 Computer Science not used in the minor. 3

Mathematics: One additional 4000 Level Course in Mathematics not in the minor.

3

3

3

3

3

3

Media Studies

One additional 4000 level course not used in the minor

Music

Select one of the following:

M H L T 4000 Directed Studies

(p. 175)

THRY COM 4 Directed Studies: Variable Topic

(p. 175)

PDGOGY 400 Directed Study: Variable Topic

(p. 175)

PRACTM 400 Directed Studies: Variable Topic

(p. 175)

Philosophy

Physics PHYSICS 4381 Directed Readings In Physics

One additional 4000 leve course not used in the minor

Political Science

POL SCI 3950 Senior Seminar In Political Science (p. 175)

Psychology

(p. 175)

One additional 4000 level Psychology course not used in the minor

Sociology

One additional 4000 level course in Sociology not used in the minor, excluding:

SOC 4350 (p. Special Study

175)

or SOC 4385 Internship In Sociology

(p. 175)

- Student must identify themselves as using the additional 4000 level course as a Capstone so additional requirements can be assigned.
- Must be admitted to Honors program.

Bachelor of Interdisciplinary Studies (BIS)

The Bachelor of Interdisciplinary Studies degree (B.I.S.) provides a flexible, individualized program of study for the self-directed learner. It is developed by each student with advisement by UMSL professional advisers and faculty, and it is intended for students who have unique educational goals that cannot be met by any other UMSL degree program.

Oversight of the B.I.S. degree is the responsibility of the Interdisciplinary Studies Committee, composed of faculty and professional staff, including representatives from Arts and Sciences (Humanities, Social Sciences, and Natural Sciences), Business, Education, Fine Arts and Communication, Nursing or other divisions. The Interdisciplinary Studies Committee will be convened and supported by the Office of the Provost.

Admission Requirements for the B.I.S. Program

Candidates for the B.I.S. degree must complete an application for admission to the program. The Interdisciplinary Studies Committee approves applications.

Approved programs of study are well-designed, coherent, structured to meet the student's unique educational goals, and not readily available under any other UMSL degree program.

Students must have demonstrated the equivalent of academic proficiency required for any other undergraduate degree at UMSL.

Degree Requirements for the B.I.S. Program General Education Requirements

Students must complete the university's general education requirements. For details refer to the general education requirements (https://nextbulletin.umsl.edu/generalregulations/undergraduatestudy/#generaleducationrequirementstext) section of this Bulletin.

Area of Study

In consultation with faculty and staff advisers, students will carry out an area of study of at least 36 advanced semester hours of graded credit that meets their educational goals. Graded credit consists of degree credit courses in which the student received a letter grade of A, A-, B+, B, B-, C+, C, C-. The area of study must include at least nine hours at the 3000-level or above; these courses may be in one or more disciplines.

Hour and Grade Requirements

The degree requires completion of 120 semester hours with a 2.0 campus grade point average overall and in the area of study. No more than 15 hours may be taken in one department. At least 45 hours must be earned in courses beyond the introductory level. A minimum of 24 hours of graded credit must be completed in residence at UMSL, of which 15 hours must be in the area of study and completed after admission to the B.I.S. program. Each candidate must be in residence for 24 of the last 30 hours of graded credit (exclusive of courses taken on a satisfactory/unsatisfactory basis).

Supervised Professional or Service Internship and Independent Research

Credit not exceeding 6 hours may be earned for department-approved professional internship, service internship, or independent research. The projects or activities must be formulated by the student and carried out under the supervision of a faculty member with the approval of the adviser. Students must submit a written report approved by the supervisor upon completion of the projects or activities.

Interdisciplinary Certificates Minor in Environmental Studies

This is an interdisciplinary program that integrates the natural and physical sciences with the social sciences and humanities to study current environmental problems resulting from human population growth, global climate change, overuse of natural resources, pollution and biodiversity loss. A minimum 18 hours are required, 9 of which must be in the natural and physical sciences, including the listed Honors College courses, and 9 must be from the social sciences and humanities. Environmental Politics must be completed as part of the total 18 hours. A total of 12 hours must be taken at or above the 2000 level, and one course at or above the 3000 level. At least 9 hours must be taken while in residence at UMSL. A minimum GPA of 2.0 is required.

Natural and Physical Sciences

Natural and Frigoreal Ociences			
Select three of the following:			
BIOL 1202 (p. 175)	Environmental Biology		
BIOL 1821 (p. 175)	Introductory Biology: Organisms And The Environment		
BIOL 2102 (p. 175)	General Ecology		
BIOL 3103 (p. 175)	Animal Behavior Laboratory		
BIOL 2501 (p. 175)	Biology Of Plants		
BIOL 3202 (p. 175)	Conservation Biology		
BIOL 3203 (p. 175)	Conservation Biology Laboratory		
BIOL 3302 (p. 175)	Introduction To Evolution		
BIOL 4102 (p. 175)	Behavioral Ecology		
BIOL 4192 (p. 175)	Applications of Geographic Information Systems		
BIOL 4222 (p. 175)	Tropical Ecology And Conservation		
BIOL 4245 (p. 175)	Field Biology		
BIOL 4270 (p. 175)	Global Climate Change		
BIOL 4402 (p. 175)	Ornithology		
BIOL 4422 (p. 175)	Entomology		
BIOL 4501 (p.	Flowering Plant Families: Phylogeny And		

Diversification

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GEOL 1002 (p. 175)	Historical Geology	
HONORS 2050 (p. 175)	Inquiries In The Natural Sciences (when topic appropriate)	
HONORS 2051 (p. 175)	Inquiries in the Sciences: Laboratory or Field Work (when topic appropriate)	
Social Sciences	and Humanities	
Select three of the	e following:	9
ANTHRO 1005 (p. 175)	Introduction To Biological Anthropology	
ANTHRO 3270 (p. 175)	Human Ecology, Cultural Collapse, and Sustainable Developments	
ECON 4160 (p. 175)	Geospatial Analysis In The Social Sciences	
ECON 4170 (p. 175)	Fundamentals Of Cost-Benefit Analysis	
ECON 4550 (p. 175)	Natural Resource Economics	
INTL BUS 428 ² (p. 175)	Entrepreneurship in the Global Environment	
PHIL 2255 (p. 175)	Environmental Ethics	
POL SCI 3480 (p. 175)	Environmental Politics	
POL SCI 3595 (p. 175)	Studies In Comparative Politics (when topic appropriate)	
POL SCI 3850 (p. 175)	International Organizations And Global Problem- Solving (when topic appropriate)	
POL SCI 3900 (p. 175)	Special Readings (when topic appropriate)	
POL SCI 4460 (p. 175)	Urban Planning And Politics	
Total Hours		18

Evolutionary Studies Certificate

The undergraduate certificate program in evolutionary studies is designed to provide a unifying perspective on the diverse subject areas of a liberal arts education. Evolutionary biology provides a link between the sciences, the social sciences, and the humanities. The core of the program is BIOL 1999 (p. 175), "Evolution for Everyone," a course on evolution for students who are not majors in biology. (Biology majors who participate in the EvoS program must take BIOL 3302 (p. 175) instead.) In this course, students are introduced to the history of evolutionary thinking, the basic mechanisms of evolution, and the evolution of complex behaviors. In addition to this one required course, to obtain a certificate students must fulfill twenty credits from the list of courses designated below.

No more than eight hours can be taken at the freshman level, and at least eight hours must be taken at the junior-senior level (3000 level or above).

Courses taken for the certificate in the lower division can satisfy general education requirements (that is, breadth requirements). Courses in the upper division can satisfy requirements for the student's major.

Courses in the Physical and Life Sciences

Physics and Astr	ronomy	
ASTRON 1011	Planets And Life In The Universe	3
(p. 175)		

Biology		
BIOL 1202 (p. 175)	Environmental Biology	3
BIOL 1821 (p. 175)	Introductory Biology: Organisms And The Environment	5
BIOL 1999 (p. 175)	Evolution for Everyone (Required Core Course) ¹	3
BIOL 2102 (p. 175)	General Ecology	3
BIOL 2012 (p. 175)	Genetics	3
BIOL 2402 (p. 175)	Vertebrate Anatomy, Evolution and Ecology	3
BIOL 2501 (p. 175)	Biology Of Plants	5
BIOL 3102 (p. 175)	Animal Behavior	3
BIOL 3302 (p. 175)	Introduction To Evolution	3
BIOL 4102 (p. 175)	Behavioral Ecology	3
BIOL 4112 (p. 175)	Evolution Of Animal Sociality	3
BIOL 4182 (p. 175)	Population Biology	3
BIOL 4422 (p. 175)	Entomology	3
BIOL 4442 (p. 175)	Developmental Biology	3
BIOL 4501 (p. 175)	Flowering Plant Families: Phylogeny And Diversification	5
Courses in the S	ocial Sciences	
Anthropology		
ANTHRO 1005 (p. 175)	Introduction To Biological Anthropology	4
ANTHRO 2105 (p. 175)	Human Variation	3
Psychology		
PSYCH 1003 (p. 175)	General Psychology	3
PSYCH 2200 (p. 175)	Drugs And Behavior	3
PSYCH 2205 (p. 175)	Human Sexuality: Psychological Perspectives	3
PSYCH 2211 (p. 175)	Introduction To Biological Psychology	3
PSYCH 3205 (p. 175)	Evolutionary Psychology	3
PSYCH 3390 (p. 175)	Directed Studies	1-6
PSYCH 3500 (p. 175)	Health Psychology	3
PSYCH 4300 (p. 175)	Introduction To Psychopharmacology: Drugs And Mental Illness	3
PSYCH 4311 (p. 175)	Psychology Of Nonverbal Behavior	3

PSYCH 4330 (p. 175)	Hormones, The Brain And Behavior	3			
PSYCH 4349 (p. 175)	Human Learning And Memory	3			
PSYCH 4356 (p. 175)	Cognitive Processes	3			
PSYCH 3400 (p. 175)	Conceptual and Historical Foundations of Psychology	3			
PSYCH 4374 (p. 175)	Introduction To Clinical Neuropsychology	3			
Courses in the Humanities					
English					
ENGL 4030 (p. 175)	Contemporary Critical Theory	3			
ENGL 4080 (p. 175)	Narrative, Cognition, And Emotion	3			
Philosophy					
PHIL 2280 (p. 175)	Minds, Brains, And Machines	3			
PHIL 2281 (p. 175)	Darwinism and the Philosophy of Biology	3			
Honors College Courses					

Biology majors who participate in the EvoS program must take BIOL 3302 (p. 175) instead.

Honors College Courses

See Honors College Courses below

The Honors College will offer seminars as part of the Evolutionary Studies certificate or minor, and they will be identified as such before the opening of registration periods. EvoS seminars in honors will be open to non-Honors College students with at least a 3.0 GPA (students must obtain permission numbers from the Honors College). Please note that all honors college course numbers (e.g.) relate to generic course titles (e.g. "Inquiries in the Humanities"), and so it is very important to register for the section number with the proper Evolutionary Studies seminar title. Where these honors college courses are cross-listed (e.g. with English xxxxx or Philosophy yyyy), non-honors college students should take them under their departmental number.

History and Philosophy of Science and Technology Certificate

The undergraduate Certificate Program in History and Philosophy of Science and Technology (HPST) is an interdisciplinary program requiring a minimum of 18 credits in HPST.

All required courses must be completed with a "C-" or higher. The satisfactory/unsatisfactory option may not be used towards the HPST Certificate. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division (3000 level and above) may satisfy requirements for the student's major, consistently with the major's requirements.

Requirements

1. History:

Select two of the following courses in History and Technology:

ECON 3800 History Of Economic Thought (p. 175)

HIST 2089 (p. 175)	Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West	
HIST 2770 (p. 175)	Introduction To Transportation	
HIST 2772 (p. 175)	History Of Aviation In American Life	
HIST 2773 (p. 175)	Urbanization And Transportation	
HIST 4143 (p. 175)	Inquiries in World History ¹	
PHIL 4483 (p. 175)	Topics In History And Philosophy Of Science	
PSYCH 3400 (p. 175)	Conceptual and Historical Foundations of Psychology	
Total Hours		6
Philosophy:		
	Philosophy Of Science	3
175)		
Select one of the	following in the philosophy of science:	3
PHIL 2280 (p. 175)	Minds, Brains, And Machines	
PHIL 2281 (p. 175)	Darwinism and the Philosophy of Biology	
PHIL 2282 (p. 175)	Philosophy of Science in Historical Perspecitve	
PHIL 3380 (p. 175)	Philosophy Of Science	
PHIL 4452 (p. 175)	Feminism And Science	
PHIL 4479 (p. 175)	Philosophy Of Cognitive Science	
PHIL 4480 (p. 175)	Topics In Philosophy Of Science	
PHIL 4482 (p. 175)	Philosophy Of Social Science	
PHIL 4483 (p. 175)	Topics In History And Philosophy Of Science	
., ,	Conceptual and Historical Foundations of Psychology	

- 3. Science: Two courses in the mathematical, physical, life, behavioral, or social sciences. The science courses must be in addition to those satisfying the Gen Ed requirements (for students pursuing a degree at UM St. Louis) and conditional upon their acceptance by the HPST Certificate Undergraduate advisor (6 credit hours).
- Note: HIST 4143 (p. 175) is offered under different topics; only the specific topic listed here counts as HPST.

Prerequisites

Total Hours

2.

Some courses required by the Certificate Program in HPST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for

either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

Alternative courses to satisfy the History and Philosophy requirements:

Some courses may satisfy either the History or the Philosophy requirement even though they are not listed as such, depending on what their content is. These include but are not listed among those satisfying the requirements, you may do the following:

- · Obtain the description of what the course will cover.
- Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of HPST.

Submit both to the HPST undergraduate advisor for approval.

Labor Studies Certificate

The Labor Studies Certificate is designed for students who are interested in a focused specialty in labor studies. The 18 credit hour curriculum consists of six credit courses offered over a three-semester period.

HIST 2219 (p. 175)	United States Labor History	3
ECON 3450 (p. 175)	Labor in the Global Political Economy	3
POL SCI 1450 (p. 175)	Introduction To Labor Studies	3
POL SCI 3220 (p. 175)	Labor Law	3
POL SCI 3430 (p. 175)	Union Leadership And Administration	3
Total Hours		15

Certificate in Neuroscience

The undergraduate Certificate Program in Neuroscience is an interdisciplinary program requiring 20 credits of training in Neuroscience. The Program provides a group of related courses capped by a research experience. The Program is likely to be of particular interest to students who want to pursue graduate or professional training, but it is intended to appeal to any student interested in Neuroscience.

Courses taken for the certificate in the lower division (1000 and 2000 level) may satisfy general education requirements (that is, breadth requirements), if they are approved general education courses. Courses in the upper division (3000 level and above) may satisfy requirements for the student's major, consistently with the major's requirements. All required courses must be completed with a "B-"average or higher. Pass/Fail grades to not count.

Most courses required by the Certificate Program in Neuroscience have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites.

Requirements

The two entry level courses:

BIOL 1831 (p.	Introductory Biology: From Molecules To	5
175)	Organisms	
PSYCH 2211 (p.	Introduction To Biological Psychology	3
175)		

Total Hours

Se	elect one of the f	following statistics courses:	3
	BIOL 4122 (p. 175)	Biometry	
	MATH 1320 (p. 175)	Applied Statistics I	
	PSYCH 2201 (p. 175)	Psychological Statistics	
	SOC 3220 (p. 175)	Social Statistics	
Εl	ectives		
Se	elect two of the fo	ollowing: 1	6
	BIOL 3102 (p. 175)	Animal Behavior	
	BIOL 4822 (p. 175)	Introduction To Neuroscience	
	CHEM 4712 (p. 175)	Biochemistry	
	CMP SCI 4300 (p. 175)	Introduction To Artificial Intelligence	
	CMP SCI 4340 (p. 175)	Introduction to Machine Learning	
	PHIL 2280 (p. 175)	Minds, Brains, And Machines	
	PHIL 3378 (p. 175)	Philosophy of Mind	
	PHIL 4478 (p. 175)	Topics In Philosophy Of Mind	
	PHIL 4479 (p. 175)	Philosophy Of Cognitive Science	
	PHYSICS 4347 (p. 175)	Biophysics Of Imaging	
	PSYCH 4300 (p. 175)	Introduction To Psychopharmacology: Drugs And Mental Illness	
	PSYCH 4314 (p. 175)	Behavioral Neuroscience	
	PSYCH 4330 (p. 175)	Hormones, The Brain And Behavior	
	PSYCH 4349 (p. 175)	Human Learning And Memory	
Se	elect at least 3 ci	redits from two semesters of research experience 2	3
	BIOL 4905 (p. 175)		
	CHEM 3905 (p. 175)	Chemical Research	
	CMP SCI 4880 (p. 175)	Individual Studies	
	PHIL 4450 (p. 175)	Special Readings In Philosophy	
	PHYSICS 3390 (p. 175)	Research	
	PSYCH 3390 (p. 175)	Directed Studies	
_			_

20

- ¹ At least one elective must be taken outside the student's major
- This requires completion of a Directed Research Assistantship with a Neuroscience faculty member within any of the participating departments. The research project must be approved in advance by the undergraduate advisor with the assistance of a committee of Neuroscience faculty. It is expected that this research will lead to a presentation at the UM-St. Louis Neuroscience seminar and the Undergraduate Research Symposium.

Studies in Religions Certificate

A certificate in studies in religions requires the completion of 18 hours with a grade of C or better.

Courses must be chosen from two or more departments (interdisciplinary offerings excluded), and the program must include two or more courses that focus on different major religious traditions. (Courses that fulfill this requirement are marked with an asterisk [*] in the list below.)

In addition, students are encouraged to broaden their understanding of religions and religious experience by enrolling in several courses in which these subjects are studied in philosophical or cultural contexts.

Students must obtain the approval of the coordinator of studies in religions before completing 12 hours toward this certificate.

Requirements

Select 6 of the following list in accordance with the guidelines above:

Anthropology

ANTHRO 2173 Archaeology And Cultures Of The Biblical World (p. 175)

Art

ART HS 2225 Medieval Art (p. 175)

English

ENGL 2240 (p. Literature Of The Old Testament ¹ 175)

ENGL 2250 (p. Literature Of The New Testament ¹ 175)

ENGL 4950 (p. Special Topics In Literature ¹ 175)

Philosophy

PHIL 1120 (p. Asian Philosophy

175)

PHIL 1185 (p. Philosophy Of Religion

175)

PHIL 3302 (p. Medieval Philosophy

175)

Political Science

POL SCI 2610 Ancient And Medieval Political Thought (p. 175)

POL SCI 2650 American Political Thought (p. 175)

Total Hours 18

Note: ENGL 4950 (p. 175) should only be taken when Religious Literature is the topic.

Trauma Studies Certificate

The trauma studies certificate is designed for students who are interested in a focused specialty in trauma studies or victim services in addition to their own major. It is appropriate for students in the College of Arts and Sciences or any of the schools of the university. It is particularly appropriate for students wishing to pursue careers in psychology, social work, sociology, criminology, law, public health, or nursing.

Requirements

A student may earn a trauma studies certificate by completing 18 hours with a GPA of 2.0 or better from at least three departments from the following courses:

Select at least three of the following:

12

Criminology and Criminal Justice

CRIMIN 1120 Criminal Law

(p. 175)

CRIMIN 4300 Communities And Crime

(p. 175)

CRIMIN 4350 Victimology

(p. 175)

Psychology

PSYCH 2232 Psychology Of Trauma

(p. 175)

18

PSYCH 3390 Directed Studies (for three credits only toward

(p. 175) certificate) ¹

Social Work

SOC WK 3100 Introduction To Strategies for Social Work Practice

(p. 175)

SOC WK 4601 Abused And Neglected Children

(p. 175)

SOC WK 4602 Child Welfare Practicum Seminar

(p. 175)

Sociology

SOC 3250 (p. Sociology Of Victimization

175)

Select up to two of the following:

6

Criminology and Criminal Justice

CRIMIN 3230 Crime Prevention

(p. 175)

CRIMIN 2240 Policing

(p. 175)

CRIMIN/ Race, Crime, And Justice

SOC 4340 (p.

175)

Political Science

POL SCI 2400 Public Administration

(p. 175)

POL SCI 2420 Introduction To Public Policy

(p. 175)

Psychology

PSYCH/ Social Psychology

SOC 2160 (p.

175)

PSYCH 2230 Psychology Of Gender

(p. 175)

PSYCH 2245 (p. 175)	Abnormal Psychology
Social Work	
SOC WK 4630 (p. 175)	Gender Issues in Social Work
Sociology	
SOC 2102 (p. 175)	Introduction To Gender Studies
SOC/PSYCH 2160 (p. 175)	Social Psychology
SOC 3268 (p. 175)	The Sociology Of Conflict
SOC/CRIMIN 4340 (p. 175)	Race, Crime, And Justice

Total Hours 18

Please seek approval of the Coordinator of the Trauma Studies Certificate in advance.

Special Topics courses relevant to trauma studies may be included in the certificate when approved in advance by the coordinator of the trauma studies certificate.

Interdisciplinary Minors Minor in American Studies

American Studies is an internationally recognized academic field that involves an interdisciplinary approach to the study of the culture(s) of the United States, its colonial antecedents, and its indigenous peoples.

Students interested in this minor should contact the coordinator of American Studies for advice and information.

Candidates must have a cumulative grade point average of 2.0 or better in the 18 credit hours required for the minor. Three hours of the minor may be taken on a satisfactory/unsatisfactory basis. Candidates wishing to take American Studies courses from the Honors College (see below) must be members of the Honors College or must have a 3.0 cumulative grade point average.

Requirements for the Minor

Completion of the American Studies minor requires at least 18 semester credit hours, including at least two courses (six hours) from Section A and at least two courses (six hours) from Section B. The other six hours may be chosen from Section A, B, and/or C. Please read the special requirements below.

 Core courses in American Studies (all courses are three credits except where otherwise indicated).

At least two of the following core courses are required to qualify for the minor. Of this minimal requirement, one course must be chosen from either American Studies or English and the other from either History or Political Science. Students may take up to two additional courses from this group, and these may be chosen from any department or discipline.

Select at least two of the following:

Anthropology

ANTHRO 2120 Native Peoples Of North America (p. 175)

Art and Art History

ART HS 1104 Indigenous Arts Of North America

(p. 175)

ART HS 2270 American Art To 1876

(p. 175

ART HS 2279 American Architecture

(p. 175)

English

ENGL 1170 American Literary Masterpieces

(p. 175)

ENGL 1710 Native American Literature

(p. 175)

ENGL 2710 American Literature Before 1865

(p. 175)

ENGL 2720 American Literature After 1865

(p. 175)

History

HIST 1001 American Civilization To 1865

(p. 175)

HIST 1002 American Civilization 1865 To Present

(p. 175)

HIST 1003 African-American History

(p. 175)

HIST 1004 The History Of Women In The United States

(p. 175)

Honors 1

HONORS 1236 merican Traditions: Social And Behavioral

(p. 175) Sciences

HONORS 131Non-Western Traditions Series Humanities

(p. 175)

HONORS 133**0**Ion-Western Traditions Series-Social Sciences (p. 175)

Music

M H L T 1060 Introduction To African-American Music

(p. 175)

MHLT1070 Introduction To Jazz

(p. 175)

Philosophy

PHIL 3307 American Philosophy

(p. 175)

Political Science

POL SCI 1100 Introduction To American Politics

(p. 175

POL SCI 2300State Politics

(p. 175)

POL SCI 235(Introduction To Urban Politics

(p. 175)

POL SCI 2650American Political Thought

(p. 175)

POL SCI 2900 Studies In Political Science (when appropriate)

(p. 175)

Total Hours 6

2. Optional courses in American Studies (all courses are 3 credits except where otherwise indicated). To complete the American Studies minor, students must choose at least two courses from this group, from any department or discipline, and may choose up to four courses in this group. Courses chosen from this group must be chosen from at least two departments. Select at least two of the following: 6 Anthropology ANTHRO 329 Current Issues In Anthropology (when appropriate) (p. 175) **Art and Art History** ART HS 3360 Photography And Society (p. 175) ART HS 4475 Topics In American Art (p. 175) ART HS 4481 Topics In Contemporary Art (when appropriate) (p. 175) Communication COMM 1050 Introduction To Mass Communication (p. 175) COMM 2243 Communication In American Politics (p. 175) COMM 3352 Mass Media in Society (p. 175) **Economics** ECON/HIST History Of American Economic Development 2800 (p. 175) **English** ENGL 3800 Topics In Women And Literature (when (p. 175) appropriate) ENGL 4610 Selected Major American Writers I (p. 175) ENGL 4620 Selected Major American Writers II (p. 175) American Fiction To World War I ENGL 4640 (p. 175) ENGL 4650 Modern American Fiction (p. 175) ENGL/GS Studies In Gender And Literature (when 4930 (p. appropriate) 175) ENGL 4950 Special Topics In Literature (when appropriate) (p. 175) History HIST 2012 The Indian In American History (p. 175) HIST 2016 African-American History: From Slavery to Civil (p. 175) HIST 2017 African-American History: From Civil Rights To Black Power (p. 175) HIST/CRIMIN History Of Crime And Justice 3043 (p. 175)

United States Labor History

HIST 2219

(p. 175)

HIST/ECON History Of American Economic Development 2800 (p. 175) HIST 3000 Selected Topics In History (when appropriate) (p. 175) HIST/GS 3031 HIST 4999 Senior Seminar (5 credits: when appropriate) (p. 175) SEC ED 4013 United States History For The Secondary (p. 175) Classroom Honors College 2 HONORS 201 Inquiries In The Humanities (p. 175) HONORS 2020 Inquiries In The Fine And Performing Arts (p. 175) HONORS 203 Inquiries In The Social And Behavioral (p. 175) Sciences HONORS 2070 Inquiries In Education (p. 175) HONORS 301 Advanced Honors Seminar In The Humanities (p. 175) HONORS 302@dvanced Honors Seminar In The Fine And (p. 175) Performing Arts HONORS 303 Advanced Honors Seminar In The Social And (p. 175) **Behavioral Sciences** HONORS 307 Advanced Honors Seminar In Education HONORS 353Research Seminar In The Social And **Behavioral Sciences** (p. 175) **Philosophy** PHIL 4410 Topics and Figures in the History of Philosophy (when appropriate) (p. 175) **Political Science** POL SCI 228C Judicial Politics And Policy (p. 175) POL SCI 2320African Americans And The Political System (p. 175) POL SCI/ The Politics of Gender in the United States GS 2380 (p. 175) POL SCI 3200Constitutional Law (p. 175) POL SCI 321(Civil Liberties (p. 175) POL SCI 3300The American Presidency (p. 175) POL SCI 3331Congressional Politics (p. 175) POL SCI 3340Politics And The Media (p. 175) POL SCI 335(Political Parties And Elections POL SCI 3390Studies In American Politics (when appropriate)

(p. 175)

Sociology

SOC 1040 (p. Social Problems
175)

SOC 2316 (p. Power, Ideology And Social Movements
175)

SOC 3268 (p. The Sociology Of Conflict
175)

SOC/GS Sociology Of Minority Groups
4360 (p.
175)

SOC 4380 (p. Advanced Topics in Sociology (when
175) appropriate)

American Studies elective courses (courses are three credit hours unless otherwise indicated).

Up to two courses from this group may be used for the American Studies minor. When two courses are chosen form this group, they must be chosen from different departments.

Select up to two of the following:

Anthropology

ANTHRO 2126Archaeology Of Greater St Louis (p. 175)

ANTHRO 213 Archaeology Of Missouri

(p. 175)

ANTHRO 2132Archaeology Of North America

(p. 175)

Art and Art History

ART HS 2281 Art Since 1960

(p. 175)

Communication

COMM 3332 Intercultural Communication

(p. 175)

Criminology and Criminal Justice

CRIMIN 2240 Policing

(p. 175)

CRIMIN/ Race, Crime, And Justice

SOC 4340 (p.

175)

English

ENGL 4060 Adolescent Literature

(p. 175)

ENGL 4740 Poetry Since World War II

(p. 175)

ENGL 4760

0 Modern Drama

(p. 175)

ENGL 4770 Modern Poetry

(p. 175)

History

HIST 2001 Creating Early America: European Empires, (p. 175) Colonial Cultures, and Native Nations,

1565-1776

HIST 2003 United States History: From Nation to Civil War

(p. 175)

HIST 2004 United States History: The Civil War Era,

(p. 175) 1860-1900

HIST 2005 The Modernization Of The United States

(p. 175)

HIST 2006 Recent United States History (p. 175)

HIST 2024 US Foreign Relations and Military History Since

(p. 175) 1900

HIST 3041 Topics In American Constitutional History

(p. 175)

HIST 3031

Media Studies

MEDIA ST 33!Media Law And Regulation

(p. 175)

Political Science

POL SCI 2290Gender And The Law

(p. 175)

POL SCI 2420Introduction To Public Policy

(p. 175)

POL SCI 282(United States Foreign Policy

(p. 175)

POL SCI 3330Introduction To Political Behavior

(p. 175)

POL SCI 3460The Politics Of Poverty And Welfare

(p. 175)

Social Work

SOC WK 220(Social Welfare As A Social Institution

(p. 175)

SOC WK 3210Social Issues And Social Policy Development

(p. 175)

Sociology

SOC 1040 (p. Social Problems

175)

SOC 2180 (p. Alcohol, Drugs And Society

175)

SOC 2202 (p. Urban Sociology

175)

- Admission to these Honors Seminars requires consent of the dean of the Honors College: note that depending on instructor and content, HONORS 1210 can fulfill the requirements from this group in literature/American Studies and HONORS 1230 (p. 175) can fulfill the History/Political Science requirement. HONORS 1310 (p. 175)-HONORS 1330 (p. 175) can qualify as additional Group A choices when their focus is on Native American traditions. Please note that HONORS 1210 will not be offered in 2013-2014. Please contact the department for more information.
- When topics are appropriate, any of the seminars below can qualify as an "option" course for the American Studies minor. Admission to these courses requires the consent of the dean of the Honors College.

In addition, courses with variable topics such as Topics in..., Studies in..., and seminars may be taken when the topics are appropriate. When in doubt, see the coordinator of American Studies; such courses must be approved for inclusion in your American Studies minor before the semester registration deadline.

Minor in Classical Studies

The minor in Classical Studies is an interdisciplinary course of studies intended to encourage undergraduates in various disciplines to come to a fuller awareness of the cultures of ancient Greece and Rome and of the classical tradition that underlies much of modern Western civilization. In

18

addition to appealing to any student's curiosity about the early stages of society in the West, the minor provides an especially valuable supplement to those who are majoring in many liberal arts areas including history, literature, philosophy, foreign languages, and art.

Students pursuing the minor will acquire a foundation in either Greek or Latin. They may choose to use either sequence to fulfill the foreign language requirement in the College of Arts and Sciences.

Requirements

Candidates for the minor must complete 19 credit hours of course work including:

```
LATIN 1001 (p.
                Latin I
                                                                   10
                   and Latin II
175)
& LATIN 1002
(p. 175)
or GRK ANC 1001 Ancient Greek I
                   and Ancient Greek II
(p. 175)
& GRK ANC 1002
(p. 175)
Select three of the following:
  ART HS 2211 Art And Archaeology Of The Ancient World
  (p. 175)
  ART HS 2212 Greek Art And Archaeology
  (p. 175)
  ART HS 2213 Roman Art & Archaeology
  (p. 175)
  ART HS 4411 Topics In Ancient Art And Archaeology
  (p. 175)
GRK ANC 2101 Intermediate Ancient Greek Language And Culture
(p. 175)
  HIST 2081 (p. Rome: The Republic And Empire
  175)
  LATIN 2101
                 Intermediate Latin Language And Culture
  (p. 175)
  PHIL 3301 (p. Ancient Philosophy
  175)
  PHIL 4401 (p. Plato
  175)
  PHIL 4402 (p. Aristotle
  Any other course approved by the coordinator
Total Hours
                                                                   22
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Minor in Legal Studies

The minor in Legal Studies is open to all undergraduate students at UMSL, whatever their major field. It offers a secondary field of concentration in one of the most important areas of social life. Students may use the minor as a complement to their major, as an additional qualification for career opportunities, or as general education.

This interdisciplinary minor coordinates liberal arts courses related to law. A faculty member in Legal Studies will advise students and will work with their major advisers in planning appropriate courses.

Candidates must take:

POL SCI/CRIMIN 1200 (p. 175)	Foundations Of Law: An Introduction To Legal Studies	3
Select five of the f		15
	Introduction to Personal Law	
BUS AD 2900 (p. 175)	Legal Environment Of Business	
BUS AD 3900 (p. 175)	Business Law: Contracts, Sales, Secured Transactions, Bankruptcy	
BUS AD 3901 (p. 175)	Business Law:Negotiable Instruments, Business Organ., Property	
INTL BUS 3280 (p. 175)	OThe Law Of International Business Transactions	
CRIMIN 1100 (p. 175)	Introduction To Criminology And Criminal Justice	
CRIMIN 1120 (p. 175)	Criminal Law	
CRIMIN 2130 (p. 175)	Criminal Justice Policy	
CRIMIN 2250 (p. 175)	Courts	
CRIMIN 3345 (p. 175)	Rights Of The Offender	
CRIMIN 4300 (p. 175)	Communities And Crime	
ECON 3650 (p. 175)	Law And Economics	
HIST 3041 (p. 175)	Topics In American Constitutional History	
HIST 2085 (p. 175)	Medieval England: From Arthur to Richard III	
MEDIA ST 335 (p. 175)	5Media Law And Regulation	
PHIL 4487 (p. 175)	Topics In Philosophy Of Law	
POL SCI 2260 (p. 175)	Law, Politics and Society	
POL SCI 2280 (p. 175)	Judicial Politics And Policy	
POL SCI 2290 (p. 175)	Gender And The Law	
POL SCI 3200 (p. 175)	Constitutional Law	
POL SCI 3210 (p. 175)	Civil Liberties	
POL SCI 3260 (p. 175)	The Supreme Court	
POL SCI 4850 (p. 175)	International Law	

At least three courses must be taken at the 3000 level and above. No more than two courses from a single discipline may be included in the

Total Hours

minor.

Minor in Public Affairs Journalism

Requirements

1. Nine hours in communication/English professional training:

ENGL 3140 (p. News Writing

175)

or MEDIA ST 321Mews Writing

(p. 175)

ENGL 3180 (p. Reporting

175

or MEDIA ST 22' Broadcast Writing And Reporting

(p. 175)

Select one of the following:

ENGL 4890 Writing Internship

(p. 175)

MEDIA ST 3394 ternship In Journalism

(p. 175)

MEDIA ST 33!Internship In Radio

(p. 175)

 ${\sf MEDIA\ ST\ 33977} ternship\ In\ Television/Film$

(p. 175)
Total Hours

2. Nine hours in public affairs at the 3000 level or above

- a. a. Students earning a writing certificate or majoring in communication with a mass communication emphasis must take 15 hours (at least 9 of these at the 3000 level or above) in economics, political science, or sociology.
- b. Students majoring in economics, political science, or sociology must take nine hours (in addition to the required English/communication courses) at the 3000 level or above in addition to English/communication courses chosen from those listed above and/or in the two cognate areas outside their major (i.e., economics, political science, or sociology).

A list of courses applicable to the minor is available from the coordinator.

Minor in Urban Studies

A minor in urban studies includes 18 hours of course work. Candidates must have a cumulative grade point average of 2.0 or better in the minor. Courses taken on a satisfactory/ unsatisfactory basis may not be applied to the minor. Special topics courses relevant to urban studies may be included in the minor when approved in advance by the coordinator of the urban studies minor.

Requirements

Students must take:

Select six of the following 1

ART HS 2279 American Architecture

(p. 175)

ART HS 3365 The Artist And The City

(p. 175)

CRIMIN 3230 Crime Prevention

(p. 175)

CRIMIN 4300 Communities And Crime

(p. 175)

ECON 4700 (p. 175)	Urban Areas and Real Estate Markets	
HIST 3000 (p. 175)	Selected Topics In History	
POL SCI 2350 (p. 175)	Introduction To Urban Politics	
POL SCI 3450 (p. 175)	Urban Administration	
PSYCH 3256 (p. 175)	Environmental Psychology	
SOC 1040 (p. 175)	Social Problems	
SOC 2202 (p. 175)	Urban Sociology	
SOC 3344 (p. 175)	Problems Of Urban Community	
Total Hours		18

At least three courses at the 3000 level or above. No more than two courses from a single discipline may be incuded in the minor.

Courses

3

3

6

INTDSC 1000 Special Topics: 3 semester hours

Topics may vary from semester to semester, however, they will all focus in the cultural heritage of Great Britain with material taken from art, theater, literature, and selected topics in philosophy.

INTDSC 1003 University Studies: 1 semester hour

This course, required of all new freshmen in the College of Arts and Science and the College of Fine Arts and Communication, is designed to assist students in making the transition to the university experience and to UMSL by giving students the knowledge and tools needed to succeed as a scholar. The course will also familiarize students with the relationship between their education and their career and personal goals, and will assist in developing positive connections with faculty, staff, and peers at UMSL. Students will learn about faculty expectations, support services, and student life, as well as academic disciplines. The course counts toward the 120 credit hours needed for graduation.

INTDSC 1010 Information Research & Success: 1 semester hour Students will gain knowledge and develop critical thinking skills to succeed

academically by learning to frame meaningful questions; developing an understanding of the structure and content of library and electronic information resources; evaluating information; and using library and information resources as learning tools.

INTDSC 1030 Language and Communicative Arts Across the Disciplines: 3 semester hours

Prerequisites: None. This course is designed to advance the academic skills of university-level students. This course consists of listening to academic lectures across the disciplines; reading texts and articles to supplement lectures; writing summaries, essays and responses to exam questions; understanding and editing grammar and sentence structure; phonetics and word stress patterns; presentation skills; and advancing skills in note-taking, critical thinking, and comprehension of advanced college-level vocabulary of various fields of study.

INTDSC 1220 Special Topics In Gerontology: 3 semester hours

Same as Gerontology 1220 Selected topics dealing with various aspects of gerontology. The specific content of this course will vary from semester to semester. The course may be repeated with permission from the Gerontology Director.

INTDSC 1999 Big History: From the Big Bang to the Blackberry: 3-6 semester hours

SAME AS HIST1999. An introduction to the humanities, social science, and science disciplines through a sweeping overview of natural and human history from the Big Bang to the present. Course will include lectures from faculty in various Arts and Sciences units, films, field trips, and group discussions.

INTDSC 2011 Special Topics: 1-3 semester hours

This interdisciplinary course provides an introduction and review of knowledge needed in preparation for standardized tests required for admission to post-baccalaureate professional schools. Topics may vary (e.g. MCAT and LSAT) and may be taken more than once for credit provided topic changes.

Mathematics and Computer Science

General Information

Degrees and Areas of Concentration

The Department of Mathematics and Computer Science offers work leading to the Bachelor of Arts (B.A.) in mathematics, the Bachelor of Science (B.S.) in mathematics, the B.S. in computer science, and, in cooperation with the College of Education, the Bachelor of Secondary Education (B.S.Ed.) in secondary education with an emphasis in mathematics. The department also offers minors in computer science, mathematics, and statistics, as well as a Certificate in Actuarial Studies.

At the graduate level, the department offers a Master of Arts (M.A.) degree in mathematics, a Master of Science (M.S.) degree in computer science and a Doctor of Philosophy (Ph.D.) in applied mathematics – with options in mathematics and computer science.

The program leading to the B.A. in mathematics provides a broad grounding in different areas of mathematics, giving students the depth necessary to pursue various aims such as graduate studies or other career choices.

The B.S. in mathematics provides a substantial background in mathematics, statistics and computer science to produce graduates who can work as mathematicians. Both the B.A. and the B.S. in mathematics allow optional courses that enable the student to focus on areas of interest like pure or applied mathematics. Students pursuing the B.A. or the B.S. in mathematics will graduate with analytic and writing skills in mathematics and will have knowledge of content in core areas of the subject. They will have been exposed to applications of mathematics and they will possess critical thinking and quantitative skills.

The B.S.Ed. in secondary education with an emphasis in mathematics introduces students to those branches of mathematics most relevant to the teaching of secondary school mathematics.

The B.S. in computer science curriculum provides a firm foundation for both more traditional computer science as well as for the technical aspects of the emerging information technology areas This is accomplished through fundamental courses in mathematics and statistics, a rigorous

list of core computer science courses, as well as by emphasizing written and oral communication skills, problem solving, and exposure to modern technology. In addition, the program offers a variety of interest specific electives such as graphics, image processing, AI, database systems, networking, security, object-oriented and web-based technology. Given the ever-widening impact of digital technology on daily life, it appears that Computer Science graduates will enjoy significant employment opportunities.

The Certificate in Actuarial Studies is designed to provide the education needed for entry level employment in the actuarial profession.

Students pursuing the M.A. degree in mathematics may choose an emphasis in either pure or applied mathematics. The pure mathematics emphasis is well suited for students preparing to teach at the high school, junior college, or four year liberal arts college level. Those who concentrate on applied courses in the M.A. program build a foundation for the application of mathematics in industry and the continuation of their education in the Ph.D. program in applied mathematics. Our graduates will have abilities in the basic areas of algebra and analysis, and a breadth of knowledge in core subjects at the graduate level. They will study at least one area of mathematics or statistics in depth and will understand some of the contemporary research in applied mathematics and statistics. They will develop the ability to prepare and deliver oral and written presentations and the ability to pursue mathematical knowledge independently.

The M.S. degree in computer science emphasizes practical aspects of the field. Our graduates will develop expertise in at least one modern programming language. They will possess a breadth of knowledge of core areas in computer science, and will develop depth of knowledge in one area of the subject. They will be prepared to independently learn and adapt new technology and they will develop the ability to read current research in some areas. They will have the capability to prepare and deliver oral and written presentations on topics in computer science.

The Ph.D. in applied mathematics has options in mathematics and computer science. The mathematics option prepares students for a leadership role involving research and development in both industrial and academic settings. Students choosing this option will develop abilities in the basic areas of algebra and analysis and will possess breadth of knowledge in core subjects at the graduate level. They will study at least one area of mathematics or statistics in depth and will understand contemporary research in applied mathematics and statistics. They will develop the ability to prepare and deliver oral and written presentations, and they will possess the ability to pursue and produce mathematical knowledge independently.

Students choosing the computer science option will develop a breadth of abilities in the core areas of computer science at the graduate level. They will gain a depth of ability in contemporary research in their chosen subfield of computer science, and will be able to pursue independent research in their area of specialization.

Students may enroll in any of these graduate programs on a part-time basis.

Career Outlook

A degree in mathematics or computer science prepares well-motivated students for interesting careers. Our graduates find positions in industry, government, and education. The demand for individuals well trained in statistics, computer science, and applied mathematics is greater than the available supply. In addition, a number of graduates in mathematics have

elected careers in business, law and other related fields where they find logical and analytical skills valuable.

Graduates in computer science and mathematics from UMSL are located throughout the country, and they also have a strong local presence. They have careers in banking, health care, engineering and manufacturing, law, finance, public service, management, and actuarial management. Many are working in areas such as systems management, information systems and data management, scientific computing, and scientific positions in the armed services. Others have careers in education, especially at secondary and higher levels.

Department Scholarships

The Department of Mathematics and Computer Science offers many scholarships available to department majors.

The Alumni Scholarship is a monetary award for outstanding undergraduate students open to all junior and senior department majors.

The Edward Z. Andalafte Memorial Scholarship is a monetary award for outstanding undergraduate department majors at the sophomore level or higher.

Applicants for each of these two scholarships must have a grade point average of 3.5 or higher in at least 24 hours of graded course work at the University of Missouri-St. Louis, and show superior achievement in courses taken in the department.

The Raymond and Thelma Balbes Scholarship in Mathematics is a monetary award for students at the sophomore level or higher who are pursuing a degree in mathematics, have an overall GPA of at least 3.0 and a GPA of at least 3.2 in mathematics and who have completed three semesters of calculus.

The Joseph M. and Mary A. Vogl Scholarship in Mathematics is a need based monetary award for mathematics majors.

The Computer Science Scholarship is a monetary award for outstanding computer science majors with preference given to freshman and sophomore students. Applicants must have a grade point average of 3.5 or higher in courses taken in the department.

The Boeing Company Scholars Program in Computer Science is a monetary award for full-time (at least 12 hours) upper-level undergraduate students in computer science. Recipients must have a minimum GPA of 3.2 and must maintain a GPA of 3.0. Preference will be given to traditionally underrepresented populations.

Application forms for these scholarships may be obtained from the Department of Mathematics and Computer Science.

The deadline for application for all of these scholarships is March 15, and the scholarships must be used for educational fees or for books at UMSL starting in the fall semester following the application.

Undergraduate Studies General Education Requirements

All majors must satisfy the university and appropriate school or college general education requirements (p. 28). All mathematics courses may be used to meet the university's general education breadth of study requirement in natural sciences and mathematics.

Satisfactory/Unsatisfactory Restrictions

Majors in mathematics and computer science may not take mathematical sciences or related area courses on a satisfactory/unsatisfactory basis. Students considering graduate study should consult with their advisers about taking work on a satisfactory/unsatisfactory basis.

Degree Requirements

All mathematical sciences courses presented to meet the degree requirements must be completed with a grade of C- or better. At least four courses numbered 3000 or above must be taken in residence. Students must have a 2.0 grade point average in the mathematical sciences courses completed.

Students enrolling in introductory mathematics courses should check the prerequisites to determine if a satisfactory score on the Mathematics Placement Test is necessary. The dates on which this test is administered are given on the department's website. Placement into introductory courses assumes a mastery of two years of high school algebra.

A minimum grade of C- is required to meet the prerequisite requirement for any course except with permission of the department.

Note: Courses that are prerequisites for higher-level courses may not be taken for credit or quality points if the higher-level course has been satisfactorily completed.

Many students are qualified, as a result of having studied calculus in high school, to begin their major with MATH 1900 (p. 187), Analytic Geometry and Calculus II, or MATH 2000 (p. 187), Analytic Geometry and Calculus III. These students are urged to consult with the department before planning their programs. Credit for MATH 1800 (p. 187), Analytic Geometry and Calculus I, will be granted to those students who complete MATH 1900 (p. 187) with a grade of C- or better.

Similarly, students who are ready to begin their computer science studies with CMP SCI 2250 (p. 187), Programming and Data Structures, will be granted credit for CMP SCI 1250 (p. 187), Introduction to Computing, once they complete CMP SCI 2250 (p. 187) with a grade of C- or better.

Degree Requirements in Mathematics

All mathematics majors in all undergraduate programs must complete the mathematics core requirements.

Core Requirements

1. The following courses are required: CMP SCI 1250 Introduction To Computing 3 (p. 187) MATH 1320 (p. Applied Statistics I 3 MATH 1800 (p. Analytic Geometry And Calculus I 187) MATH 1900 (p. Analytic Geometry And Calculus II 5 187) MATH 2000 (p. Analytic Geometry And Calculus III 5 187) MATH 2020 (p. Introduction To Differential Equations 3 MATH 2450 (p. Elementary Linear Algebra 3 187)

MATH 3000 (p. 187)	Discrete Structures	3
MATH 4100 (p. 187)	Real Analysis I	3
Total Hours		33

2. The related area requirements as described below must be satisfied. Students seeking a double degree, either within this department or with another department, do not have to fulfill the related area requirements.

Bachelor of Arts in Mathematics.

In addition to the core requirements and the College of Arts and Sciences' foreign language requirement, three mathematics courses at the 4000 level or higher must be completed. Of these, one must be MATH 4400 (p. 187), Introduction to Abstract Algebra

B.S.Ed. in Secondary Education with emphasis in mathematics.

In addition to the core requirements and the required education courses, three mathematics/statistics courses at the 4000 level or higher must be completed.

Of these, one must be, Introduction to Abstract Algebra, and one must be chosen from:

MATH 4660 (p. 187), Foundations of Geometry or MATH 4670 (p. 187), Introduction to Non-Euclidean Geometry

Bachelor of Science in Mathematics

In addition to the core requirements, the B.S. in Mathematics degree requires:

1.	Completing all of	the following:	
	MATH 4160 (p. 187)	Complex Analysis I	3
	MATH 4400 (p. 187)	Introduction To Abstract Algebra I	3
	MATH 4450 (p. 187)	Linear Algebra	3
	Total Hours		9

2. Completing an additional three courses numbered above 4000 in mathematics, statistics or computer science, at least one of which must be in mathematics/statistics.

Related Area Requirements for majors in **Mathematics**

Candidates for the B.A. in Mathematics must satisfy the requirements in one of the groups below with a grade of C-or better. Candidates for the B.S.Ed. in Mathematics and B.S. in Mathematics must satisfy the requirements in two of the groups below with a grade of C-or better.

If candidates choose group 2, then they cannot apply either of the two courses listed in that group towards the additional 4000 level mathematics courses (beyond the core requirements) that must be completed for each of these degrees.

Students seeking a double degree, either within this department or with another department do not have to fulfill the related area requirements.

Related Area Courses

1) Computer Scie	ence	
Select two of the f	ollowing:	6
CMP SCI 2250 (p. 187)	Programming And Data Structures	
CMP SCI 2700 (p. 187)	Computer Organization and Architecture	
CMP SCI 3130 (p. 187)	Design And Analysis Of Algorithms	
CMP SCI 4140 (p. 187)	Theory Of Computation	
CMP SCI 4410 (p. 187)	Computer Graphics	
CMP SCI 4420 (p. 187)	Introduction to Digital Image Processing	
2) Statistics		
MATH 4200 (p. 187)	Mathematical Statistics I	3
MATH 4210 (p. 187)	Mathematical Statistics II	3
3) Biology		
BIOL 2102 (p.	General Ecology	3

BIOL 2102 (p. General Ecology 187) BIOL 2103 (p. General Ecology Laboratory 2 187) 4) Biology BIOL 2012 (p. Genetics 3 187)

BIOL 4182 (p. 187)	Population Biology	3
5) Chemistry		
CHEM 1111 (p. 187)	Introductory Chemistry I	5
CHEM 1121 (p. 187)	Introductory Chemistry II	5

6) Chemistry

ECON 4100 (p.

CHEM 3312 (p. 187)	Physical Chemistry I	3
And another 3000	l-level, or above, chemistry course.	3
7) Economics		
ECON 1001 (p. 187)	Principles Of Microeconomics	3
ECON 1002		3

187)		
8) Philosophy		
PHIL 3360 (p. 187)	Formal Logic	3
PHIL 3380 (p.	Philosophy Of Science	3

Introduction To Econometrics

107)		
PHIL 4460 (p. 187)	Advanced Formal Logic	3
9) Physics		

PHYSICS 2111 (p. 187)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 187)	Physics: Electricity, Magnetism, And Optics	5
10) Physics		
PHYSICS 3221 (p. 187)	Mechanics	3
And another 3000	level, or above, physics course.	3
11) Business Ad	ministration	
LOG OM 3320 (p. 187)	Introduction To Operations Management	3
and one of the foll	owing courses:	
LOG OM 4321 (p. 187)	Production and Operations Management	3
LOG OM 4326 (p. 187)	Quality Assurance In Business	3
LOG OM 4330 (p. 187)	Business Logistics Systems	3
LOG OM 4350 (p. 187)	Management Science Methods	3
12) Engineering		
ENGR 2310 (p. 187)	Statics	3
ENGR 2320 (p. 187)	Dynamics	3

1) Computer Science

Select two of the t	Select two of the following: 6			
CMP SCI 2250 Programming And Data Structures				
CMP SCI 2700	Computer Organization and Architecture			
CMP SCI 3130	Design And Analysis Of Algorithms			
CMP SCI 4140	Theory Of Computation			
CMP SCI 4410	Computer Graphics			
CMP SCI 4420	Introduction to Digital Image Processing			
2) Statistics				
MATH 4200	Mathematical Statistics I	3		
MATH 4210	Mathematical Statistics II	3		
3) Biology				
BIOL 2102	General Ecology	3		
BIOL 2103	General Ecology Laboratory	2		
4) Biology				
BIOL 2012	Genetics	3		
BIOL 4182	Population Biology	3		
5) Chemistry				
CHEM 1111	Introductory Chemistry I	5		
CHEM 1121	Introductory Chemistry II	5		
6) Chemistry				
CHEM 3312	Physical Chemistry I	3		
And another 3000	level, or above, chemistry course.	3		
7) Economics				
ECON 1001	Principles Of Microeconomics	3		
ECON 1002	Principles Of Macroeconomics	3		
ECON 4100	Introduction To Econometrics	4		
8) Philosophy				

PHIL 3360	Formal Logic	3	
PHIL 3380	Philosophy Of Science	3	
PHIL 4460	Advanced Formal Logic	3	
9) Physics			
PHYSICS 2111	Physics: Mechanics And Heat	5	
PHYSICS 2112	Physics: Electricity, Magnetism, And Optics	5	
10) Physics			
PHYSICS 3221	Mechanics	3	
And another 3000 level, or above, physics course.			
11) Business Ad	ministration		
LOG OM 3320	Introduction To Operations Management	3	
and one of the following	lowing courses:		
LOG OM 4321	Production and Operations Management	3	
LOG OM 4326	Quality Assurance In Business	3	
LOG OM 4330	Business Logistics Systems	3	
LOG OM 4350	Management Science Methods	3	
12) Engineering			
ENGR 2310	Statics	3	
ENGR 2320	Dynamics	3	

Degree Requirements in Computer Science

Candidates for the B. S. Computer Science degree must complete the following work:

1) Computer Science Core

3000.

187)

3) Mathematics and StatisticsMATH 1320 (p. Applied Statistics I

	CMP SCI 1250 (p. 187)	Introduction To Computing	3
	CMP SCI 2250 (p. 187)	Programming And Data Structures	3
	CMP SCI 2261 (p. 187)	Object-Oriented Programing	3
	CMP SCI 2700 (p. 187)	Computer Organization and Architecture	3
	CMP SCI 2750 (p. 187)	System Programming and Tools	3
	CMP SCI 3010 (p. 187)	Web Programming	3
	CMP SCI 3130 (p. 187)	Design And Analysis Of Algorithms	3
	CMP SCI 4250 (p. 187)	Programming Languages	3
	CMP SCI 4280 (p. 187)	Program Translation	3
	CMP SCI 4500 (p. 187)	Introduction to Software Engineering	3
	CMP SCI 4760 (p. 187)	Operating Systems	3
	2) Computer Sci	ence Electives	

Select five more elective computer science courses, numbered above 15

3

MATH 1800 (p. 187)	Analytic Geometry And Calculus I	5
MATH 1900 (p. 187)	Analytic Geometry And Calculus II	5
MATH 2450 (p. 187)	Elementary Linear Algebra	3
MATH 3000 (p. 187)	Discrete Structures	3
4) Additional Ski	ills	
ENGL 3130 (p. 187)	Technical Writing	3
Total Hours	·	70

There are no related area requirements for majors in Computer Science

Minor Requirements

The department offers minors in computer science, mathematics, and statistics. All courses presented for any of these minors must be completed with a grade of C- or better.

Minor in Computer Science

The requirements for the minor are:

CMP SCI 1250 (p. 187)	Introduction To Computing	3
CMP SCI 2250 (p. 187)	Programming And Data Structures	3
Select three additi above.	onal computer science courses numbered 2000 or	9
Total Hours		15

A minimum of two computer science courses numbered above 2000 must be taken in residence in the Department of Mathematics and Computer Science at UMSL.

Minor in Mathematics

The requirements for the minor are:

MATH 1800 (p. 187)	Analytic Geometry And Calculus I	5
MATH 1900 (p. 187)	Analytic Geometry And Calculus II	5
MATH 2000 (p. 187)	Analytic Geometry And Calculus III	5
Select two additionabove 2400 ¹	nal three-hour mathematics couses numbered	6

excluding MATH 2510 (p. 187)

A minimum of two mathematics courses numbered 2000 or above must be taken in residence in the Department of Mathematics and Computer Science at UMSL.

Minor in Statistics

The requirements for the minor are:

MATH 1320 (p. Applied Statistics I 187)

MATH 4200 (p. 187)	Mathematical Statistics I	3
Select two additional courses in statistics numbered above 4200.		
Total Hours		12

A minimum of two statistics courses numbered above 2000 must be taken in residence in the Department of Mathematics and Computer Science at

Certificate in Actuarial Studies

Actuaries use the tools of economics, finance, and mathematics to evaluate and price risk. They are employed by insurance companies, pension funds, consulting firms, and a variety of other financial institutions. The actuarial profession has consistently been ranked as one of the most desirable professions in which to be employed. To become an actuary one must satisfy certain educational requirements, pass exams offered by the Society of Actuaries, and complete professional courses.

The Certificate in Actuarial Studies is designed to provide the education needed for entry level employment in the actuarial profession. Those who complete the certificate will satisfy the Validation by Educational Experience requirement of the Society of Actuaries and be prepared to take the first two actuarial examinations (P and M).

Completion of the certificate requires the following courses. Please note that many of these courses have prerequisites so anyone pursuing the certificate should work carefully with an academic advisor.

Required Courses

Total Hours		18
MATH 4020 (p. 187)	Financial Mathematics II	3
MATH 4010 (p. 187)	Financial Mathematics I	3
MATH 4210 (p. 187)	Mathematical Statistics II	3
MATH 4200 (p. 187)	Mathematical Statistics I	3
FINANCE 3521 (p. 187)	Financial Engineering: Applying Derivatives	3
FINANCE 3500 (p. 187)	Financial Management	3

Residency Requirement: Of the above required six courses at least five must be taken at the University of Missouri-St. Louis.

Graduate Studies

The Department of Mathematics and Computer Science offers an M.A. degree in mathematics, a Ph.D. degree in applied mathematics (with options in mathematics and computer science), and an M.S. degree in computer science.

Admission

3

Applicants must meet the general admission requirements of the Graduate School, described elsewhere in this Bulletin. Additional admission requirements for specific programs are listed below.

Mathematics Programs

Applicants must have at least a bachelor's degree in mathematics or in a field with significant mathematical content. Examples of such fields include computer science, economics, engineering and physics. An applicant's record should demonstrate superior achievement in undergraduate mathematics.

Individuals may apply for direct admission to either the M.A. or Ph.D. program. Candidates for the M.A. degree may choose to concentrate in either pure or applied mathematics. Students in the M.A. program who want to transfer to the Ph.D. program upon successful completion of 15 credit hours must fill out a new application through Graduate Admissions.

Students intending to enter the Ph.D. program must have a working ability in modern programming technologies. A student with a deficiency in this area may be required to take courses at the undergraduate level in computer science.

Applicants for the Ph.D. program must, in addition, submit three letters of recommendation and scores from the Graduate Record Examination (GRE) general aptitude test.

Computer Science Programs

Applicants must have at least a bachelor's degree, preferably in computer science or in a related area. Applicants with bachelor's degrees outside of computer science must demonstrate significant proficiency in computer science, either by taking the GRE subject area examinations or by explicitly showing competence (proving related academic or professional experience, or taking a test) in the following areas. Courses in parenthesis are UMSL courses that can be used to fulfill the requirement.

Programming skills in C or C++ and Java (CMP SCI 1250 (p. 187) or CMP SCI 2250 (p. 187), and CMP SCI 2261 (p. 187))

Proficiency with Object-Oriented concepts and terminology (CMP SCI 2261 (p. 187))

Proficiency with dynamic data structures (CMP SCI 2250 (p. 187))

Proficiency with computer organization, architecture, or assembly level programming (CMP SCI 2700 (p. 187))

Proficiency with design and time/space analysis of algorithms (CMP SCI 3130 (p. 187))

Familiarity with Unix/Linux/OSX and with command-line scripting with tools (CMP SCI 2750 (p. 187))

Students must also have satisfactorily completed mathematics courses equivalent to the following UMSL courses:

Two semesters of calculus (MATH 1800 (p. 187) and MATH 1900 (p. 187))

A course in elementary linear algebra (MATH 2450 (p. 187))

A course in discrete mathematics (MATH 3000 (p. 187))

An elementary course in probability or statistics (MATH 1320 (p. 187))

A student missing some of the above requirements may be admitted on restricted status if there is strong supportive evidence in other areas. The student will have to take the missing courses, or otherwise demonstrate

proficiency. Special regulations of the Graduate School that apply to students on restricted status are described in the UMSL Bulletin.

Preliminary Advisement

Incoming students are assigned advisers with whom they should consult before each registration period to determine an appropriate course of study. If necessary, students may be required to complete undergraduate course work without receiving graduate credit.

Students interested in the Ph.D. program in applied mathematics with the computer science option must follow the requirements for that program and that option.

Degree Requirements Master of Arts in Mathematics

Candidates for the M.A. degree must complete 30 hours of course work. All courses numbered below 5000 must be completed with grades of at least B. The courses taken must include those listed below in group A together with additional courses discussed in B.

Students who have already completed courses equivalent to those in A) may substitute other courses numbered above 4000. All substitutions of courses for those listed in A) require the prior approval of the graduate director.

A. Mathematics core:

MATH 4100 (p. 187)	Real Analysis I	3
MATH 4160 (p. 187)	Complex Analysis I	3
MATH 4450 (p. 187)	Linear Algebra	3
Total Hours		9

B. M.A. candidates must also complete 15 hours of course work numbered 5000 or above, chosen with the prior approval of the graduate director. Courses may be chosen to develop expertise in either pure or applied mathematics.

Thesis Option

Part of B) may consist of an M.A. thesis written under the direction of a faculty member in the Department of Mathematics and Computer Science. A thesis is not, however, required for this degree. A student who wishes to write a thesis should enroll in 6 hours of MATH 6900 (p. 187), M.A. Thesis. Students writing an M.A. thesis must defend their thesis in an oral exam administered by a committee of three department members which includes the thesis director.

Doctor of Philosophy in Applied Mathematics

The program has two options:

- 1. Mathematics Option
- 2. Computer Science Option

The requirements for the Ph.D. degree include the following:

- 1. Course work
- 2. Ph.D. candidacy
- 3. Doctoral dissertation

The requirements are described in detail below.

1. Course Work

A minimum of 60 hours of courses numbered 4000 or above.

In the Mathematics Option, at least 33 hours must be in courses numbered 5000 or above.

In the Computer Science Option, at least 45 hours must be in courses numbered 5000 or above.

At most 9 hours of a student's enrollment in MATH 7990 (p. 187) (Dissertation Research) may be counted. Students are expected to maintain a 3.0 average on a 4.0 scale. All courses numbered below 5000 must be completed with a grade of at least B. Courses outside the Department of Mathematics and Computer Science will require approval of the graduate director.

When students who have earned a Master's degree are admitted to the doctoral program, appropriate credits of course work may be applied toward meeting the requirements for the doctoral degree, subject to Graduate School regulations and the approval of the graduate director. The same applied to those with some appropriate graduate credits but without a completed Master's degree.

2. Ph.D. Candidacy

Advancement to Ph.D. candidacy is a three-step process consisting of:

- a. Completing 18 hours of 5000 level courses other than MATH 7990 (p. 187), Ph.D. Dissertation Research.
- b. Passing the comprehensive examination.
- Selecting a Ph.D. committee and preparing a dissertation proposal and defense of the proposal.

Qualifying Examination

A student must fulfill the following requirements.

Basic Requirement

Pass one written examination covering fundamental topics. This examination would normally take place within the first 12 credit hours of study after admission to the Ph.D. program.

Mathematics Option

Topics from real analysis, complex analysis, and linear algebra:

MATH 4100 (p. 187)	Real Analysis I	3
MATH 4160 (p. 187)	Complex Analysis I	3
MATH 4450 (p. 187)	Linear Algebra	3
Total Hours		9

Computer Science Option

Topics from the theory of programming languages, operating systems, analysis of algorithms, and computer systems:

CMP SCI 4250 (p. 187)	Programming Languages	3
CMP SCI 4760 (p. 187)	Operating Systems	3
CMP SCI 5130 (p. 187)	Advanced Data Structures And Algorithms	3
CMP SCI 5700 (p. 187)	Computer Systems	3
Total Hours		12

Additional Requirement

After fulfilling the basic requirement above, the student must meet one of the following:

- Pass a written examination in an area of the student's interests. This
 area will be approved by the graduate committee and will be based
 on a set of two or more graduate courses taken by the student. This
 examination would normally take place within the first 24 credit hours
 of study after admission to the Ph.D. program.
- 2. Write a survey paper in a specialized area under the direction of a member of the graduate faculty. The student should propose to take this option when he/she has already finished at least 2 graduate level courses and has the approval of the graduate committee. The paper should be submitted within four semesters, at which time an oral examination given by a committee of at least three members of the graduate faculty must be passed.

In both parts 1) and 2), the graduate committee will determine if the topics are consistent with the option that the student is pursuing.

Dissertation Committee and Dissertation Proposal

After completing the comprehensive examinations, each student chooses a dissertation advisor and prepares a Dissertation Proposal. Usually students choose an advisor from contacts made through their course work. The dissertation committee will be formed, and the student will meet with this committee for an oral defense of his/her dissertation proposal. The dissertation proposal is a substantial document describing the problem to be worked on and the methods to be used, as well as demonstrating the student's proficiency in written communication.

Doctoral Dissertation

Each Ph.D. candidate must write a dissertation that is an original contribution to the field on a topic approved by the candidate's Ph.D. Committee and the department, and which meets the standards and requirements set by the Graduate School including the public defense of the dissertation. Students working on a dissertation may enroll in MATH 7990 (p. 187), Ph.D. Dissertation Research. A maximum of 9 hours in MATH 7990 (p. 187) can be used toward the required hours of work in courses numbered 5000 or above.

Master of Science in Computer Science

Candidates for the M.S. degree in Computer Science must complete 30 hours of course work, subject to the Graduate School regulations. Of these, at least 18 hours must be numbered 5000 or above, with at least

one course numbered 6000 or above, chosen with the prior approval of the Graduate Director. All courses numbered below 5000 must be completed with grades of at least B-. Outside computer science, up to 6 hours of related course work is allowed upon permission of the Graduate Director.

Students must satisfy all of the following core requirements:

CMP SCI 4760 (p. 187)	Operating Systems	3
CMP SCI 4250 (p. 187)	Programming Languages	3
CMP SCI 5700 (p. 187)	Computer Systems	3
CMP SCI 5500 (p. 187)	Software Engineering	3
CMP SCI 5130 (p. 187)	Advanced Data Structures And Algorithms	3
Total Hours		15

Waiving or substituting for a specific requirement can be done on the basis of prior course work or experience at the discretion of the Graduate Director, but it will not reduce the total hours required for the degree.

Additionally, students must attend at least five different seminars or colloquium presentations in the department.

Thesis Option

Students may choose to write an M.S. thesis under the direction of a faculty member in the Department of Mathematics and Computer Science. A thesis is not, however, required for this degree. A student who wishes to write a thesis should enroll in 6 hours of CMP SCI 6900 (p. 187), Thesis. Students writing an M.S. thesis must defend their thesis in an oral exam administered by a committee of three department members which includes the thesis director.

Financial Assistance

Any student who intends to apply for financial assistance, in the form of a teaching assistantship or a research assistantship, is required to have three letters of recommendation submitted with the application to the graduate program in Mathematics or Computer Science. The application must include scores on the GRE general aptitude test. Applicants are also encouraged to submit scores in the GRE subject area test in Mathematics or Computer Science. Applications for financial assistance should be submitted before February 15 prior to the academic year in which the student expects to begin graduate study. Notifications of awards are generally made March 15, and students awarded financial assistance are expected to return letters of acceptance by April 15.

Computer Science Courses

CMP SCI 1010 Introduction To Computers And The Internet: 3 semester hours

Prerequisites: None. Covers basic concepts and components of a PC: survey of popular applications including e-mail, word processors, spreadsheets, overview of the Internet, popular browsers, World Wide Web, search engines, multimedia, web pages, security, and privacy. Credit not granted for both CMP SCI 1010 and INFSYS 1800.

CMP SCI 1011 Introduction to the Internet and World Wide Web: 3 semester hours

Intended for any student wishing to utilize the Internet and World Wide Web more effectively. Topics include networking basics, the Internet and World Wide Web, browsers, search engines, Web Services, utilities, tools, online privacy and security. Students will learn to develop a personal web page using skills acquired in the course.

CMP SCI 1012 Learning to Program Using Virtual Worlds: 3 semester hours

Introduces modern programming principles without requiring the knowledge of a traditional programming language. Instead, this course utilizes a novel graphical approach that enables the student to create, populate, and manipulate virtual 3-dimensional worlds which resemble video games. The development of these worlds allows students to gain direct experience and skills in using computers to solve problems. Students will create worlds of varying complexity.

CMP SCI 1250 Introduction To Computing: 3 semester hours

Prerequisites: MATH 1030 with B-or better, or MATH 1100, or MATH 1800. Provides an introduction to the concepts of computation, problem solving, and computer systems. Covers fundamental programming constructs, basic data types, and modularization using a modern high level language. Problem solving skills are developed through a progression of programming projects.

CMP SCI 2250 Programming And Data Structures: 3 semester hours
Prerequisite: CMP SCI 1250. Continuation of CMP SCI 1250. Discusses
properties and implementation of abstract data types such as lists, trees,
stacks and queues. Introduces procedural and class abstraction, basic
program architecture, use of interfaces, modular programming, and file
processing.

CMP SCI 2261 Object-Oriented Programing: 3 semester hours

Prerequisite: CMP SCI 2250. Introduces object-oriented concepts, terminology, and notation (UML) using Java. Covers encapsulation, classes, objects, inheritance, and the use of class libraries. Additional topics may include graphical user interfaces, applets, and related tools and technologies.

CMP SCI 2700 Computer Organization and Architecture: 3 semester hours

Prerequisite: CMP SCI 2250. Introduces details of computer systems from architectural and organizational points of view. Covers data representation, basic digital logic circuits, memory types and hierarchies, I/O and storage devices, CPU architectures such as RISC, CISC, parallel, and multi-core.

CMP SCI 2750 System Programming and Tools: 3 semester hours

Prerequisites: CMP SCI 2250. Covers systems programming, scripting, libraries, utilities, and development tools. Additional programming topics include piping, binary files, exception handling, command-line arguments and symbolic debugging. This course also explores tools available in the Unix/Linux environments.

CMP SCI 3010 Web Programming: 3 semester hours

Prerequisite: CMP SCI 2250 Provides a survey of current Web technologies including markup languages (such as HTML/XHTML, CSS, XML), client side languages (such as JavaScript), server side languages (such as PERL, PHP), and Web protocols. This course requires client-server computing projects.

CMP SCI 3130 Design And Analysis Of Algorithms: 3 semester hours

Prerequisites: CMP SCI 2250, MATH 1320, MATH 2450, and MATH 3000. Addresses the design and analysis of fundamental algorithms in computer science. Studies basic sorting algorithms, priority queues, order statistics, search trees, and hash tables. Analysis techniques may involve time and space complexity analysis of both iterative and recursive algorithms, analysis of algorithm correctness, and amortized complexity analysis. Additional topics may include data compression, string manipulation, greedy algorithms, dynamic programming, and graph traversal.

CMP SCI 3710 Assembly Language Programming: 3 semester hours

Prerequisite: CMP SCI 2700. Explores machine architecture concepts and principles through a study of assembly language programming. Topics covered include integer and floating point arithmetic, procedures, conditional processing, strings, macros, and interfaces to high level languages. Programming projects using a commercially available assembly language will be required.

CMP SCI 4010 Advanced Web Development with Java: 3 semester hours

Prerequisites: CMP SCI 2261 and CMP SCI 3010, or consent of instructor. Covers more advanced Java topics, along with related concepts and technologies for Web development. Topics may include database connectivity, multi threading, security, networking, MVC pattern, testing and source control for Java applications, and server-side topics such as servlets and web servers.

CMP SCI 4030 Introduction to Intelligent Web: 3 semester hours

Prerequisites: CMP SCI 2261, CMP SCI 2750, CMP SCI 3010, and CMP SCI 3130. Covers the application of artificial intelligence and other modern techniques to help construct, navigate, and experience the Web. Topics may include retrieval models, classification, mining, association, topology, and indexing algorithms such as PageRank and HITS. Credit cannot be earned for both CMP SCI 4030 and CMP SCI 5030.

CMP SCI 4140 Theory Of Computation: 3 semester hours

Prerequisite: CMP SCI 3130. Provides an introduction to the theory of computation. Describes basic computational models, such as finite state machines, pushdown automata, Turing machines and grammars. Covers the concept of nondeterministic computation and the relationships between different computational models. Discusses decidability, reducibility, and classification of problems into complexity classes based on their time and space complexity, such as P, NP, and PSPACE.

CMP SCI 4250 Programming Languages: 3 semester hours

Prerequisite: CMP SCI 2261 and CMP SCI 3010 or Graduate Standing. Studies the principles, approaches, and trade-offs in modern programming languages, including a comparative study of syntax, semantics, and pragmatics. Examines major programming paradigms: object-oriented, imperative, functional and logic.

CMP SCI 4280 Program Translation: 3 semester hours

Prerequisites: CMP SCI 2700, CMP SCI 2750, and CMP SCI 4250. Focuses on methods, techniques, and mechanisms used to create the abstraction from high level programming to machine level execution. This course also requires an individual, semester long project.

CMP SCI 4300 Introduction To Artificial Intelligence: 3 semester hours

Prerequisites: CMP SCI 2261, CMP SCI 2750 and CMP SCI 3130. Provides an introduction to artificial intelligence. The list of topics may include search, planning, knowledge-based reasoning, probabilistic inference, machine learning, natural language processing, and practical applications.

CMP SCI 4340 Introduction to Machine Learning: 3 semester hours

Prerequisites: CMP SCI 2261, CMP SCI 2750 and CMP SCI 3130. Provides an introduction to machine learning in the context of applications such as data mining, natural language processing, and adaptive computer systems. The course reviews several supervised, unsupervised, and reinforcement machine learning techniques such as naive Bayes networks, clustering, and decision trees. Selected concepts in computational learning theory may also be covered. Credit cannot be granted for both CMP SCI 4340 and CMP SCI 5340.

CMP SCI 4410 Computer Graphics: 3 semester hours

Prerequisites: CMP SCI 2750 and CMP SCI 3130. Covers the theoretical foundation and algorithms for computer graphics. Students learn the basics of graphics programming for modeling, rendering, and animation of 2D and 3D objects. Vector and raster graphics, and different display devices are also discussed. A brief discussion of special graphics hardware, such as GPU, may be presented.

CMP SCI 4420 Introduction to Digital Image Processing: 3 semester hours

Prerequisites: CMP SCI 2750 and CMP SCI 3130. Focuses on image analysis and visual perception. Students learn data structures and algorithms for image processing, region and texture analysis, image filtering, edge detection, contour following, and image enhancement in both spatial and frequency domain. Other topics may include color processing, coding for storage, retrieval, transmission, and image restoration. Credit cannot be granted for both CMP SCI 4420 and CMP SCI 5420.

CMP SCI 4500 Introduction to Software Engineering: 3 semester hours

Prerequisite: CMP SCI 2261, CMP SCI 2700, CMP SCI 2750, CMP SCI 3010, and CMP SCI 3130. Focuses on software development and on the skills required for success in the software profession. Topics related to software development may include software process, models and views, software architectures, documentation, and testing strategies. Topics related to the profession may include licensing, copyright, trademarks, and professional conduct. Individual and group projects, research, and presentations may be required in this capstone course.

CMP SCI 4520 Introduction to Object-Oriented Analysis And Design: 3 semester hours

Prerequisite: CMP SCI 2261, CMP SCI 3010, CMP SCI 3130. Covers object-oriented development, illustrated with a visual modeling language and following an agile process. Discusses elements of analysis, requirements, design, implementation, and deployment such as use cases, static and dynamic diagrams, patterns, and frameworks. This course includes a semester long project starting with requirements and culminating with deployment. Credit not granted for both CMP SCI 4520 and CMP SCI 5520.

CMP SCI 4610 Database Management Systems: 3 semester hours

Prerequisites: CMP SCI 2750 and MATH 3000. Focuses on database theory and applications, with emphasis on the relational model. Topics include database design, modeling, file systems, indexing, integrity constraints, relational algebra, normalization, transaction processing, and concurrency control. Students are exposed to emerging DBMS technologies and applications. Several programming projects will be required, using a popular SQL server.

CMP SCI 4730 Computer Networks And Communications: 3 semester hours

Prerequisites: CMP SCI 2750 and MATH 1320. Covers communication systems in the context of the ISO and TCP/IP standards for systems interconnection. Covers various types of networks including wide area networks, local area networks, and fiber optic networks.

CMP SCI 4760 Operating Systems: 3 semester hours

Prerequisites: CMP SCI 2700, CMP SCI 2750, and CMP SCI 3130. Covers the structure of a generic operating system, considering in detail the algorithms for interprocess communication, process scheduling, resource management, memory management, file systems, and device management. Presents examples from contemporary operating systems. This course also requires practical projects implemented within a modern operating system or simulator environment.

CMP SCI 4780 Computer and Network Security: 3 semester hours Prerequisite: CMP SCI 2750. Covers major issues relevant to providing security in a networked environment. The course includes algorithms and protocols for secure communications between computers.

CMP SCI 4880 Individual Studies: 1-3 semester hours

Prerequisites: Consent of the instructor. This course allows a student to pursue individual studies under the supervision of a faculty member. It may include development of a software project. The course may be repeated for credit.

CMP SCI 4890 Topics In Computer Science: 3 semester hours

Prerequisites: Consent of the Instructor. Covers a special topic in computer science to be determined by recent developments in the field and the interests of the instructor. Course may be repeated for credit.

CMP SCI 5010 Enterprise Web Development: 3 semester hours

Prerequisite: CMP SCI 4010 or consent of instructor. Covers design and implementation issues for enterprise web development, and some popular advanced technologies. Topics include MVC and persistence frameworks, such as Spring and Hibernate. Other topics may include Java Web services, EJB, messaging standards such as JMS, and Java EE design patterns. Students will develop enterprise-level web application projects using the.

CMP SCI 5030 Intelligent Web: 3 semester hours

Prerequisite: Consent of the instructor. Covers the application of artificial intelligence and other modern techniques to help construct, navigate, and experience the Web. Topics may include retrieval models, classification, mining, association, topology, and indexing algorithms such as PageRank and HITS. Topics are the same as CMP SCI 4030 but material is covered at a greater depth and additional projects are required. Credit cannot be earned for both CMP SCI 4030 and CMP SCI 5030.

CMP SCI 5130 Advanced Data Structures And Algorithms: 3 semester hours

Prerequisite: An elementary course in analysis of algorithms or consent of the instructor. This course covers analysis of time and space complexity of iterative and recursive algorithms along with performance bounds, design of data structures for efficent performance, sorting algorithms, probabilistic algorithms, divide and conquer strategies, various algorithms on graphs, and np completeness.

CMP SCI 5320 Introduction To Evolutionary Computation: 3 semester hours

Prerequisites: CMP SCI 4300 or consent of instructor. This course introduces the concepts of nature-inspired problem solving population dynamics, Darwinian selection, and inheritance. It discusses problems applicable to evolutionary algorithms, overviews the existing models and instances, and analyzes specific instances such as genetic algorithms and genetic programming.

CMP SCI 5340 Machine Learning: 3 semester hours

Prerequisites: Consent of instructor. Provides an introduction to machine learning in the context of applications such as data mining, natural language processing and adaptive computer systems. Reviews several supervised, unsupervised, and reinforcement machine learning techniques such as naive Bayes networks, clustering and decision trees. Selected concepts in computational learning theory may also be covered. Topics are the same as CMP SCI 4340 but material is covered at a greater depth and additional projects are required. Credit cannot be granted for both CMP SCI 4340 and CMP SCI 5340.

CMP SCI 5420 Digital Image Processing: 3 semester hours

Prerequisites: Consent of instructor. Covers topics in image analysis and visual perception. Students learn data structures and algorithms for image processing, region and texture analysis, image filtering, edge detection, contour following, and image enhancement in both spatial and frequency domain. Other topics may include color processing, coding for storage, retrieval, transmission, and image restoration. Topics are the same as CMP SCI 4420 but material is covered at a greater depth and additional projects are required. Credit cannot be granted for both CMP SCI 4420 and CMP SCI 5420.

CMP SCI 5500 Software Engineering: 3 semester hours

Prerequisite: Consent of instructor. Introduces software engineering as a discipline, discusses stages of the software life cycle, compares development models such as waterfall, prototyping and incremental/ iterative, covers requirements analysis, effort and cost estimation, compares structured and object-oriented analysis and design methods. Discusses verification/validation, quality assurance, software reliability, testing methods, maintenance, documentation, project management and team structure, metrics, and available tools.

CMP SCI 5520 Object Oriented Analysis And Design: 3 semester hours

Prerequisite: Consent of the instructor. Covers object-oriented development, illustrated with visual modeling language and following an agile process. Discusses elements of analysis, requirements, design, implementation, and deployment such as use cases, static and dynamic diagrams, patterns and frameworks. A semester long project, starting with requirements and culminating with deployment, is required. Topics are the same as CMP SCI 4520 but material is covered at a greater depth and additional projects are required. Credit not granted for both CMP SCI 4520 and CMP SCI 5520.

CMP SCI 5700 Computer Systems: 3 semester hours

Prerequisite: Background in computer organization or architecture or consent of the instructor. This course focuses on parallel computing architectures, including RISC, pipelining, vector processing, SIMD, MIMD, and array processing. It introduces different memory and I/O subsystems, hardware description languages, and it demonstrates performance enhancement using different architectures studied.

CMP SCI 5740 High Performance Computing: 3 semester hours

Prerequisite: Consent of the instructor. Introduces algorithms for multiprocessor and multi-core architectures. Students learn the models of modern parallel computation and techniques to take advantage of parallel architectures for distributed and shared memory multi-processor architectures.

CMP SCI 5880 Computer Science Independent Project: 1-3 semester hours

Prerequisites: Graduate standing and consent of instructor This course offers the student an opportunity to work on an advisor-supervised project, individually or in a group. A student may repeat the course for up to 6 credit hours total, but at most 6 hours can be accumulated for CMP SCI 5880 and CMP SCI 6900.

CMP SCI 5890 Topics In Computer Science: 1-3 semester hours

Prerequisites: Graduate standing and consent of the instructor This course offers various topics not offered on a regular basis. It may be taken more than once for credit with the consent of the department.

CMP SCI 5900 Graduate Internship in Computer Science: 3 semester hours

Prerequisites: Consent of AdvisorThe internship provides for a student to attain field experience in an organization related to Computer Science. A student is employed off-campus for an assignment of at least 320 hours working on a project as directed by his/her supervisor in the host organization. The project should be approved by the student's academic advisor, or a designated faculty member, who will monitor the student's progress. The student is responsible for having the project supervisor at the company establish contact with the academic advisor to establish schedule and goals, and a procedure to evaluate the goals. The student will submit a written report to the advisor at the end of internship. The course cannot be repeated for credit. Students completing this course will be allowed only up to three hours of Independent Study (CMP SCI 5880).

CMP SCI 6320 Advances In Evolutionary Computation: 3 semester hours

Prerequisite: CMP SCI 5320 or consent of instructor. This course focuses on some advanced topics in Genetic and Evolutionary Computation, both theoretical and practical. Topics may include competent genetic algorithms, learning classifier systems, and Markov models. A substantial part of the course will be based on recent literature. Projects may involve literature research, developing specific applications or implementing a specific model.

CMP SCI 6340 Genetic Programming: 3 semester hours

Prerequisite: CMP SCI 5320 or consent of instructor. This course provides an in-depth exploration of Genetic programming, including advanced concepts such as scalability, evolution of modularity and regularity, and constrained evolution with CGP, STGP, or CFG-based GP. It may be reading, research, or application oriented.

CMP SCI 6410 Topics In Computer Graphics: 3 semester hours

Prerequisites: CMP SCI 4410 or consent of instructor This course covers various aspects of advanced graphics techniques, such as geometric modeling, rendering, shading, texturing, and computer animation. The course proides an indepth study of recent advanced topics in computer graphics.

CMP SCI 6420 Topics In Image Processing And Multimedia: 3 semester hours

Prerequisites: CMP SCI 5400, CMP SCI 5420 or consent of instructor. This course covers new developments in digital image processing, computer vision, and multimedia. Topics to be covered may include image databases, object tracking, and large-scale data visualization.

CMP SCI 6740 High Performance Computing: 3 semester hours

Prerequisites: CMP SCI 5740, or Graduate standing and consent of instructor. Looks at the current state of the art in parallel and distributed computing, with emphasis on programming in such environments. Introduction to the state of the art in code optimization and grid computing environments.

CMP SCI 6900 Thesis: 1-6 semester hours

Prerequisites: Completion of at least 12 graduate credits and approval of research topic by thesis advisor. This course is designed for those students intending to present a thesis as part of their M.S. program. At most 6 hours can be accumulated for CMP SCI 5880 and CMP SCI 6900.

Mathematics Courses

MATH 0005 Intermediate Algebra: 3 semester hours

Prerequisites: A satisfactory score on the UMSL Math Placement Examination, obtained at most one year prior to enrollment in this course. Preparatory material for college level mathematics courses. Covers systems of linear equations and inequalities, polynomials, rational expressions, exponents, quadratic equations, graphing linear and quadratic functions. This course carries no credit towards any baccalaureate degree.

MATH 1020 Contemporary Mathematics: 3 semester hours

Prerequisites: A score of 22 or higher on the ACT Math sub-test, or a grade of C or better in a two or four year college intermediate algebra course; or a satisfactory score on the UMSL Math Placement Examination, obtained at most one year prior to enrollment in this course. Presents methods of problem solving, centering on problems and questions which arise naturally in everyday life. May include aspects of algebra and geometry, the mathematics of finance, probability and statistics, exponential growth, and other topics chosen from traditional and contemporary mathematics which do not employ the calculus. May be taken to meet the mathematical proficiency requirement, but may not be used as a prerequisite for other mathematics courses. Designed for students who do not plan to take calculus. Credit will not be granted for MATH 1020(20) if credit has been granted for MATH 1310(31), MATH 1800(80), MATH 1100(100), MATH 1102(102), or MATH 1105(105). Concurrent enrollment in MATH 1020(20) and any of these courses is not permitted.

MATH 1021 Choice and Chance: 3 semester hours

Same as PHIL 1021. Prerequisites: A score of 22 or higher on the ACT Math sub-test; or a grade of C or better in a two- or four-year college intermediate algebra course; or a satisfactory score on the UMSL Math Placement Examination, obtained at most one year prior to enrollment in this course. This course provides an introduction to inductive logic and the theory of probability in an organized and systematic way, so as to give students tools for more effective decision-making. We will introduce the probability calculus, basic concepts of utility theory, decision theory and different approaches to understanding probability. This course is designed to be accessible to students of all levels. Satisfies mathematics proficiency.

MATH 1030 College Algebra: 3 semester hours

Prerequisites: A score of 22 or higher on the ACT Math sub-test; or a grade of C or better in a two or four year college intermediate algebra course; or a satisfactory score on the UMSL Math Placement Examination, obtained at most one year prior to enrollment in this course. Topics in algebra and probability, polynomial functions, the binomial theorem, logarithms, exponentials, and solutions to systems of equations.

MATH 1035 Trigonometry: 2 semester hours

Prerequisite: MATH 1030 or concurrent registration, or a satisfactory score on the university's mathematics proficiency examination. A study of the trigonometric and inverse trigonometric functions with emphasis on trigonometric identities and equations.

MATH 1040 College Algebra for Science and Engineering: 4 semester hours

Prerequisites: A satisfactory score on the university's mathematical placement examination obtained in the six months prior to enrollment in this course, a score of 22 or higher on the ACT Math sub-test, or a grade of C or better in a two or four year college intermediate algebra course.

MATH 1100 Basic Calculus: 3 semester hours

Prerequisite: MATH 1030 or a satisfactory ACT Math score, or a satisfactory score on the university's proficiency examination. Introduction to plane analytic geometry and basic differential and integral calculus with applications to various areas. No credit for Mathematics majors. Credit not granted for both MATH 1800 and MATH 1100.

MATH 1102 Finite Mathematics: 3 semester hours

Prerequisites: MATH 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's proficiency examination. Introductory logic and set theory, partitions and counting problems, elementary probability theory, stochastic processes, Markov chains, vectors and matrices, linear programming, and game theory.

MATH 1105 Basic Probability And Statistics: 3 semester hours

Prerequisites: MATH 1030, or a satisfactory ACT Math score, or a satisfactory score on the university's proficiency examination. An introduction to probability and statistics. Topics include the concept of probability and its properties, descriptive statistics, discrete and continuous random variables, expected value, distribution functions, the central limit theorem, random sampling and sampling distributions. Credit not granted for more than one of MATH 1310 or MATH 1320 and MATH 1105.

MATH 1150 Structure Of Mathematical Systems I: 3 semester hours
Prerequisites: 45 hours of college credit and one of the following: MATH
1030, a satisfactory ACT Math score, or a satisfactory score on the
university's mathematics proficiency examination. A study of sets,
relations, functions, whole numbers; the integers and their properties, and
the rational and real number systems.

MATH 1310 Elementary Statistical Methods: 3 semester hours

Prerequisite: MATH 1030. An introduction to the basic tools and elementary methods of statistics, such as testing of hypotheses, analysis of variance, method of least squares, and time series. A student may not receive credit for more than one of MATH 1310, MATH 1320, and MATH 1105.

MATH 1320 Applied Statistics I: 3 semester hours

Prerequisites: MATH 1800 or MATH 1100. This is the first course of a one-year sequence in introductory probability and statistics. It provides a comprehensive introduction to those models and methods which are most likely to be encountered by students in their careers in applied mathematics and the sciences. Topics include descriptive statistics, basics of probability theory, random variables and their distributions, sampling distributions, confidence intervals, and hypothesis testing for population means and population proportions. A student may not receive credit for more than one of MATH 1310, MATH 1320 and MATH 1105.

MATH 1800 Analytic Geometry And Calculus I: 5 semester hours

Prerequisites: MATH 1030 and MATH 1035, or a satisfactory ACT Math score along with a satisfactory score on the university's trignometry examination, or satisfactory scores on both the university's mathematics proficiency examination and the university's trigonometry examination. This course provides an introduction to differential and integral calculus. Topics include limits, derivatives, related rates, Newton's method, the Mean-Value Theorem, Max-Min problems, the integral, the Fundamental Theorem of Integral Calculus, areas, volumes, and average values.

MATH 1900 Analytic Geometry And Calculus II: 5 semester hours
Prerequisite: MATH 1800. Topics include conic sections, rotation of
axes, polar coordinates, exponential and logarithmic functions, inverse
(trigonometric) functions, integration techniques, applications of the
integral (including mass, moments, arc length, and hydrostatic pressure),

parametric equations, infinite series, power and Taylor series.

MATH 2000 Analytic Geometry And Calculus III: 5 semester hours

Prerequisite: MATH 1900 Topics include vectors, cylindrical and spherical coordinates, vector-valued functions, arc length and curvature, functions of several variables, partial and directional derivatives, gradients, extrema, Lagrange multipliers, multiple integrals, change of variables, surface area,

MATH 2020 Introduction To Differential Equations: 3 semester hours
Prerequisite: MATH 2000. Topics Will Be Chosen From: Linear Differential
Equations, Equations With Constant Coefficients, Laplace Transforms,
Power Series Solutions, Systems Of Ordinary Differential Equations.

MATH 2450 Elementary Linear Algebra: 3 semester hours

vector fields, Stokes' Theorem.

Prerequisite: MATH 1100 or MATH 1900. An Introduction To Linear Algebra. Topics Will Include Complex Numbers, Geometric Vectors In Two And Three Dimensions And Their Linear Transformations, The Algebra Of Matrices, Determinants, Solutions Of Systems Of Equations, Eigenvalues And Eingenvectors.

MATH 2510 Structure Of Mathematical Systems II: 3 semester hours
Prerequisite: MATH 1150. An introduction to probability and statistics. An
intuitive study of elementary geometry. Introduction to the deductive theory
of geometry and to coordinate geometry.

MATH 3000 Discrete Structures: 3 semester hours

Prerequisites: MATH 1900 or MATH 1100, and CMP SCI 1250 or equivalent. Treats fundamental ideas in discrete structures and serves as a foundation for subsequent courses in both Mathematics and Computer Science. Provides an introduction to techniques of mathematical reasoning with examples derived from computer science. Topics include logic, set algebra, equivalence relations and partitions, functions, mathematical induction, elementary number theory, cardinality, recurrence relations, basic combinatorial methods, trees and graphs. Credit not granted for more than one of CMP SCI 3000, and MATH 3000.

MATH 3100 Problem Solving In Mathematics: 1 semester hour Prerequisite: MATH 2000 Course will train students to solve and write solutions to challenging mathematical problems, like those found in competitive exams like the Putnam Exam.

MATH 3520 Structure Of Mathematical Systems III: 3 semester hours
Prerequisite: MATH 2510 Together with MATH 1150 and MATH 2510, this
course teaches the mathematics necessary for middle school mathematics
certification. Topics from MATH 1150 and MATH 2510 are continued.
Other topics include geometric constructions, similarity, coordinate
geometry, normal distribution, combinatorics, and trigonometry.

MATH 4010 Financial Mathematics I: 3 semester hours

Prerequisites: MATH 1900 or MATH 1100, and MATH 1320 or LOG OM 3300 (or equivalents). An introduction to the theory of interest, annuities (certain), annuities with differing pay periods, amortization schedules and sinking funds.

MATH 4020 Financial Mathematics II: 3 semester hours

Prerequisites: MATH 4010. Premium-discount formula for bonds, bond amortization, term structure of interest rates and pricing theory for options.

MATH 4030 Applied Mathematics I: 3 semester hours

Prerequisite: MATH 2020 and MATH 2450. Topics chosen from Fourier series, special functions, partial differential equations, and boundary value problems.

MATH 4060 Applied Differential Equations: 3 semester hours

Prerequisites: MATH 2020 and MATH 2450 The study of ordinary differential equations and partial differential equations is continued with applications in such areas as physics, engineering and biology.

MATH 4100 Real Analysis I: 3 semester hours

Prerequisites: MATH 2000 and MATH 3000. Introduction to real analysis in one variable. Topics include the real number system, limits, continuity, differentiability, and sequences and series of functions.

MATH 4110 Advanced Calculus: 3 semester hours

Prerequisites: MATH 2000, MATH 2450, and MATH 3000. Multivariable analysis, inverse and implicit functions theorems, calculus on manifolds.

MATH 4160 Complex Analysis I: 3 semester hours

Prerequisites: MATH 2020 or both MATH 3000 and MATH 2000. Complex numbers and their geometrical representation, point sets, analytic functions of a complex variable, complex integration, Taylor and Laurent series, residue theorem, conformal mapping.

MATH 4200 Mathematical Statistics I: 3 semester hours

Prerequisites: MATH 1320 and MATH 2000. Introduction to the theory of probability and statistics using concepts and methods of calculus.

MATH 4210 Mathematical Statistics II: 3 semester hours

Prerequisites: MATH 4200. Continuation of MATH 4200. Sampling distributions, extimation theory, properties of estimators, hypothesis testing, NeymanPearson Theorem, likelihood ratio tests, introduction of analysis of variance and linear models. Basics of some nonparametric procedures.

MATH 4230 Numerical Analysis I: 3 semester hours

Prerequisites: MATH 2020, MATH 2450, and the ability to program in an upper-level language Solutions of equations, interpolation and approximation numerical differentiation and integration, and numerical solutions of initial value problems in ordinary differential equations. Selected algorithms will be programmed for solution on computers.

MATH 4260 Introduction To Stochastic Processes: 3 semester hours

Prerequisites: MATH 4200 Basic theory and applications of stochastic processes. Markov chains, recurrent and transient states, stationary distributions, ergodic theorem, renewal processes, discrete martigales and stationary processes.

MATH 4300 Multivariate Analysis: 3 semester hours

Prerequisites: MATH 2450 and MATH 4200, or consent of instructor Multivariate normal distribution and related sampling distributions. Procedures of statistical inference for multivariate normal distributions, such as hypothesis testing, parameter estimations, multivariate regression, classification and discriminant analysis and principal components analysis.

MATH 4310 Analysis Of Variance And Design Of Experiments: 3 semester hours

Prerequisites: MATH 2450 and MATH 4200, or consent of instructor. An introduction to the analysis of variance with applications in completely randomized designs, randomized block designs, factoral experiments and split-plot type designs.

MATH 4320 Regression Models In Statistics: 3 semester hours

Prerequisite: MATH 2320 or consent of instructor. A rigorous course focused on the applications of regression. The course is rigorous in that the basic regression models in one and several variables are carefully developed using matrix notation. Topics such as the extra sums of squares principle, the general linear hypothesis, and partial and sequential Ftests are carefully presented. The course will focus on using these tools to analyze many different data sets.

MATH 4350 Theory Of Numbers: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000, or consent of instructor Properties of integers, multiplicative functions, congruences, primitive roots, and quadratic residues.

MATH 4390 Topics In Probability And Statisitcs: 3 semester hours

Prerequisites: Consent of Instructor. A seminar on special topics in probability and statistics to be determined by the interests of the instructor. May be repeated for credit provided different topics are studied.

MATH 4400 Introduction To Abstract Algebra I: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000, or consent of the department Introduction to groups, rings, and fields, with emphasis on groups and rings.

MATH 4450 Linear Algebra: 3 semester hours

Prerequisites: MATH 3000, MATH 2000 and MATH 2450. Topics selected from vector spaces, bases, linear transformations, matrices, canonical forms, eigenvalues, hermitian and unitary matrices, inner product spaces, and quadratic forms.

MATH 4500 Special Readings: 1-10 semester hours

Prerequisites: MATH 3000, MATH 2000 and consent of instructor.

MATH 4550 Combinatorics: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000. Advanced counting methods are introduced, including the use of generating functions for the solution of recurrences and difference equations. Additional topics may include: graphs and trees, combinatorial designs, combinatorial games, error-correcting codes, and finite-state machines.

MATH 4640 Introduction To Differential Geometry: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000 Geometry of curves and surfaces in Euclidean three-space. Calculus on a surface. Intrinsic geometry of surfaces.

MATH 4660 Foundations Of Geometry: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000, or consent of the department A development of portions of Euclidean geometry from a selected set of axioms, including a discussion of consistency, independence, categoricity, and completeness of the axioms.

MATH 4670 Introduction To Non-Euclidean Geometry: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000, or consent of the department A summary of the history of the non-Euclidean geometries and a study of hyperbolic plane geometry.

MATH 4800 Introduction To Topology: 3 semester hours

Prerequisites: MATH 3000 and MATH 2000, or consent of the department A study of topological spaces, including the concepts of limit, continuity, connectedness, compactness, etc. Special emphasis placed on, and examples taken from, the space of real numbers.

MATH 4890 Topics In Mathematics: 3 semester hours

Prerequisite: Consent of Instructor.

MATH 5060 Computational Harmonic Analysis: 3 semester hours

Prerequisites: MATH 4030, MATH 4100 and MATH 4450 The course covers the basics of Fourier analysis and wavelet analysis. Topics include Fourier transforms and series, discrete Fourier transform, discrete cosine transform and their fast computational schemes, fast wavelet transform, and the lifting scheme. Additional topics include industrial standards for image compression and several aspects of signal processing.

MATH 5100 Real Analysis II: 3 semester hours

Prerequisites: MATH 4100 Introduction to measure and integration. Topics include the Riemann-Stieltjes integral, Lebesgue measure, measurable functions, the Lebesgue integral, Radon-Nikodym and Fubini theorems and the basics of Lp-spaces.

MATH 5110 Differentiable Manifolds: 3 semester hours

Prerequisites: MATH 4100, MATH 4450, and MATH 4800. An introduction to smooth manifolds and maps. Topics will include the Implicit Function Theorem, Sard's Theorem, transversality, intersection and degree theory, differential forms and integration on manifolds.

MATH 5140 Set Theory And Metric Spaces: 3 semester hours

Prerequisites: MATH 4100 or consent of instructor. Naive set theory, cardinal arithmetic, ordinal numbers, the axiom of choice and equivalents, metric spaces, convergence, continuity, compactness, contraction principals and applications. Construction of completions and examples like real numbers and p-adic numbers. Other topics could include the Stone-Weierstrass theorem and metrizability theorems.

MATH 5160 Complex Analysis II: 3 semester hours

Prerequisites: MATH 4160 and either MATH 4100 or MATH 4800. A second course in complex analysis, emphasizing the theory of analytic functions, and including various topics like the Riemann mapping theorem, normal families, analytic continuation, representations of analytic functions, and elliptic functions.

MATH 5320 Applied Statistics: 3 semester hours

Prerequisites: MATH 4210 or consent of instructor The course studies classical and recently developed statistical procedures selected from areas including analysis of variance, multivariate analysis, nonparametric or semi-parametric methods and generalized linear models. Emphasis is on application of procedures, including the rationale underlying choice of procedures.

MATH 5500 Directed Readings: 1-6 semester hours

Prerequisite: Consent of instructor. Independent readings at an advanced level.

MATH 5550 Topics In Advanced Math For The Teacher: 3 semester hours

Prerequisite: Consent of Instructor. This course will look at various topics in Algebra, Analysis, and Geometry that will deepen a teacher's understanding of the Mathematics of the precollegiate curriculum. It can be taken more than once for credit.

MATH 5600 Topics In Computation: 3 semester hours

Prerequisite: consent of instructor. The course will cover various advanced topics in computation, and can be taken more than once for credit. Examples of such topics are: computer graphics, computer architecture, theories of language, analysis of operating systems, numerical geometry and computer aided design, etc.

MATH 5700 Topics In Applied Mathematics: 3 semester hours

Prerequisite: consent of instructor. The course will cover various advanced topics on applied mathematics, and can be taken more than once for credit. Examples of such topics are: fast transforms, digital filters, etc.

MATH 5710 Topics In Analysis: 3 semester hours

Prerequisites: MATH 5100 or consent of instructor. Topics selected from the areas of Fourier analysis, harmonic analysis, functional analysis, special functions, generalized functions, and partial differential equations. May be taken more than once for credit with consent of department.

MATH 5820 Topics In Algebra: 3 semester hours

Prerequisite: Consent of instructor. Topics selected from the theory of groups, rings, fields, algebras and other algebraic systems. May be taken more than once for credit with consent of department.

MATH 6080 Advances In Wavelet Analysis: 3 semester hours

Prerequisites: MATH 5060 The course describes recent developments in several research areas connected with wavelet analysis. Included are frames, wavelet vectors, wavelet packets, wavelets on compact intervals and manifolds, adaptive (nonlinear) methods, and methods of computational physics. Applications include the sparsification of matrices, denoising and compression of signals.

MATH 6900 Masters Thesis: 1-6 semester hours

Prerequisite: Consent of instructor. Thesis work under the supervision of a faculty member. The course is designed for those students intending to present a thesis as part of their M.A. program. Students who do not write a thesis cannot apply MATH 6900 to a degree.

MATH 7990 Ph.D. Dissertation Research: 1-9 semester hours

Prerequisites: Completion of Comprehensive. May be taken for no more than nine hours.

Philosophy

General Information

Philosophy continues to keep alive the tradition begun by Socrates, Plato, and Aristotle of critically examining one's most cherished assumptions. Moreover, it deals with questions that are common to several areas of inquiry, such as art, ethics, the social sciences, the natural sciences, and the various professions. The study of philosophy also encourages logical precision, a heightened awareness of assumptions used in any discussion, and an attitude of both open-mindedness and responsible criticism toward new and unusual ideas. These skills are particularly useful for students planning careers in law, business, computer science, writing, or other fields requiring such disciplines of mind. For these reasons many students have found it useful to combine a major in another field with a major in philosophy. To accommodate such students, the department has a special program for double majors.

The philosophy faculty has an unusually wide range of research interests. Faculty members have written books and articles addressing not only the classical and traditional concerns of philosophy, but also contemporary controversies in the fields of law, psychology, sociology, political theory, biology, medical ethics, theology, logic, and philosophy of history as well. For their research in some of these areas, members have been awarded a number of national research grants, including fellowships from the National

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Science Foundation, the American Council of Learned Societies, and the National Endowment for the Humanities.

In keeping with this emphasis on diversity, the department is represented by scholars trained in widely different approaches to philosophy, such as the analytic tradition, Continental idealism and existentialism, Marxist dialectic, and Asian modes of thought.

Undergraduate Studies

General Education Requirements

Majors must meet the university and college general education requirements (p. 28). PHIL 1120: Asian Philosophy and PHIL 1125: Islamic Philosophy satisfy the college cultural diversity requirement. Majors may not count philosophy courses taken on a satisfactory/ unsatisfactory basis toward the degree requirements.

Expected Learning Outcomes

- Acquire basic knowledge of traditional philosophical issues in the western tradition.
- Develop critical thinking skills based on knowledge of the standards governing logical reasoning.
- Acquire familiarity with philosophical issues that arise in some other disciplines (e.g. biology, art, education, etc.).
- Acquire a basic understanding of ethical and social-political principles and their role in resolving ethical disputes and in evaluating social practices and institutions.
- Become acquainted with current philosophical debates in the areas of epistemology, metaphysics, and value theory, and with the arguments and proposals made to resolve them.

Degree Requirements Bachelor of Arts in Philosophy

The undergraduate major in philosophy requires 30 hours of philosophy coursework. All majors must complete the basic course requirements. Students with particular interests may choose to structure their major around tracks offered by the department. A minimum of 18 hours including all courses for the major at or above the 3000 level must be taken in residence in the UMSL Department of Philosophy. Philosophy majors must complete all required courses (under Course Requirements) with a grade of "C-" or higher and maintain a 2.0 GPA for all their Philosophy coursework.

Course Requirements

History of Philosophy

-		
Select two of the	following:	6
PHIL 1110 (p. 200)	Western Philosophy I: Antiquity To The Renaissance	
or PHIL 3301 (p. 200)	Ancient Philosophy	
PHIL 1111 (p. 200)	Western Philosophy II: Descartes To The Present	
or PHIL 3303 (p. 200)	Early Modern Philosophy	
Logic		
PHIL 1160 (p.	Critical Thinking	3

or PHIL 3360 (p. 200)	Formal Logic	
Normative Philos	sophy	
Select one of the	following:	3
PHIL 1130 (p. 200)	Approaches To Ethics	
PHIL 4430 (p. 200)	Social And Political Philosophy	
PHIL 4435 (p. 200)	Classical Ethical Theory	
PHIL 4438 (p. 200)	Recent Ethical Theory	

Junior Level Requirement

S	Select one of the following:		
	-	History of Philosophy course not used to satisfy the sophy Requirement above (PHIL 3301 (p. 200) to 200))	
	PHIL 3374 (p. 200)	Philosophy Of Art	
	PHIL 3378 (p. 200)	Philosophy of Mind	
	PHIL 3380 (p. 200)	Philosophy Of Science	

Core Requirement

PHIL 4440 (p.	Theories Of Knowledge	3
200)		
or PHIL 4445 (p. 200)	Metaphysics	
Senior Seminar		
PHIL 4491 (p.	Senior Seminar	3

PHIL 4491 (p. Senior Seminar 3

Tracks

Total Hours

Tracks are ways that the Philosophy major may be completed but they are not mandatory; a student may complete the Philosophy major without following any track. All students on a track must complete the course requirements of the major. Students may use the same course to satisfy the major's course requirements and the requirements of individual tracks but, if they do so, they need to add enough elective courses to reach a total of 30 hours of philosophy coursework.

Pre-Law

PHIL 4487	Topics In Philosophy Of Law	3
Select two of the	following:	6
PHIL 2251	Sexual Ethics	
PHIL 2252	Philosophical Foundations Of Criminal Justice	
PHIL 2254	Business Ethics	
PHIL 2255	Environmental Ethics	
PHIL 2256	Bioethics	
PHIL 2258	Medicine, Values, And Society ¹	
PHIL 2283	Markets & Morals	
PHIL 4430	Social And Political Philosophy	
PHIL 4435	Classical Ethical Theory	
PHIL 4437	Metaethics	

PHIL 4438	Recent Ethical Theory	
PHIL 4439	Topics In Ethical Theory	
Total Hours		9
Science S	tudies	
PHIL 3380	Philosophy Of Science	3
Select two of the	e following, at most one at the 2000 level:	6
PHIL 2258	Medicine, Values, And Society ¹	
PHIL 2281	Darwinism and the Philosophy of Biology	
PHIL 2282	Philosophy of Science in Historical Perspecitve	
PHIL 4465	Theory Of Decisions And Games	
PHIL 4479	Philosophy Of Cognitive Science	
PHIL 4480	Topics In Philosophy Of Science	
PHIL 4482	Philosophy Of Social Science	
PHIL 4483	Topics In History And Philosophy Of Science	
Total Hours		9

Psychology and Neuroscience

PHIL 3378	Philosophy of Mind	3	3
Select two of the	following:	6	3
PHIL 2280	Minds, Brains, And Machines		
PHIL 3380	Philosophy Of Science		
PHIL 4465	Theory Of Decisions And Games		
PHIL 4478	Topics In Philosophy Of Mind		
PHIL 4479	Philosophy Of Cognitive Science		
Total Hours		9	9

Ethics and Society

Select two of the	following:	6
PHIL 4430	Social And Political Philosophy	
PHIL 4435	Classical Ethical Theory	
PHIL 4437	Metaethics	
PHIL 4438	Recent Ethical Theory	
PHIL 4439	Topics In Ethical Theory	
Select one of the	following:	3
PHIL 2251	Sexual Ethics	
PHIL 2254	Business Ethics	
PHIL 2255	Environmental Ethics	
PHIL 2256	Bioethics	
Total Hours		9

Health Sciences

PHIL 2256	Bioethics	3
Select two of the	e following:	6
PHIL 2251	Sexual Ethics	
PHIL 2257	Happiness and the Meaning of Life	
PHIL 2258	Medicine, Values, And Society ¹	
PHIL 2280	Minds, Brains, And Machines	
PHIL 4478	Topics In Philosophy Of Mind	
PHIL 4479	Philosophy Of Cognitive Science	
Total Hours		9

History

Select one of the following:		
PHIL 3301	Ancient Philosophy	
PHIL 3302	Medieval Philosophy	
PHIL 4401	Plato	
PHIL 4402	Aristotle	
PHIL 4410	Topics and Figures in the History of Philosophy (depending upon the historical figure)	
Select one of the	e following:	3
PHIL 3303	Early Modern Philosophy	
PHIL 3304	Kant And Nineteenth Century Philosophy	
PHIL 4405	Rationalism	
PHIL 4406	Empiricism	
PHIL 4407	Kant	
PHIL 4408	Hegel	
PHIL 4410	Topics and Figures in the History of Philosophy (depending upon the historical figure)	
Select one of the following or an additional course from one of the above categories:		3
PHIL 2281	Darwinism and the Philosophy of Biology	
PHIL 2282	Philosophy of Science in Historical Perspecitve	
PHIL 3305	Twentieth Century Philosophy	
PHIL 3307	American Philosophy	
PHIL 4421	The Analytic Tradition	
PHIL 4435	Classical Ethical Theory	
PHIL 4483	Topics In History And Philosophy Of Science	
Total Hours		9

For Honors College students.

Departmental Honors

Majors with a 3.2 or higher grade point average in all courses may, with the department's consent, earn departmental honors by:

- 1. Taking, Introduction to Formal Logic;
- 2. Completing at least 3 hours of PHIL 4450, Special Readings in Philosophy;
- 3. Submitting an acceptable thesis before the end of the senior year.

Philosophy as Part of a Double Major

Consider combining your philosophy major with another major. Philosophy trains students in basic, portable skills such as thinking independently and creatively, analyzing and constructing arguments, communicating clearly and persuasively, and considering multiple viewpoints. So philosophy naturally complements virtually every other field.

Minor in Philosophy

The undergraduate minor in philosophy requires any five philosophy courses, at least three of which must be taken at the 3000 level or higher. Students with particular interests are encouraged to use the tracks above to organize their minor. All course work for the minor must be taken in residence in the UMSL Department of Philosophy.

A GPA of 2.0 or better is required in courses presented for the minor. Prospective minors are encouraged to consult with members of the department for advice in planning an appropriate sequence of courses.

Bachelor of Liberal Studies

Build a bridge to some other discipline by combining a minor in philosophy with a minor in that second field to get a Bachelor of Liberal Studies. For more information, please go to the Interdisciplinary Studies (https://nextbulletin.umsl.edu/artsandsciences/interdisciplinarystudies) program page.

Philosophy of Science and Technology Minor (PST)

The Minor in Philosophy of Science and Technology (PST) is an interdisciplinary program requiring a minimum of 18 credits in PST.

All required courses must be completed with a "C" or higher. The satisfactory/unsatisfactory option may not be used. No transfer courses may be used towards the PST Minor. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division may satisfy requirements for the student's major, consistently with the major's requirements.

Requirements

Math

Select one of the	following courses in either statistics or calculus:	3
BIOL 4122 (p. 200)	Biometry	
ECON 3100 (p. 200)	Economic Statistics	
MATH 1320 (p. 200)	Applied Statistics I	
MATH 1800 (p. 200)	Analytic Geometry And Calculus I	
PSYCH 2201 (p. 200)	Psychological Statistics	
SOC 3220 (p. 200)	Social Statistics	

Logic and Methodology

Select one of the following courses in either logic or methodology:

ANTHRO 4308 Practicum In Cultural Research Methods (p. 200)

ANTHRO 4310 Laboratory Methods In Archaeology (p. 200)

HIST 2999 (p. Introduction to Historical Inquiry

200)

PHIL 3360 (p. Formal Logic

200)

PHIL 4460 (p. Advanced Formal Logic

200)

PSYCH 2219 Research Methods

(p. 200)

SOC 3230 (p. Research Methods

200)

Philosophy

PHIL 3380 (p. Philosophy Of Science 200)

Select one of the	following in the philosophy of science and
technology:	
PHIL 2280 (p.	Minds, Brains, And Machines

200)
PHIL 2281 (p. Darwinism and the Philosophy of Biology

200)

PHIL 2282 (p. Philosophy of Science in Historical Perspecitve

200)

PHIL 3380 (p. Philosophy Of Science

200)

PHIL 4452 (p. Feminism And Science

200)

PHIL 4479 (p. Philosophy Of Cognitive Science

200)

PHIL 4480 (p. Topics In Philosophy Of Science

200)

PHIL 4482 (p. Philosophy Of Social Science

200)

PHIL 4483 (p. Topics In History And Philosophy Of Science

200)

PSYCH 3400 Conceptual and Historical Foundations of

(p. 200) Psychology

Science

Select 6 credit in the mathematical, physical, life, behavioral, or social 6 sciences. ¹

Total Hours 18

The science courses must be in addition to those satisfying the Gen Ed requirements and conditional upon their acceptance by the PST undergraduate advisor.

Prerequisites

Some courses required by the Minor in PST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

Alternative courses to satisfy the Philosophy requirements

Some courses may satisfy the Philosophy requirement even though they are not listed as such depending on their content. These include variable content courses, courses at the Honors College, history of philosophy courses, and courses in metaphysics. If a course that deals with some aspect of PST and should satisfy a requirement is not listed among those satisfying the requirements, you may do the following:

- 1. Obtain the description of what the course will cover.
- Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of PST.
- 3. Submit both to the PST undergraduate advisor for approval.

Bachelor of Liberal Studies Option:

A minor in PST may be combined with a minor in the History of Science and Technology and a capstone to form a Bachelor of Liberal Studies. The relevant capstones are either or HIST 4999. Since students taking

must have taken HIST 2999, it is suggested such students use to satisfy the Logic and Methodology requirement. Students can use the same course to satisfy the Logic and Methodology requirement of both minors, but cannot use the same science courses. Also, students that pursue the Bachelor of Liberal studies combining these two minors must pursue at least one science at an advanced level. Such a Liberal Studies program is easily combined, in turn, with a major in any science as a double major. This provides the student with a deeper historical and conceptual understanding of the science(s) he or she is studying.

Certificate of History and Philosophy of Science and Technology

The undergraduate Certificate Program in History and Philosophy of Science and Technology (HPST) is an interdisciplinary program requiring a minimum of 18 credits in HPST.

All required courses must be completed with a "C-"or higher. The satisfactory/unsatisfactory option may not be used towards the HPST Certificate. A minimum of 12 hours must be taken at 2000 or above with 9 of those hours being at 3000 or above. Courses in the upper division (3000 level and above) may satisfy requirements for the student's major, consistently with the major's requirements.

Requirements

History

S	Select two of the	following in History of Science and Technology:	6
	ECON 3800	History Of Economic Thought	
	HIST 2089	Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West	
	HIST 2770	Introduction To Transportation	
	HIST 2772	History Of Aviation In American Life	
	HIST 2773	Urbanization And Transportation	
	HIST 4143	Inquiries in World History	
	PHIL 4483	Topics In History And Philosophy Of Science	
	PSYCH 3400	Conceptual and Historical Foundations of Psychology	

Philosophy

PHIL 3380	Philosophy Of Science	3
Select one of the	following courses in the philosophy of science:	3
PHIL 2280	Minds, Brains, And Machines	
PHIL 2281	Darwinism and the Philosophy of Biology	
PHIL 2282	Philosophy of Science in Historical Perspecitve	
PHIL 3380	Philosophy Of Science	
PHIL 4452	Feminism And Science	
PHIL 4479	Philosophy Of Cognitive Science	
PHIL 4480	Topics In Philosophy Of Science	
PHIL 4482	Philosophy Of Social Science	
PHIL 4483	Topics In History And Philosophy Of Science	
PSYCH 3400	Conceptual and Historical Foundations of Psychology	

Science

Select two courses in the mathematical, physical, life, behavioral, or social sciences. ²

Total Hours 18

- Note: HIST 4143is offered under different topics; only the specific topics listed here counts as HPST.
- The science courses must be in addition to those satisfying the Gen Ed requirements (for students pursuing a degree at UM-St. Louis) and conditional upon their acceptance by the HPST Certificate Undergraduate advisor

Prerequisites

Some courses required by the Certificate Program in HPST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

Alternative courses to satisfy the History and Philosophy requirements

Some courses may satisfy either the History or the Philosophy requirement even though they are not listed as such, depending on what their content is. These include but are not limited to variable content courses, courses at the Honors College, history of philosophy courses, and courses in metaphysics. If a course that deals with some aspect of HPST and should satisfy a requirement is not listed among those satisfying the requirements, you may do the following:

- 1. Obtain the description of what the course will cover.
- Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of HPST.
- 3. Submit both to the HPST undergraduate advisor for approval.

Certificate in Neuroscience

The undergraduate Certificate Program in Neuroscience is an interdisciplinary program requiring 20 credits of training in Neuroscience. The Program provides a group of related courses capped by a research experience. The Program is likely to be of particular interest to students who want to pursue graduate or professional training, but it is intended to appeal to any student interested in Neuroscience.

Courses taken for the certificate in the lower division (1000 and 2000 level) may satisfy general education requirements (that is, breadth requirements), if they are approved general education courses. Courses in the upper division (3000 level and above) may satisfy requirements for the student's major, consistently with the major's requirements. All required courses must be completed with a "B-"average or higher. Pass/Fail grades to not count.

Most courses required by the Certificate Program in Neuroscience have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites.

Requirements

6

The two entry level courses

BIOL 1831	Introductory Biology: From Molecules To Organisms	5
PSYCH 2211	Introduction To Biological Psychology	3
Select one of the	following statistics courses:	3
BIOL 4122	Biometry	

ı	MATH 1320	Applied Statistics I	
	PSYCH 2201	Psychological Statistics	
,	SOC 3220	Social Statistics	
Ele	ectives		
Sel	ect two of the f	ollowing. 1	6
	BIOL 3102	Animal Behavior	
	BIOL 4822	Introduction To Neuroscience	
(CHEM 4712	Biochemistry	
		Introduction To Artificial Intelligence	
		Introduction to Machine Learning	
	PHIL 2280	Minds, Brains, And Machines	
	PHIL 3378	Philosophy of Mind	
	PHIL 4478	Topics In Philosophy Of Mind	
	PHIL 4479	Philosophy Of Cognitive Science	
	PHYSICS 4347	Biophysics Of Imaging	
ı	PSYCH 4300	Introduction To Psychopharmacology: Drugs And Mental Illness	
	PSYCH 4314	Behavioral Neuroscience	
ı	PSYCH 4330	Hormones, The Brain And Behavior	
	PSYCH 4349	Human Learning And Memory	
Sel	ect at least 3 c	redits from two semesters of research experience ²	3
	BIOL 4905	Research	
(CHEM 3905	Chemical Research	
(CMP SCI 4880	Individual Studies	
ı	PHIL 4450	Special Readings In Philosophy	
	PHYSICS 3390	Research	
	PSYCH 3390	Directed Studies	
Tot	al Hours		20

- At least one elective must be taken outside the student's major
- This requires completion of a Directed Research Assistantship with a Neuroscience faculty member within any of the participating departments. The research project must be approved in advance by the undergraduate advisor with the assistance of a committee of Neuroscience faculty. It is expected that this research will lead to a presentation at the UM-St. Louis Neuroscience seminar and the Undergraduate Research Symposium.

Graduate Studies

Expected Learning Outcomes

- Acquire advanced knowledge of traditional philosophical issues in the western tradition.
- Develop critical thinking skills based on knowledge of the standards governing logical reasoning.
- Acquire familiarity with philosophical issues that arise in some other disciplines (e.g. biology, art, education, etc.).
- Acquire a basic understanding of ethical principles and their role in resolving ethical disputes.
- Acquire the knowledge and skills required to write a paper identifying a philosophical issue and presenting arguments supporting a thesis for resolving it.

Master of Arts in Philosophy

To earn a M.A. in philosophy, students must complete at least 30 hours of graduate-level course work. In addition, students must write a thesis, for which they must take three to six credit hours of Thesis Research. Entering students must demonstrate a competence in logic, either by having passed the relevant course prior to admission or by taking PHIL 5561 (p. 200): Graduate Formal Logic here at UMSL. Students should take PHIL 5400 (p. 200): Proseminar in Philosophy in the first year of residency. At least two-thirds of the course work must be completed in residence at UMSL. In addition, the courses taken are subject to two distribution requirements:

- 1. At least half of the courses must be at the 5000 level.
- Two courses (6 credit hours) must be chosen from each of the following four subject areas:
 - · Value Theory
 - · History of Philosophy
 - · Logic/Philosophy of Science
 - Epistemology/Metaphysics

2+3 B.A. and M.A. in Philosophy

The Combined B.A./M.A. Program in Philosophy provides an opportunity for students of recognized academic ability and educational maturity to fulfill integrated requirements of undergraduate and master's degree programs in three years from the beginning of their junior year. When all the requirements of the B.A./M.A. program have been completed, students will be awarded both the B.A. and M.A. degrees. With a carefully designed program, a student can earn both degrees within as few as ten semesters.

The Combined Program requires a minimum of 138 credit hours, of which at least 30 must be at the upper division level course numbers in the 4000-5999 range (excluding PHIL 5495 (p. 200)). In qualifying for the B.A., students must meet all university and college requirements, including all the requirements of the regular undergraduate major in philosophy described above. Students will normally take PHIL 3360 (p. 200): Formal Logic and two courses in the 3301-3307: History of Philosophy sequence in their junior years, along with electives. Any courses still needed to satisfy college foreign language and expository writing requirements would also be taken during this year. PHIL 4491 (p. 200): Senior Seminar and more specialized courses are taken in the senior year. In the fifth year, students take advanced electives and such required courses as are needed to fulfill remaining university. Graduate School. and departmental requirements for the M.A. This includes satisfactory completion of 30 graduate credit hours, at least 18 of which must be in courses numbered above 5000 and among which must be at least three in each of the four subject areas listed for the regular M.A. program, and one of which must be PHIL 5400 (p. 200): Proseminar in Philosophy. Up to 12 graduate credit hours may be applied simultaneously to both the B.A. and M.A. requirements. In addition to the above coursework, students must also write a thesis, in which case at least three hours must be taken in PHIL 5495 (p. 200). Students should apply to the Graduate Committee for admission to the Combined B.A./M.A. Program in Philosophy the semester they will complete sixty undergraduate credit hours or as soon thereafter as possible. It is also recommended that students complete the foreign language requirement and the junior-level writing requirement before applying. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required for consideration.

Students should apply to the Graduate Committee for admission to the Combined B.A./M.A. Program in Philosophy the semester they will complete sixty undergraduate credit hours or as soon thereafter as possible. It is also recommended that students complete the foreign language requirement and the junior-level writing requirement before applying. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required for consideration.

Students will be admitted to the Combined Program under provisional status until they have completed fifteen credit hours in it with a grade point average of 3.0 or higher. After the completion of the provisional period, and with the recommendation of the Graduate Committee, students can be granted full admission into the program. Students must maintain a grade point average of 3.0 or higher throughout the Combined Program. Students who officially withdraw from the Combined Program who have successfully completed all the requirements for the B.A. degrees will be awarded the B.A. degree.

Philosophy Requirements for Students in the 2+3 Program

- 1. To be taken in the junior year:
 - Select four courses (12 credit hours) from the following:
 - a. PHIL 3360 (p. 200): Formal Logic
 - b. Two courses in the History of Philosophy, each at the 2000 level or above.
 - c. One additional Philosophy course, at the 2000 level or above.
- 2. To be taken in the senior year:
- 3. PHIL 4491 (p. 3 Senior Seminar 200) PHIL 4445 (p. Metaphysics 200) or PHIL 4440 (p. Theories Of Knowledge Two History courses, each at the upper division 6 One course from the PHIL 4470 (p. 200)-PHIL 4487 (p. 200) 3 sequence 3 Select one of the following: PHIL 4430 Social And Political Philosophy (p. 200) PHIL 4435 Classical Ethical Theory (p. 200) **PHIL 4438** Recent Ethical Theory (p. 200) **Total Hours**
- 4. To be taken in the final year of the program:
 - Six courses (18 credit hours)
 - a. At least five of these courses must be at or above the 5000 level.
 - b. Courses must be selected so that the student has taken at least one and preferably two courses from each of the four subject areas in the course of completing the 2 + 3 program:
 - · Value Theory
 - · History of Philosophy

- · Logic/Philosophy of Science
- Epistemology/Metaphysics
- c. PHIL 5400 (p. 200): Proseminar in Philosophy

Cooperative arrangement with Saint Louis University.

The strengths of the UMSL Department of Philosophy are complemented by those of the Saint Louis University Philosophy Department, which has strengths in the history of philosophy as well as in philosophy of religion. To enhance students' opportunities for instruction and expertise, the two departments have worked out a cooperative arrangement that permits graduate philosophy students on each campus to take up to four courses at the partner institution. In any given semester, UMSL graduate students must take at least half of their courses at their home institution. Students admitted to the M.A. program on a probationary basis must take all their courses at UMSL during their first semester.

Courses

PHIL 1021 Choice and Chance: 3 semester hours

Prerequisites: A score of 22 or higher on the ACT Math sub-test; or a grade of C or better in a two- or four-year college intermediate algebra course; or a satisfactory score on the UMSL Math Placement Examination, obtained at most one year prior to enrollment in this course. Same as MATH 1021. This course provides an introduction to inductive logic and the theory of probability in an organized and systematic way, so as to give students tools for more effective decision-making. We will introduce the probability calculus, basic concepts of utility theory, decision theory and different approaches to understanding probability. This course is designed to be accessible to students of all levels. Satisfies mathematics proficiency.

PHIL 1030 Present Moral Problems: 3 semester hours

This course will explore a range of ethical dilemmas with an eye towards living the best life. How should I live? What actions are right and wrong? How should I treat myself and others? In this class, we will consider these and other issues by investigating practical problems in daily life including: human rights, the environment, hunger and poverty, war and violence, racial and ethnic discrimination, gender roles and marriage, abortion, and euthanasia.

PHIL 1090 Philosophy Looks at the Arts: 3 semester hours

This online course will explore the distinct resources of various arts - the raw materials of each, what each can represent, express, convey - and key differences among them. After an introductory unit devoted to art in general, the course will present eight units examining the arts of painting, photography, sculpture, architecture, music, literature, drama , and film. The course will employ a variety of instructional materials. These include posted essays, streaming video, readings from an assigned text, and participation on an interface discussion board.

PHIL 1091 Great Philosophers: 3 semester hours

This online course introduces philosophy through a survey and examination of the ideas of fifteen of the most important figures in the history of the subject. From Socrates to Nietzsche, the questions, answers, and lives of the great philosophers are explored in a multimedia context. This course does not satisfy any of the requirements for philosophy major or minor.

PHIL 1110 Western Philosophy I: Antiquity To The Renaissance: 3 semester hours

Lectures and discussions tracing the development of western philosophy from its beginnings among the pr-Socratics through the Middle Ages and Renaissance. Philosophical ideas will be examined in the cultural and historical context: the Greek city-state, the rise of Christianity, etc.

PHIL 1111 Western Philosophy II: Descartes To The Present: 3 semester hours

Lectures and discussions on the development of western philosophy from Decartes (1596-1650) to the present. Philosophical ideas will be examined with an eye to their historical and cultural setting: the rise of modern science, the industrial revolution, the rise of capitalism, etc.

PHIL 1120 Asian Philosophy: 3 semester hours

Critical study of selected philosophical classics of India and China.

PHIL 1125 Islamic Philosophy: 3 semester hours

An introduction to arabic philosophy in the islamic classical period (roughly from the mid-ninth through the twelfth centuries). We consider the philosophical and theological background, and then examine the thought of such notable Islamic philosophers as al-Kindi, Ibn Sina, al-Ghazali, and Ibn Rushd. Topics treated typically include proofs for the existence of God, whether the world is eternal or had a beginning, the nature of the soul and whether it is immortal, and the distinction between essence and existence. This course fulfills the cultural diversity requirement.

PHIL 1130 Approaches To Ethics: 3 semester hours

A study and discussion of representative topics in moral philosophy such as moral skepticism, moral objectivity, theories of obligation and value, evaluation of social institutions and the relation between morality and science. Traditional and contemporary writers will be considered.

PHIL 1150 Introduction to Philosophy: 3 semester hours

A study and discussion of representative topics in philosophy such as free will and determinism, concepts of mind and body, the basis of value judgments, knowledge and belief, and the possibility of constructing a world view.

PHIL 1151 Love 101: 3 semester hours

A critical review of what media personalities, philosophers, criminal justice experts, medical experts, neuroscientists, and psychologists have said about love and its place in our lives. Included will be such topics as the neuroscience of love, love across culture, love and commitment issues, marriage and the "seven-year itch," jealousy, domestic violence, and verbal abuse. Larger questions will include the role of love in the good life; the ethics of love; the psychological consequences of obsession, breakups and divorce; arranged marriages vs. freely chosen love; and the morality of laws that affect relationships between loving partners.

PHIL 1160 Critical Thinking: 3 semester hours

An introduction to the language and logical structure of arguments, the principles of sound reasoning, and application of these principles in a variety of contexts.

PHIL 1163 Disagreement, Difference, Diversity: 6 semester hours
Same as ANTHRO 1163. This interdisciplinary course will combine
material from philosophy, anthropology, and sociology to examine the
ways we encounter and accommodate disagreement in our daily lives.
The unifying thread is our ability to deal with various sorts of opposition:
differences of opinion, differences in practice, and differences in how we
construct and address both biological and cultural variation. The course
will combine units on informal logic and applied ethics from philosophy
together with units on the social construction of difference and the
understanding of human diversity from anthropology and sociology. This
course will be worth 6 SCHs.

PHIL 1175 Arts And Ideas: 3 semester hours

Same as ART HS 1175, ENGL 1175, HIST 1175, M H L T 1175, and TH DAN 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated for credit.

PHIL 1178 Superhuman Mind: 3 semester hours

As a study of people with special neurological talents, this course will look at cases of people who became geniuses by accident, human echolocation (deaf people who can detect sound), lucid dreaming, telepathy used to solve crimes, and more.

PHIL 1180 Science vs. God: 3 semester hours

This course examines whether religion and science are compatible, discusses the sceince-religion debate historically, and broaches philosophical issues surrounding belief, especially whether belief should be based in empirical evidence or in faith. Following these introductory course sessions, the class will discuss, in detail, topics in science and religion, including creation versus evolution; human nature (including abortion and stem cell research); the nature of sexuality and gender; the science of religion; morality; the environment from a religious perspective; meaningfulness in the universe; and finally, evidence for or against the afterlife, existence of a divinity, and divine providence.

PHIL 1185 Philosophy Of Religion: 3 semester hours

A philosophical investigation of such problems as the nature of religious faith and experience, the relation of faith and reason, alternative concepts of deity and the problem of evil.

PHIL 2250 Philosophy And Current Issues: 3 semester hours

A careful examination of such current social controversies as women's liberation, the ethics of abortion, public accountability of holders of high offices, and the subtler forms of racism and other prejudices. Although there is no formal prerequisite, it is recommended that students have taken, or be concurrently enrolled in, at least one other philosophy course.

PHIL 2251 Sexual Ethics: 3 semester hours

A critical review of what philosophers, both classical and contemporary, have said about sexual experience and its place in our lives. Included will be such topics as sexual desire, sexual perversion, love and commitment, marriage and adultery, larger questions might include that role of sexual experience in the good life, issues of sexual privacy, and the morality of laws which regulate sexual activity.

PHIL 2252 Philosophical Foundations Of Criminal Justice: 3 semester hours

Same as CRIMIN 2252. This course will address fundamental conceptual and ethical issues that arise in the context of the legal system. Questions may include: How does punishment differ from pre-trial detention? How, if at all, can it be justified? Is the death penalty ever justified? When is it morally permissible for juries to acquit defendents who are legally guilty? Is plea bargaining unjust? why might pe people be morally obligated to obey the laws? Are laws restricting civil liberty (e.g. laws against abortion, homosexuality, or drug use) permissible?.

PHIL 2253 Philosophy And Feminism: 3 semester hours

Same as GS 2253 A critical examination of what various philosophers have said about issues of concern to women. Sample topics include oppression, racism, women's nature, feminity, marriage, motherhood, sexuality, pornography, the ethics of care.

PHIL 2254 Business Ethics: 3 semester hours

A critical survey from the perspective of moral theory of businesses and business practices. Topics vary but usually include some of the following: Whether the sole moral obligation of businesses is to make money; whether certain standard business practices, e.g., the creation of wants through advertising, are moral; whether businesses ought to be compelled, e.g., to protect the environment or participate in affirmative action programs.

PHIL 2255 Environmental Ethics: 3 semester hours

Examines such issues as the value of wilderness, our duties to animals and the natural world, pollution and development, environmental justice.

PHIL 2256 Bioethics: 3 semester hours

Same as GERON 2256. An examination of ethcial issues in health care practice and clinical research and in public policies affecting health care. Topics include: abortion, euthanasia, health care, experimentation, informed consent and the right to health care.

PHIL 2257 Happiness and the Meaning of Life: 3 semester hours

This course is an accessible introduction to the historical and contemporary perspectives on happiness and the meaning of life in philosophy. It examines the nature of happiness by focusing on three major theories: happiness as pleasure, happiness as excellence and happiness as desire satisfaction. Other issues examined may include the relevance of virtue for happiness, the experience machine argument, the best way to pursue happiness as a personal or a policy goal, and other related topics.

PHIL 2258 Medicine, Values, And Society: 3 semester hours

Social, conceptual, and policy issues connected with medicine form the focus of the course. Topics may include: (1)role played by race & gender in design of research and distribution of care; (2) whether diseases are socially constructed categories reflecting the values of society; (3) development of social policies that offer universal access to health care; (4) the legitimacy of using psychotropic drugs to enhance life, rather than treat the disease. The course differs from Bioethics by emphasizing policy issues and their conceptual basis. Content of this course may vary.

PHIL 2259 Engineering Ethics: 3 semester hours

An examination of ethical issues in engineering using professional engineering codes as a starting point. The course will have a problem solving orientation, focusing on the analysis of particular cases. Actual high-profile cases such asthe Challenger disaster will be considered, as well as hypothetical cases illustrating the more commonly encountered moral problems in engineering (such as accepting gifts from venders). Topics include the engineer/manager relationship, engineers and the environment, honesty in engineering, and risk, safety, and liability.

PHIL 2276 Philosophy of Film: 3 semester hours

Critical study of such issues as film¿s relation to photography, shots and editing, documentary vs. fiction films, cinematic narration, our identification with film characters, criticism and evaluation.

PHIL 2280 Minds, Brains, And Machines: 3 semester hours

An introduction to basic philosophical issues in cognitive science. General topics include minds as computers; computers as minds, or the possibility of artificial intelligence that is truly intelligent; relationship between mental function and brain function. Some areas of current research, such as reasoning, vision, and emotion.

PHIL 2281 Darwinism and the Philosophy of Biology: 3 semester hours

Prerequisites: Six hours in Philosophy, graduate standing, or consent of instructor. Examines Darwin's theory of evolution by natural selection and its philosophical consequences. Besides the theory itself, topics may include (but are not limited to): how we can test evolution and what the evidence is for it; the design argument; adaptationism; evolutionary psychology; evolution and mortality; the fact-value distinction; nature versus nurture; differences between humans and other animals; evolution and human history; genetic engineering and possible futures.

PHIL 2282 Philosophy of Science in Historical Perspecitve: 3 semester hours

This course considers the history and philosophy of ancient, medieval and early modern science, with a focus on theories of scientific methodology, biology and physics. Figures treated may include Pythagoras, Hippocrates, Plato, Aristotle, Euclid, Galen, Harvey, Copernicus, Kepler, and Newton. Topics may include Hippocratic and Galenic medicine; geocentric and heliocentric astronomies; theories of induction; scientific realism vs. instrumentalism; and the role of logic and mathematics in ancient and medieval sciences. Content of this course may vary.

PHIL 2283 Markets & Morals: 3 semester hours

Prerequisites: MATH 1030, or equivalent. This course will explore some moral issues connected with economic markets: the reasons for and against promoting free markets and free trade; whether we should be able to buy and sell anything or are there goods and services that should be above market transactions; whether free markets make us happier; how free markets are related to individual freedom; whether the efficacy of markets requires individuals to be moral; what moral grounds there are, if any, for capitalism, libertarianism, socialism, and Marxism.

PHIL 3286 International Business Ethics: 3 semester hours
Same as INTL BUS 3286. The course will deal with moral issues that
are raised by the increasing globalization of business. Apart from the
general issue of whether this globalization is itself a good thing, we will
discuss such issues as child labor, working conditions, safety standards,
environmental policies, bribery and other "corrupt" practices, respect for
intellectual property, etc. Frequent short papers will be assigned.

PHIL 3301 Ancient Philosophy: 3 semester hours

Freshman admitted by consent of department. The principle philosophical doctrines of the ancient world, with special emphasis on the philosophies of Plato and Aristotle. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy

PHIL 3302 Medieval Philosophy: 3 semester hours

A critical study of the important philosophies of the period from August to the Renaissance. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3303 Early Modern Philosophy: 3 semester hours

Principal figures in the development of rationalism, empiricism and skepticism in early modern Europe, from Descartes through Hume. ALthough there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course,.

PHIL 3304 Kant And Nineteenth Century Philosophy: 3 semester hours

Study of Kant and such major nineteenth century figures as Hegel and Nietzsche, Mill and Pierce. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3305 Twentieth Century Philosophy: 3 semester hours

Representative topics in contemporary philosophy, with readings selected from pragmatism, logical positivism, linguistic analysis and existentialism. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3307 American Philosophy: 3 semester hours

Prerequisite: Six hours of philosophy or consent of instructor. A study of selected American philosophers.

PHIL 3360 Formal Logic: 3 semester hours

An introductory study of logical truth and deductive inference, with emphasis on the development and mastery of a formal system.

PHIL 3365 Inductive Logic: 3 semester hours

An examination of the techniques for evaluating inferences which do not fit deductive frameworks. Examples will be drawn from at least the physical sciences, medicine, ethics, law and everyday life.

PHIL 3369 The Marxist Heritage: 3 semester hours

(Same as Political Science 3690) Study of Marx and leading Marxists, designed to evaluate their influence on recent political, economic, and social thought and institutions.

PHIL 3374 Philosophy Of Art: 3 semester hours

Sames as ART HS 3374. A critical study of such issues as the definition of art, the nature of aesthetic experience, meaning and interpretation in the arts, art and emotion, value in art.

PHIL 3378 Philosophy of Mind: 3 semester hours

Prerequisites: Three hours of philosophy or consent of instructor. An introduction to philosophical issues pertaining to the mind. Topics may include how the mind relates to the body, how the mind represents the world, how the mind works, consciousness, and free will.

PHIL 3380 Philosophy Of Science: 3 semester hours

An examination of science: what makes science special? Topics may include (but are not limited to): empiricism and of induction; paradigms and revolutions; explanation, causation and laws; realism versus instrumentalism; critiques of science such as those of feminism or postmodernism; and reductionism - ultimately is it all just physics?.

PHIL 4401 Plato: 3 semester hours

Prerequisites: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. A study of selected Platonic dialogues.

PHIL 4402 Aristotle: 3 semester hours

Prerequisites: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. A selective study of Aristotle's major works.

PHIL 4405 Rationalism: 3 semester hours

Prerequisites: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. An examination of the philosophies of such major figures as Descartes, Spinoza, and Leibniz.

PHIL 4406 Empiricism: 3 semester hours

Prerequisites: Six hours of philosophy, a course in Early Modern philosophy recommended, graduate standing, or consent of instructor. An examination of the philosophies of such major figures as Locke, Berkeley, and Hume.

PHIL 4407 Kant: 3 semester hours

Prerequisites: Six hours of philosophy, PHIL 3304 or equivalent recommended, graduate standing or consent of instructor. A systematic study of the Critique of Pure Reason.

PHIL 4408 Hegel: 3 semester hours

Prerequisites: Six hours of philosophy, PHIL 3304 or equivalent recommended, graduate standing, or consent of instructor. A critical study of the writings and influence of Hegel.

PHIL 4410 Topics and Figures in the History of Philosophy: 3 semester hours

Prerequisites: Nine hours of philosophy, graduate standing, or consent of instructor. In-depth examination of a particular topic, significant figure or philosophical movement from the history of philosophy. The philosopher or movement to be studied will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and department chair.

PHIL 4420 Topics In Non-Western Philosophy: 3 semester hours

Prerequisites: PHIL 1120, graduate standing of consent of instructor. An extensive exploration of issues in some particular non-Western tradition (Islamic, Indian, or Chinese). This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 4421 The Analytic Tradition: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. PHIL 3305 and PHIL 3360 strongly recommended. Course studies in depth the development of analytic philosophy with a broad emphasis on its style and substance. Topics may include early writings that set the stage for this tradition (Frege, Moore, Russell), the basic texts of Logical Positivism (Carnap, Schlick, Neurath, Hempel), and later responses including reassessment of the doctrine, the revival of naturalism, and the "death" of philosophy (Wittgenstein, Quine, Sellars). This is a variable content course that may be taken again for credit with consent of the instructor and the department chair.

PHIL 4430 Social And Political Philosophy: 3 semester hours

Prerequisites: Six credit hours of philosophy required or consent of instructor. This course will cover several classic works of political theory, with a particular focus on the nature of justice, the proper extent of liberty, and social contract arguments for the legitimacy of state authority. Readings from Plato, Hobbes, Locke, Hume, Rousseau, Bentham, Mill, Marx and Rawls.

PHIL 4435 Classical Ethical Theory: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Significant contributions to moral philosophy from Plato and Aristotle to Bentham and Mill.

PHIL 4437 Metaethics: 3 semester hours

Prerequisites: 6 credit hours of Philosophy. This course deals with questions regarding the foundations of ethics and the status of our ethical judgments about what's right and wrong, good and bad. The course will consider contemporary approaches to issues such as moral motivation, moral reasons, moral explanations, moral disagreement, moral knowledge, and moral supervenience, as well as various debates between realists and antirealists, and between cognitivists and expressivists.

PHIL 4438 Recent Ethical Theory: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. A study of major contributions to twentieth-century ethics, including works by such writers as Moore, Dewey, Ross, Stevenson, Hare, and Rawls.

PHIL 4439 Topics In Ethical Theory: 3 semester hours

Prerequisites: PHIL 4435, PHIL 4438, nine hours of philosophy, graduate standing, or consent of instructor. Formulation and evaluation of major theories in normative ethics, metaethics, and axiology. Topics include: egoism, moral realism, act and rule utilitarianism, and varieties of naturalism and non-naturalism in ethics. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4440 Theories Of Knowledge: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. An examination of concepts and problems involved in the characterization of knowledge. Specific topics will vary, but will usually include knowledge, belief, skepticism, evidence, certainty, perception, truth, and necessity.

PHIL 4445 Metaphysics: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. An examination of selected metaphysical topics such as substance, universals, causality, necessity, space and time, free will, being, and identy.

PHIL 4450 Special Readings In Philosophy: 1-3 semester hours

Prerequisite: Consent of Department Independent study through readings, reports, and conferences. This is a content course and may be taken again up to a total of 6 credit hours with consent of instructor and department chair.

PHIL 4451 Special Topics In Philosophy: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. A critical study of classical and/or contemporary contributions to a selected topic in philosophy. The topic to be considered will be announced prior to registration. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4452 Feminism And Science: 3 semester hours

Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Same as GS 4452. This course will explore major themes and issues in feminist science scholarship, a body of research that focuses on the relationship between science and gender. Feminist research in the philosophy and history of science, and in the bilogical sciences, are emphasized. Issues include: the nature of objectivity, evidence, and truth; the factors that contribute to the acceptance or rejection of research hypothesis and theories; the nature and consequences of science's cognitive authority; and the relationship between science and values.

PHIL 4457 Media Ethics: 3 semester hours

Same as MEDIA ST 4357. Prerequisites: 9 hrs of philosophy or 9 hrs communication or consent of instructor. This course is concerned with some of the issues that arise from the intersection of ethics and modern media communications. Attention is given to some of the more specific concerns of media ethics, such as truth, honesty, fairness, objectivity and bias; personal privacy and the public interest; advertising; conflicts of interest; censorship and offensive or dangerous content (pornography, violence). Particular attention will be given to problems posed by the development of personal computer communications through bulletin boards, on-line serives, and the Internet.

PHIL 4458 Ethics And The Computer: 3 semester hours

Prerequisites: Six hours of coursework above the level of MATH 1030 in Math/Computer Science or at least six hours of philosophy or consent of instructor. An examination of ethical issues concerning the use of computers generally and software engineering in particular. Aims at developing awareness of these issues, and skills for ethical decision-making regarding them through careful, analytical methods. Typical issues include privacy, intellectual property, computer fraud, and others.

PHIL 4460 Advanced Formal Logic: 3 semester hours

Prerequisites: PHIL 3360, graduate standing, or consent of instructor. Rigorous study of major developments in contemporary logic. Emphasis is given to theoretical problems and some attention is devoted to philosophical issues arising from logic.

PHIL 4465 Theory Of Decisions And Games: 3 semester hours

Prerequisites: Six hours of Philosophy and junior standing, or Political Science 4601 (or the equivalent) or consent of the instructor. A study of rational decision-making, including games against nature, zero-sum games, and social choices. Topics will include the following: expected utility maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's theorem on the impossibility of a social welfare function. Parts of the course are technical in nature; a prior course in mathematics (e.g., finite mathematics, calculus, statistics or an economics course with a mathematical component), symbolic logic, or some other course with comparable mathematical content. (Same as Political Science 4060).

PHIL 4470 Topics In Philosophy Of Language: 3 semester hours

Prerequisites: Six hours in philosophy, graduate standing, or consent of instructor. Intensive examination of selected problems encountered in developing philosophical accounts of truth, reference, propositional attitudes, and related concepts. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 4474 Topics In Aesthetics: 3 semester hours

Prerequisites: PHIL 3374, graduate standing or consent of instructor. Selected topics, such as vision and representation, musical aesthetics, and recent theorists. This is a variable content course that may be taken again for credit with the approval of the instructor and the department chair.

PHIL 4478 Topics In Philosophy Of Mind: 3 semester hours

Prerequisites: PHIL 3378 or six hours of other philosophy courses or consent of instructor. An examination of selected topics at the interface of philosophical and psychological research. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4479 Philosophy Of Cognitive Science: 3 semester hours

Prerequisites: PHIL 3378 or PHIL 4478 or nine hours of other philosophy courses or consent of instructor. An exploration of the philosophical foundations of cognitive science, a cooperative effort of philosophers, cognitive psychologists, brain scientists, computer scientists, and others to understand the relationship between the mind and the brain.

PHIL 4480 Topics In Philosophy Of Science: 3 semester hours

Prerequisites: Consent of the instructor. An advanced introduction to the philosophy of science for advanced undergraduates in philosophy and graduate and professional students. Topics covered include scientific method, confirmation, explanation, the nature of theories, scientific progress, science criticism, ethics in science, and science and religion.

PHIL 4482 Philosophy Of Social Science: 3 semester hours

Prerequisites:Six hours of philosophy or consent of instructor. An intensive examination of selected topics such as the nature of explanation in social science versus natural science, interpretation theory, and the postmodernism debate (e.g. Habermas, Foucault, clifford). This course may be repeated for credit on approval by the department.

PHIL 4483 Topics In History And Philosophy Of Science: 3 semester hours

Prerequisites: Six hours of philosophy, (PHIL 3380 strongly recommended), graduate standing, or consent of instructor. Examines in depth a particular topic or topics from either the history or philosophy of science. This is a variable content course and may be taken again for credit with the consent of the instructor and department chair.

PHIL 4487 Topics In Philosophy Of Law: 3 semester hours

Same as CRIMIN 4487. Prerequisites: CRIMIN 1100 and three hours of philosophy, graduate standing, or consent of instructor. An intensive study of recent philosophical debate about such issues as the authority of law, legal equality and justice, legal responsibility, self-determination and privacy, and legal punishment. This is a variable content course and may be taken again for credit with consent of the instructor and the department chair.

PHIL 4491 Senior Seminar: 3 semester hours

Prerequisites: Senior standing; at least 12 hours of philosophy at the 2000 level or above; or consent of instructor Intensive study of a central philosophical problem. The course emphasizes the fundamentals of philosophical writing and scholarship. Students will write a major paper to be evaluated by two members of the Philosophy Department and the course instructor.

PHIL 5400 Proseminar In Philosophy: 3 semester hours

Prerequisites: Graduate Standing Required of all entering Graduate Students in the Fall_Semester of the first full year of residency. Topics vary. Other graduate students may take this course with the permission of the instructor and the director of Graduate Studies in Philosophy. Students will be expected to write papers, give presentations, and join in class discussion.

PHIL 5403 Seminar on Themes in the History of Philosophy: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or school of thought in the history of philosophy. Topics may include but are not limited to historical theories of science, Hellenistic philosophy, Neoplatonism, and historical approaches concerning the nature of time. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5410 Seminar In Significant Figures In Philosophy: 3 semester hours

Prerequisites: Graduate Standing In depth study of the work of a single philosopher. The philosopher selected will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5421 The Analytic Tradition: 3 semester hours

Prerequisites: Graduate Standing or consent of the instructor. This course will focus on selected topics within the range of analytic philosophy. Topics may be historical (e.g. development of logicism, the reassessment of positivism) or contemporary, e.g., issues in philosophical semantics or post-analytic conceptions of philosophy.

PHIL 5478 Seminar In Philosophy Of Mind: 3 semester hours

Prerequisites: Graduate standing Topics may include functionalism and physicalism; representation and the nature of propositional attitudes such as belief, desire, and the various emotions; folk psychology and knowledge of other minds; introspection and knowledge of one's own mind; conscious and unconscious mental states and processes. This is a variable content course and may be taken again for credit with consent of the instructor and the department chair.

PHIL 5495 Thesis Research: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. May be repeated once for credit with the consent of the instructor and the department chair.

PHIL 5521 Seminar In Analytic Philosophy: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Intensive study of selected topics, texts, or individuals in historical or contemporary analytic philosophy. Topics may include, but are not limited to, Frege semantics, Russell's theory of definite descriptions, logical positivism, Wittgenstein's philosophy of language. Quine on the analytic/ synthetic distinction, Kripke possible-world semantics, theories of propositions, the analysis of knowledge, contextualism in epistemology and language, relative semantics, epistemic two-dimensionalism, conceivability vs. possibility, three-dimensionalism vs. four-dimensionalism, presentism vs. eternalism, and applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5530 Seminar In Social And Political Philosophy: 3 semester hours

An intensive study of contemporary philosophical debate about such issues such as civil liberty, economic justice, political decision-making, and state authority. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5533 Philosophy Of Law: 3 semester hours

Prerequisite: Graduate standing or consent of instructor. Examination of origins of law and the basis for legal obligation. Specific consideration of the justification of punishment, morality and law, and legal reasoning. (Same as CCJ 5533).

PHIL 5537 Seminar in Metaethics: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. The course deals with questions regarding the foundations of ethics and the status of our ethical judgements about what's right and wrong, good and bad. The course will consider contemporary approaches to issues such as moral motivation, moral reasons, moral explanations, moral disagreement, moral knowledge, and moral supervenience, as well as various debates between realists and antirealists, and between cognitivists and expressivists.

PHIL 5538 Seminar In Ethical Theory: 3 semester hours

Prerequisites: Graduate standing or consent of the instructor. In this course we will seek to answer questions from normative ethics or methaethics, which may include: What do all morally wrong actions have in common? What does the word "wrong" mean? How, if at all, can we verify moral judgements? Are any moral judgements valid for all societies? Do we always have good reason to be moral?.

PHIL 5540 Seminar In Epistemology: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or individuals in epistemology. Topics may include (but are not limited to) theories of justification, naturalism in epistemology, and conceptions of knowledge. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5545 Seminar In Metaphysics: 3 semester hours

Prerequsites: Graduate standing Intensive study of a selected topic or problem area in metaphysics, e.g. mind-body identity, nature of the self, or conception of time. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5546 Seminar In Modality: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Intensive study of selected topics, texts, or individuals in modality. Topics may include (but are not limited to): Kripke semantics, Lewis' genuine modal realism about possible worlds, linguistic ersatzism, epistemic two-dimensionalism, conceivability vs. possibility, theories of epistemic modals, theories of propositional attitude reports, theories of knowability, provability, and computability, modal paradoxes and applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5551 Special Readings In Philosophy: 1-3 semester hours

Prerequisites: Graduate Standing, written consent of instructor Independent study through readings, reports, and conferences. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5560 Seminar In Logic: 3 semester hours

Prerequisites: Graduate standing A focused study of topics in logic and/ or its history. Representative topics include: Aristotelian logic, modal logic, the Godel incompleteness theorems, relevance logic, paraconsistent logic, free logic. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5561 Graduate Formal Logic: 3 semester hours

Prerequisite: Graduate standing; permission of the department A rigorous introduction to formal logic that includes sentential calculus, predicate logic, and completeness proofs. May be taken for graduate credit only with permission of the graduate advisor and chair.

PHIL 5570 Seminar In Philosophy Of Language: 3 semester hours Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or individuals in the philosophy of language.

of selected topics, texts, or individuals in the philosophy of language. Topics may include (but are not limited to): theories of indexicals and demonstratives, theories of proper names and descriptions, sense and reference, compositionality, natural language semantics, syntax, pragmatics, applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5579 Seminar In Philosophy Of Cognitive Science: 3 semester hours

Prerequisites: Graduate standing General topics include the role of computation in cognitive science, the merits of symbolic computation and connectionism, the aims and methods of artificial intelligence, and the relationship between cognitive science and our everyday understanding of people. Specific topics may include perception, reasoning, consciousness, language, emotion, and will. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5580 Seminar In Philosophy Of Science: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. Focus is on recent issues and controversies. Topics may include: theories and observation, models of explantion, confirmation, realism and antirealism, empiricism & naturalism, "social construction" and feminist views of science. This is a variable content course and may be taken again with the consent of the instructor and the department chair.

PHIL 5582 Seminar In Philosophy Of Social Science: 3 semester hours

Prerequisites: Graduate Standing or consent of instructor. Intensive examination of selected topics, such as the nature of explanation in social science, rationality, value-freedom and objectivity, or relation of social to natural sciences. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5590 Philosophical Issues In Other Disciplines: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. An examination of selected philosophical issues in disciplines other than philosophy. One or more such disciplines as history, political science, psychology, sociology, biology, chemistry, physics, or mathematics will be chosen. The discipline(s) and issues selected will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

Physics and Astronomy

General Information

Degrees and Areas of Concentration

The Department of Physics and Astronomy offers superb course work leading to the B.A. in physics, the B.S. in physics, and in cooperation with the College of Education, the B.A. in physics with teacher certification and the B.S. in education with an emphasis in physics. The Department offers meritorious students opportunities to participate in teaching and research to help prepare them for the independent effort required in industry or graduate school. The Department's faculty members have a diversity of interests and are active in various experimental and theoretical research areas. Students successfully completing this program will obtain an understanding of basic physics concepts, mathematical and problem-solving skills needed to solve basic physics problems, experimental skills in physics, astrophysics, or biophysics, and the ability to analyze and interpret scientific data and write scientific papers or reports.

The Master of Science in physics program combines a sound basis in the fundamental areas of classical and modern physics from both a theoretical and an applied perspective. The program is designed to enable students with undergraduate backgrounds in physics or other technical areas to further their professional development and maintain and improve their technical development. The program is offered almost entirely in the evening to serve students who are employed locally. Students receiving a M.S. in physics will obtain an understanding of advanced physics concepts and mathematical and problem-solving skills needed to solve advanced physics problems. Students are strongly encouraged to be involved with faculty research programs that will develop experimental skills in physics, astrophysics, or biophysics as well as experience in analyzing and interpreting scientific data and the writing of scientific papers, reports, or theses. The Department offers the Ph.D. degree in cooperation with Missouri University of Science and Technology Physics Department. Students must satisfy the Missouri S&T admission standards, and the Missouri S&T Qualifying Exam in Physics is required of University of Missouri-St. Louis Ph.D. students. However, all course work and dissertation research may be completed while the student is in residence at UMSL. In addition to obtaining an understanding of advanced physics concepts and mathematical and problem-solving skills needed to solve advanced physics problems, Ph.D. students are expected to conduct independent scientific research in physics, astrophysics, or biophysics

while learning to analyze and interpret scientific data and write scientific papers, reports, and a dissertation.

Undergraduate Studies General Education Requirements

Majors must complete the university and college general education requirements (p. 28). Any of the following courses may be used to satisfy the physical science requirement:

Cosmic Evolution Introductory Astronomy

ASTRON 1001	Cosmic Evolution Introductory Astronomy	4
ASTRON 1001A	Cosmic Evolution/Introduction Astronomy	3
ASTRON 1011	Planets And Life In The Universe	3
ASTRON 1012	The Violent Universe And The New Astronomy	3
ASTRON 1050	Introduction To Astronomy I	3
ASTRON 1051	Introduction To Astronomy II	3
ASTRON 1121	The Search For Extraterrestrial Life	3
ATM SCI 1001	Elementary Meteorology	4
GEOL 1001	General Geology	4
GEOL 1002	Historical Geology	4
GEOL 1001A	General Geology	4
GEOL 1002A	Historical Geology Lecture	3
PHYSICS 1001	How Things Work	3
PHYSICS 1011	Basic Physics 1	4
PHYSICS 1012	Basic Physics II	4
PHYSICS 2111	Physics: Mechanics And Heat	5
PHYSICS 2112	Physics: Electricity, Magnetism, And Optics	5

Degree Requirements

All physics majors in all programs must complete the physics core curriculum with the exception that majors pursuing the Physics Education option are not required to take PHYSICS 1099 (p. 212) and CMP SCI 1250 (p. 212). In addition to the core courses, each individual program has its own specific requirements. Required Physics, Mathematics, Chemistry, Biology, Optometry and Computer Science courses for a major or minor in physics may not be taken on a satisfactory/unsatisfactory grading basis.

Core Curriculum

ASTRON 1001

The following physics courses are required:	23
PHYSICS 1099 Windows On Physics	
(p. 212)	
PHYSICS 2111 Physics: Mechanics And Heat	
(p. 212)	
PHYSICS 2112 Physics: Electricity, Magnetism, And Optics	
(p. 212)	
PHYSICS 3200 Mathematical Methods Of Theoretical Physics	
(p. 212)	
PHYSICS 3221 Mechanics	
(p. 212)	
PHYSICS 3223 Electricity And Magnetism	
(p. 212)	
PHYSICS 3231 Introduction To Modern Physics I	
(p. 212)	
Also required are:	26

To	otal Hours		49
	CMP SCI 1250 (p. 212)	Introduction To Computing	
	CHEM 1111 (p. 212)	Introductory Chemistry I	
	MATH 2020 (p. 212)	Introduction To Differential Equations	
	MATH 2000 (p. 212)	Analytic Geometry And Calculus III	
	MATH 1900 (p. 212)	Analytic Geometry And Calculus II	
	MATH 1800 (p. 212)	Analytic Geometry And Calculus I	

Note: Students are urged to begin the calculus sequence [MATH 1800 (p. 212), Analytic Geometry and Calculus I] as soon as possible to avoid delays in graduation.

Students with experience in digital computer programming may be excused from CMP SCI 1250 (p. 212).

Bachelor of Arts in Physics

The B.A. program is tailored to students wishing to preserve the option for specialization in graduate school without sacrificing the advantages of a liberal arts education. In addition to the core curriculum, including the foreign language requirement, at least three electives at the 3000 or 4000 levels must be completed. It is recommended that at least one of these three electives include ASTRON 4322 (p. 212), PHYSICS 4311 (p. 212), or PHYSICS 4347 (p. 212) for the required capstone course. The Department of Physics and Astronomy will accept the three-course sequence in American Sign Language as a substitution for the foreign language requirement for the degree. At least 31 hours of physics courses, but no more than 45 hours, are required.

Bachelor of Science in Physics

The B.S. degree provides students with six options: general physics, astrophysics, engineering physics, medical physics, optical biophysics or physics education.

General Physics Option

This option may be elected by students desiring a greater concentration in physics and mathematics and is recommended for students wishing to enter graduate study in physics. At least 50 hours are required. In addition to the core curriculum, the following physics courses are required:

Physics

	PHYSICS 4310 (p. 212)	Modern Electronics	3
	PHYSICS 4311 (p. 212)	Advanced Physics Laboratory I	3
	PHYSICS 4323 (p. 212)	Modern Optics	3
	PHYSICS 4331 (p. 212)	Intro To Quantum Mechanics	3
	PHYSICS 4341 (p. 212)	Thermal And Statistical Physics	3
	PHYSICS 4350 (p. 212)	Computational Physics	3

Astronomy ASTRON 1050 Introduction To Astronomy I (p. 212) or ASTRON 1051 Introduction To Astronomy II (p. 212) Mathematics MATH 2450 (p. Elementary Linear Algebra 212) Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry			
ASTRON 1050 Introduction To Astronomy I (p. 212) or ASTRON 1051 Introduction To Astronomy II (p. 212) Mathematics MATH 2450 (p. Elementary Linear Algebra 212) Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry		ives at or above the 4000 level in physics or	9
(p. 212) or ASTRON 1051 Introduction To Astronomy II (p. 212) Mathematics MATH 2450 (p. Elementary Linear Algebra 212) Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Astronomy		
Mathematics MATH 2450 (p. Elementary Linear Algebra 212) Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry		Introduction To Astronomy I	3
MATH 2450 (p. Elementary Linear Algebra 212) Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry		Introduction To Astronomy II	
Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Mathematics		
Chemistry CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	\ '	Elementary Linear Algebra	3
CHEM 1121 (p. Introductory Chemistry II (or equivalent) 212) Total Hours 4 Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry			3
212) Total Hours Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Chemistry		
Physics PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry		Introductory Chemistry II (or equivalent)	5
PHYSICS 4310 Modern Electronics PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Total Hours		41
PHYSICS 4311 Advanced Physics Laboratory I PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Physics		
PHYSICS 4323 Modern Optics PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4310	Modern Electronics	3
PHYSICS 4331 Intro To Quantum Mechanics PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4311	Advanced Physics Laboratory I	3
PHYSICS 4341 Thermal And Statistical Physics PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4323	Modern Optics	3
PHYSICS 4350 Computational Physics Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4331	Intro To Quantum Mechanics	3
Select three electives at or above the 4000 level in physics or astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4341	Thermal And Statistical Physics	3
astronomy. Astronomy ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	PHYSICS 4350	Computational Physics	3
ASTRON 1050 Introduction To Astronomy I or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry		ives at or above the 4000 level in physics or	9
or ASTRON 1051 Introduction To Astronomy II Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Astronomy		
Mathematics MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	ASTRON 1050	Introduction To Astronomy I	3
MATH 2450 Elementary Linear Algebra Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	or ASTRON 1051	Introduction To Astronomy II	
Select one elective in mathematics at or above the 3000 level, or in computer science at or above the 2000 level. Chemistry	Mathematics		
computer science at or above the 2000 level. Chemistry	MATH 2450	Elementary Linear Algebra	3
·		•	3
CLIEN 4404	Chemistry		
CHEM 1121 Introductory Chemistry II (or equivalent)	CHEM 1121	Introductory Chemistry II (or equivalent)	5

Astrophysics Option

Students who have interests in the aerospace sciences or anticipate graduate studies in astrophysics may elect this option. At least 48 hours must be taken. In addition to the core curriculum, the following physics courses are required:

Physics

Total Hours

PHYSICS 4323 (p. 212)	Modern Optics	3
PHYSICS 4331 (p. 212)	Intro To Quantum Mechanics	3
PHYSICS 4341 (p. 212)	Thermal And Statistical Physics	3
PHYSICS 4350 (p. 212)	Computational Physics	3
Astronomy		
ASTRON 1050 (p. 212)	Introduction To Astronomy I	3

ASTRON 1051 (p. 212)	Introduction To Astronomy II	3
ASTRON 4301 (p. 212)	Astrophysics	3
ASTRON 4322 (p. 212)	Observational Astronomy	4
Select one physic	s elective at or above the 4000 level. 1	3
Mathematics		
MATH 2450 (p. 212)	Elementary Linear Algebra	3
Total Hours		31

With consent of the astronomy adviser, there may be substitution of ASTRON 1001 (p. 212), ASTRON 1001A (p. 212), ASTRON 1011 (p. 212) or ASTRON 1012 (p. 212) for ASTRON 1050 (p. 212) or ASTRON 1051 (p. 212).

Engineering Physics Option

Students interested in careers in the research and development field of industry should consider this option. This program exposes the student to a basic engineering curriculum, as well as to areas of physics with industrial applications, such as electronics, modern optics, and linear analysis. At least 49 hours, but no more than 51, are required. In addition to the core curriculum, the following courses are required:

Joint Engineering

41

ENGR 2310 (p. 212)	Statics	3
ENGR 2320 (p. 212)	Dynamics	3
Joint Electrical I	Engineering	
J E ENGR 2300 (p. 212)	Introduction To Electrical Networks	3
Physics		
PHYSICS 4310 (p. 212)	Modern Electronics	3
PHYSICS 4311 (p. 212)	Advanced Physics Laboratory I	3
PHYSICS 4323 (p. 212)	Modern Optics	3
PHYSICS 4331 (p. 212)	Intro To Quantum Mechanics	3
PHYSICS 4341 (p. 212)	Thermal And Statistical Physics	3
Mathematics		
MATH 1320 (p. 212)	Applied Statistics I	3
MATH 2450 (p. 212)	Elementary Linear Algebra	3
	ve in mathematics at or above the 3000 level, or in a e at or above the 2000 level.	3
Total Hours		33

Medical Physics Option

This option is designed for students who are interested in careers in various medical fields or biophysics. This option provides a strong preparation in physics, mathematics, chemistry, and biology for students

who intend to apply for admission to medical schools. At least 41 hours of physics and biology combined, but no more than 51, are required. In addition to the core curriculum, the following physics and biology courses are required:

Physics

PHYSICS 4310 (p. 212)	Modern Electronics	3
PHYSICS 4347 (p. 212)	Biophysics Of Imaging	4
Biology		
BIOL 1831 (p. 212)	Introductory Biology: From Molecules To Organisms	5
BIOL 1821 (p. 212)	Introductory Biology: Organisms And The Environment	5
Select two addition	onal physics electives at the 4000 level.	6
Chemistry		
CHEM 1121 (p. 212)	Introductory Chemistry II	5
CHEM 2612 (p. 212)	Organic Chemistry I	3
CHEM 2622 (p. 212)	Organic Chemistry II	3
CHEM 2633 (p. 212)	Organic Chemistry Laboratory	2
Total Hours		36

Optical Biophysics Option

This program is designed for students wanting to obtain a strong biophysics emphasis that will also prepare them for the optometry program at UMSL. This 3+4 program allows students to complete their B.S. in physics and Doctor of Optometry degrees in seven years. Students can complete their B.S. in physics degree in their fourth year while starting coursework in the College of Optometry. A total of 55 hours in physics, biology, and optometry courses are required. In addition to the physics core curriculum, the following courses are required:

Physics

PHYSICS 4341 (p. 212)	Thermal And Statistical Physics	3
Biology		
BIOL 1831 (p. 212)	Introductory Biology: From Molecules To Organisms	5
BIOL 1821 (p. 212)	Introductory Biology: Organisms And The Environment	5
BIOL 2482 (p. 212)	Microbiology	3
BIOL 2483 (p. 212)	Microbiology Laboratory	2
Optometry (fourth year only)		
OPTOM 8020 (p. 212)	Basic and Clinical Optics I	4
OPTOM 8060 (p. 212)	Biochemistry	3
OPTOM 8120 (p. 212)	Basic & Clinical Optics II	5
OPTOM 8140	Physical Optics and Photometry ¹	3

Chemistry

CHEM 1121 (p. 212)	Introductory Chemistry II	5
CHEM 2612 (p. 212)	Organic Chemistry I	3
CHEM 2622 (p. 212)	Organic Chemistry II	3
CHEM 2633 (p. 212)	Organic Chemistry Laboratory	2
Psychology		
PSYCH 1003 (p. 212)	General Psychology	3
Select one elective	e in psychology	3
Statistics		
MATH 1320 (p. 212)	Applied Statistics I	3
or PSYCH 2201 (p. 212)	Psychological Statistics	
Total Hours		55

This course will not be offered in 2013-2014. Please contact the department for more information.

Note: Upon declaring physics as a major and selecting this option, students should seek an initial interview with the Director of Student Services and the Pre-Optometry Advisor in the UMSL College of Optometry to ensure that all prerequisites for the College of Optometry will be completed. A similar review is recommended at the beginning of the Winter Semester of the second year. In August following the completion of their second year of this program, students may apply formally to the UMSL College of Optometry and arrange to take the Optometry Admissions Test (OAT) during the Fall semester of their third year. The applicant will be invited for a formal interview for acceptance into the College of Optometry professional program following receipt of a completed application in the Fall Semester of the candidate's third year. Following the formal interview with the College of Optometry at the beginning of the third year, students with a 3.0 or better grade point average in the science prerequisites for optometry and a score of 310 or better on the OAT exam may be accepted into the College of Optometry.

B.S. degree in Physics, Physics Education Option and B.S. degree in Secondary Education with an Emphasis in Physics.

The course sequence below meets the science requirements for Missouri certification for teaching physics at the secondary school level. All candidates must enroll in a program that includes Levels I, II, and III coursework in the College of Education, which includes one semester as a Teacher Intern and one semester of full-time Student Teaching. In addition, students must complete the following Science Core Courses and the courses listed under Physics Endorsement:

Science Core Courses

PHIL 3380 (p. 212)	Philosophy Of Science	3
BIOL 1831 (p. 212)	Introductory Biology: From Molecules To Organisms	5
BIOL 2102 (p. 212)	General Ecology	3

CHEM 1111 (p. 212)	Introductory Chemistry I	5
CHEM 1121 (p. 212)	Introductory Chemistry II	5
PHYSICS 2111 (p. 212)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 212)	Physics: Electricity, Magnetism, And Optics	5
Select one of the t	following:	4
GEOL 1001 (p. 212)	General Geology	
ATM SCI 1001 (p. 212)	Elementary Meteorology	
ASTRON10XX		

Physics Endorsement

PHYSICS 3200 (p. 212)	Mathematical Methods Of Theoretical Physics	3
PHYSICS 3221 (p. 212)	Mechanics	3
PHYSICS 3223 (p. 212)	Electricity And Magnetism	3
PHYSICS 3231 (p. 212)	Introduction To Modern Physics I	3
PHYSICS 4310 (p. 212)	Modern Electronics	3
PHYSICS 4311 (p. 212)	Advanced Physics Laboratory I	3
SEC ED 3240 (p. 212)	Curriculum And Methods Of Teaching Physical Sciences	3
SEC ED 4837 (p. 212)	Chemistry/Physics Teaching Seminar	2

Minor in Physics

Students may complete a minor in physics with the flexibility of emphasis on classical physics, modern physics, or a combination of the two areas. The following physics courses are required:

PHYSICS 1099 (p. 212)	Windows On Physics	1
PHYSICS 2111 (p. 212)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 212)	Physics: Electricity, Magnetism, And Optics	5
PHYSICS 3200 (p. 212)	Mathematical Methods Of Theoretical Physics	3
Select two additio	nal emphasis courses from the following:	6
PHYSICS 322 ² (p. 212)	1 Mechanics	
PHYSICS 3223 (p. 212)	BElectricity And Magnetism	
PHYSICS 323 ² (p. 212)	I Introduction To Modern Physics I	

PHYSICS 4310 Modern Electronics (p. 212)

Total Hours 20

A GPA of at least 2.0 is required in courses presented for a minor. It is required that a student completes a minimum of 6 hours of graded work in 2000 level or above courses on the UMSL campus.

Graduate Studies

Admission Requirements

The Department requires applicants to have adequate backgrounds in such areas as mechanics, thermodynamics, electromagnetism, optics, electronics, and modern physics. Students admitted to the program with deficiencies in these areas are required to take appropriate undergraduate courses. If necessary, a remedial program is determined in consultation with the department graduate studies director at the time of application for admission.

Graduate Degree Requirements

Master's

A student must complete 30 credit hours in graduate physics courses with at least 15 of these at the 5000 or 6000 level. Writing a thesis is optional. A maximum of six (3) credit hours of Research, PHYSICS 6490 (p. 212), may be counted toward the minimum 15 hours with (or without) the thesis option. Students must pass a comprehensive examination, which includes a defense of the thesis for students who have chosen to write one. A grade point average of 3.0 must be maintained during each academic year. Students must complete their degree program within 130 percent of the semester hour requirements for the degree. The requirements must be fulfilled within six years from the time of admission. Two-thirds of required graduate credit must be taken in residence. There is no foreign language requirement.

Typical Program

First Semester

PHYSICS: 6000 level and 4000, 5000 level course	6
Second Semester	
PHYSICS: 6000 level and 4000, 5000 level course	6
Third Semester	
PHYSICS: 6000 level and 4000, 5000 level course	6
PHYSICS 6490 Research (p. 212)	3
Fourth Semester	
PHYSICS: 6000 level and 4000 level course	6
PHYSICS 6490 Research	3
(p. 212)	
Total Hours	30
First Semester	
PHYSICS: 6000 level and 4000, 5000 level course	6
Second Semester	
PHYSICS: 6000 level and 4000, 5000 level course	6
Third Semester	
PHYSICS: 6000 level and 4000, 5000 level course	6
PHYSICS 6490 Research	3

Fourth Semester	
PHYSICS: 6000 level and 4000 level course	6
PHYSICS 6490 Research	3
Total Hours	30

Doctorate

Students must complete a minimum of 48 hours past the master's degree with satisfactory performance. The university has a residency requirement of three years/six semesters (for those with master's degree, two years/ four semesters) at UMSL and/or Missouri S&T. The Ph.D. qualifying exam, dissertation, and dissertation exam are administered in cooperation with Missouri S&T. All graduate work requires B grades or better. The dissertation may be written in absentia, and there is no foreign language requirement.

Special Equipment, Facilities, or Programs

The William L. Clay Center for Nanoscience, which opened in 1996, is an interdisciplinary facility bringing together both physicists and chemists for research in materials science. A focus of the center is to foster collaborations between its members and colleagues in industry. The center houses the Microscope Image and Spectroscopy Tech Lab where research at the forefront of nanotechnology is conducted with transmission electron, scanning probe, and scanning electron microscopes in a building uniquely designed for such work. The center is spearheading the formation of the Missouri NanoAlliance, a nano-characterization and synthesis network that will facilitate the sharing of resources across Missouri. The Center for Neurodynamics, established in 1995, conducts research at the interface between physics and biology, with a focus on the roles of noise and stochastic synchronization in neural processing. The center has an on-site high speed (CCD) imaging system for studying the spatial dynamics of neural activity in the mammalian brain. Collaborations with St. Louis University will permit high time-resolution magnetoencephalography (MEG) image analysis, making use of a high-speed Internet 2 connection, UMSL's new high-speed (3.8 GHz) 128-node Beowulf cluster, and Missouri's first MEG machine. Astronomers make use of national facilities at Kitt Peak, Cerro Tololo, and Mauna Kea Observatories. The university provides email and internet services through numerous student labs equipped with computers with Windows and Macintosh operating systems, flat-bed document scanners, and color printers. The department maintains a network of UNIX/LINUX/OSX system and workstations and a workstation for image processing. In addition, the Ddepartment maintains a library containing some of the most frequently used physics journals and machine and electronics shops.

Career Outlook

Many of our students have been successful in subsequent graduate studies in astronomy and atmospheric science, biomedical engineering, medical physics, and patent law, as well as in physics. Our alumni have pursued graduate studies and earned doctorate degrees at institutions such as Cornell University, University of Wisconsin, Washington University, and University of Chicago. The many students who elected a career in industry are now working in a variety of settings for such firms as International Business Machines, Emerson Electric, MEMC Electronic Materials, Motorola, A T & T, Hewlett-Packard, Boeing, and the National Center for Atmospheric Research. Several former students are currently teaching physics in high schools around the St. Louis area.

Astronomy Courses

ASTRON 1001 Cosmic Evolution Introductory Astronomy: 4 semester hours

Overview of astronomy, from the planets to the Big Bang. Topics include the celestial motions, planets and the formation of the solar system, stars and stellar evolution, galaxies, and cosmology. Students will be introduced to the latest discoveries and how they affect our understanding of the universe. The format is three classroom hours and one 2-hour laboratory session per week to enhance lecture material.

ASTRON 1001A Cosmic Evolution/Introduction Astronomy: 3 semester hours

Overview of astronomy, from the planets to the Big Bang. Topics include the celestial motions, planets and the formation of the solar system, stars and stellar evolution, galaxies, and cosmology. Students will be introduced to the latest discoveries and how they affect out understanding of the universe. Three classroom hours per week. Same as ASTRON 1001 without the laboratory.

ASTRON 1011 Planets And Life In The Universe: 3 semester hours Man's concept of the solar system from Stonehenge to Einstein; geology and meteorology of the planets of our solar system, with particular attention to results from the space program; exobiology--study of the possibilities of life on other worlds and the best method of communicating with it. Three lecture hours per week.

ASTRON 1012 The Violent Universe And The New Astronomy: 3 semester hours

A nontechnical course focusing on recent results which larger telescopes and the space program have made available. Pulsars, x-ray stars, and black holes; radio astronomy, our galaxy, and interstellar molecules; exploding galaxies and quasars; origin of the expanding universe. Three lecture hours and one observing session per week.

ASTRON 1050 Introduction To Astronomy I: 3 semester hours
Prerequisites: MATH 1030 and MATH 1035. A survey of the history of
astronomy from the ancient times to present. Theories for the formation
and evolution of the solar system and the general features of the solar
system and planetary motions are discussed. The physical concept of
gravity is presented. The detailed properties of the planets, comets,
and asteroids are reviewed, concentrating on recent results from space

missions.

ASTRON 1051 Introduction To Astronomy II: 3 semester hours

Prerequisites: MATH 1030 and MATH 1035. A survey of astronomy
beyond the solar system. Topics include stars and stellar evolution,
neutron stars, and black holes. The physical concept of light and the
design of telescopes is discussed in detail. The structure of the Milky Way
Galaxy and the large scale structure of the universe are explored. Dark
matter, quasars, and active galactic nuclei are discussed in the context of
theories for the formation and evolution of the universe. Course does not
need to be taken in sequence with ASTRON 1050.

ASTRON 1121 The Search For Extraterrestrial Life: 3 semester hours
Prerequisite: ASTRON 1001 or ASTRON 1011. Are we alone? The
possibility of life in the universe in addition to our own will be explored.
Our discussion of the chances for extraterrestial life will be built around
the current theories of chemical, biological, and cultural evolution which
have led to our own technological civilization on Earth. Strategies for
communication with extraterrestial intelligence will be discussed.

ASTRON 4301 Astrophysics: 3 semester hours

Prerequisite: PHYSICS 3231 or consent of instructor. A Moderately technical introduction to astrophysics. Topics will include: physics of stellar interiors and atmospheres; interpretation of stellar spectra; stellar evolution; radio astronomy; and cosmology.

ASTRON 4322 Observational Astronomy: 4 semester hours

Prerequisite: ASTRON 1050, ASTRON 1051 and PHYSICS 3231. Tools of the astronomer: telescopes, spectroscopy, photoelectric photometry. Students will work on a number of projects which will enable them to develop expertise in obtaining, reducing, and analyzing astronomical observations. Student night observing will be an important part of the course. This course is primarily for persons who are astronomy or physics majors or who have some equivalent background.

Atmospheric Science Courses

ATM SCI 1001 Elementary Meteorology: 4 semester hours

Prerequisites: MATH 1020 or equivalent. An elementary course covering atmospheric phenomena, weather, and climate. Topics included are temperature, pressure, and moisture distributions in the atmosphere and dynamical effects such as radiation, stability, storms, and general circulation. Four classroom hours per week with one hour being a learning enhancement session to include demonstrations and exercises on problem solving.

ATM SCI 1001A Elementary Meteorology: 3 semester hours

Prerequisite: MATH 1020 or equivalent. An elementary course covering atmospheric phenomena, weather, and climate. Topics included are temperature, pressure, and moisture distributions in the atmosphere and dynamical effect such as radiation, stability, storms, and general circulation, Sam as ATM SCI 1001 without the learning enhancement session.

Geology Courses

GEOL 1001 General Geology: 4 semester hours

Earth materials and processes, including geological aspects of the resource/enery problem. Laboratory involves identification of common rocks and minerals.

GEOL 1001A General Geology: 4 semester hours

Earth materials and processes, including geological aspects of the resource/enery problem. Laboratory involves identification of common rocks and minerals.

GEOL 1002 Historical Geology: 4 semester hours

Study of changes in Geography, climate and life through geological time; origin of and continents oceans basins, and mountains in light of continental drift. Laboratory primarily involves description and identification of fossils. Three hours of lecture and two hours of lab.

GEOL 1002A Historical Geology Lecture: 3 semester hours

Study of changes in geography, climate and life through geological time; origin of continents, ocean basins, and mountains in light of continental drift. Same as GEOL 1002 without the laboratory.

GEOL 1053 Oceanography: 3 semester hours

The atmospheric and ocean circulations; the chemistry and geology of the deep sea; and their effects on the distribution of marine organisms.

Physics Courses

PHYSICS 1001 How Things Work: 3 semester hours

Can baseball players hit home runs more easily when the weather is hot and humid? This course provides a practical introdution to understanding common life experiences by using physical intuition and basic ideas of physics. Powerful scientific principles are demonstrated through topics ranging from airplane wings to compact disk players, from lightning strikes to lasers.

PHYSICS 1011 Basic Physics 1: 4 semester hours

Prerequisites: MATH 1030 and MATH 1035, MATH 1100 or MATH 1800 strongly recommended. A course specifically designed for students in health and life sciences covering the topics in classical mechanics such as kinematics, Newton's laws, energy, momentum and oscillations. This course will not fulfill the PHYSICS 2111 requirement for physics, chemistry, and engineering majors. Three classroom hours and two hours of laboratory per week.

PHYSICS 1011A Basic Physics I: 3 semester hours

Prerequisites: MATH 1030 and MATH 1035, MATH 1100 or MATH 1800 strongly recommended. A course specifically designed for students in health and life sciences, covering the topics of classical mechanics, heat and sound. Will not fulfill the PHYSICS 2111 requirement for physics, chemistry, and engineering majors. Three classroom hours per week. There is no laboratory associated with this course.

PHYSICS 1012 Basic Physics II: 4 semester hours

Prerequisites: PHYSICS 1011. A continuation of PHYSICS 1011. A course specifically designed for students in health and life sciences covering electricity, magnetism, light, optics and waves. This course will not fulfill the PHYSICS 2112 requirement for physics, chemistry, and engineering majors. Three classroom hours and two hours of laboratory per week.

PHYSICS 1012A Basic Physics II: 3 semester hours

Prerequisites: PHYSICS 1011 or PHYSICS 1011A. A continuation of PHYSICS 1011. A course specifically designed for students i health and life sciences covering the topics of electricity, magnetism, light and radiation. Will not fulfill the PHYSICS 2112 requirement for physics, chemistry, and engineering majors. Three classroom hours. There is no laboratory associated with this course.

PHYSICS 1099 Windows On Physics: 1 semester hour

A seminar designed to introduce physics majors to research areas in physics and physics-related fields in the Department of Physics and Astronomy. In addition to fundamental areas of physics, the areas of astrophysics, biophysics, materials science, and nanotechnology will be included. Career opportunities for students with physics degrees will be discussed and the physics curriculum will be reviewed. The course meets weekly and is required of all physics majors and minors who are transfer students.

PHYSICS 2111 Physics: Mechanics And Heat: 5 semester hours

Prerequisites: MATH 1900 (may be taken concurrently). An introduction to the phenomena, concepts, and laws of mechanics and heat for physics majors and students in other departments. Three classroom hours, one hour discussion, and two hours of laboratory per week.

PHYSICS 2112 Physics: Electricity, Magnetism, And Optics: 5 semester hours

Prerequisites: PHYSICS 2111 and MATH 2000 (MATH 2000 may be taken concurrently). A phenomenological introduction to the concepts and laws of electricity and magnetism, electromagnetic waves, optics and electrical circuits for physics majors and students in other departments. Three hours of lecture, one hour of discussion, and two hours of laboratory per week.

PHYSICS 2113 Physics: The Structure Of Matter: 3 semester hours

Prerequisite: PHYSICS 2112. A phenomenological introduction to selected concepts and laws of physics as they are applied to the structure of matter. Elements of atomic, nuclear, and molecular physics will be discussed. Three hours lecture plus one hour discussion per week.

PHYSICS 3200 Mathematical Methods Of Theoretical Physics: 3 semester hours

Prerequisites: PHYSICS 2112 and MATH 2000 Mathematical techniques specifically used in the study of mechanics, electricity, magnetism, and quantum physics are developed in the context of various physical problems. Course includes the topics of vector calculus, coordinate systems, the Laplace equation and its solutions, elementary Fourier analysis, & complex variables. Applications to electrostatics, mechanics, and fluid dynamics are emphasized. Three hours of lecture per week.

PHYSICS 3221 Mechanics: 3 semester hours

Prerequisites: PHYSICS 3200 and MATH 2020 (MATH 2020 may be taken concurrently) Advanced course covering single and many particle dynamics, rigid-body dynamics, and oscillations. Variational principles and Hamiltonian formulations of mechanics are covered. Three hours of lecture per week.

PHYSICS 3223 Electricity And Magnetism: 3 semester hours

Prerequisites: PHYSICS 3200 and MATH 2020 (MATH 2020 may be taken concurrently) Advanced course covering the reigorous development, from basic laws, of Maxwell's equations for electromagnetic fields along with applications of these equations. Topics covered are electrostatics and electrodynamics including currents, magnetic fields, motion of charged particles in fields and an introduction to electromagnetic waves. Three hours of lecture per week.

PHYSICS 3231 Introduction To Modern Physics I: 3 semester hours

Prerequisites: PHYSICS 2111, PHYSICS 2112, and MATH 2020 (may be taken concurrently) and PHYSICS 3200 strongly recommended. Photons and the wave nature of particles, wave mechanics, Schroedinger equation, with applications to atomic physics; and radiation; the physics of solids; elementary particles; special relativity; health physics. Three hours of lecture per week.

PHYSICS 3232 Introduction To Modern Physics II: 3 semester hours
Prerequisite: PHYSICS 3231. Continuation of PHYSICS 3231.

PHYSICS 3281 Directed Readings In Physics: 1-5 semester hours

Prerequisite: Consent of Instructor An independent study of special topics in physics. A paper may be required on an approved topic. Topics must be substantially different. Hours arranged.

PHYSICS 3390 Research: 1-10 semester hours

Prerequisite: Consent of department. Independent physics research projects arranged between student and instructor. Hours arranged.

PHYSICS 4301 Nanostructures: An Introduction: 3 semester hours Prerequisites: Physics 3231.

PHYSICS 4305 Bayesian Data analysis for the Sciences: 3 semester

Prerequisites: Consent of Instructor. This is a cross-disciplinary course in two parts. Part one covers Bayesian inference as applied to data analysis in general, with a special focus on the mathematics of model-selection in the physical and life sciences. Part two concentrates specifically on the Bayesian use of log-probability (i.e. information) measures to track order-disorder transitions in thermodynamics, and to track the evolution of subsystem correlations (via both digital and analog means) in a wide variety of complex systems. Expect weekly empirical observation exercises, and opportunities for asynchronous as well as synchronous collaboration.

PHYSICS 4306 Nanoscience Practicals: 1-3 semester hours

Studies of Nanoscience characterization, synthesis, modeling techniques designed for clients of these tools, as well as for technical users interested in a current overview. Course consists of a set of 1/3 semester modules. Check with the instructor on more specialized modules, (e.g., on materials microscopy), if interested. Each module will cover instrumentation, current applications, weaknesses, and will involve lab visits for hands-on experience, weekly web interaction and classroom hours.

PHYSICS 4308 Transmission Electron Microscopy: 3 semester hours

Prerequisite: Consent of instructor. Course introduces students to transmission electron microscopy techniques and their applications to solving challenging materials and biological problems. Course includes fundamental principles (electron optics), electron-specimen interactions, diffraction of electrons, image formation and interpretation, image processing and analysis, energy dispersive X-ray spectroscopy, electron energy loss spectroscopy, and sample preparation of both biological and non-biological systems. Laboratory experiments will provide students "hands-on" experience with TEM operations and problem solving skills. Successful completion of the course enables students to independently operate transmission electron microscopes to perform basic research experiments. This course is ideal for students interested in ultrastructural or nanocharacterization of biological or materials systems. Two classroom hours and two hours of laboratory per week.

PHYSICS 4309 Scanning Probe Microscopy: 3 semester hours

Prerequisites: Consent of instructor A lecture/laboratory study of research techniques using scanning probe microscopy. Topics include atomic force microscopy, scanning tunneling microscopy, feedback control, scanning tip fabrication, scan calibrations, air/solution/vacuum imaging, image processing and analysis, near-field optical probes, metrology, and lateral force/displacement microscopy. Applications in physics, chemistry, biology, engineering and surface science are discussed. Two hours lecture and two hours laboratory per week.

PHYSICS 4310 Modern Electronics: 3 semester hours

An integrated recitation/laboratory study of modern analog and digital electronics with emphasis on integrated circuits. Topics include circuit elements, operational amplifiers, logic gates, counters, adc/dac converters, noise reduction, microprocessors, embedded microcontrollers, and digital processing. Three hours of lecture/laboratory per week.

PHYSICS 4311 Advanced Physics Laboratory I: 3 semester hours

Prerequisite: Advanced standing with at least nine completed hours of Physics at or above the 3000 level. Physics majors are introduced to the experimental techniques used in research. A student will choose and do several special problems during the semester. Six hours laboratory per week

PHYSICS 4323 Modern Optics: 3 semester hours

Prerequisite: PHYSICS 3223 A study of modern optics including diffraction theory, polarization, light propagation insolids, quantum optics, and coherence.

PHYSICS 4331 Intro To Quantum Mechanics: 3 semester hours

Prerequisites: PHYSICS 3200 and PHYSICS 3231 Photons and the wave nature of particles; wave mechanics, Schroedinger equation, operator and matrix formulations, and Dirac notation; applications to single particle systems, atomic physics, and spectroscopy.

PHYSICS 4341 Thermal And Statistical Physics: 3 semester hours

Prerequisites: MATH 2000 and PHYSICS 3231. Introduction to statistical mechanics, classical thermodynamics, and kinetic theory.

PHYSICS 4343 Selected Topics In Physics I: 3 semester hours

Prerequisites: PHYSICS 3221, PHYSICS 3223, PHYSICS 3231, PHYSICS 4341 Topics include special phenomena for research areas such as physics of waves, biophysics, nonlinear physics, geophysical fluid dynamics and the atmospheric sciences treated by methods of advanced mechanics, electromagnetism, statistical mechanics, thermodynamics and quantum mechanics. Three hours of lecture per week.

PHYSICS 4344 Selected Topics In Physics II: 3 semester hours Prerequisite: PHYSICS 4343. Continuation of PHYSICS 4343 Three hours

lecture and one hour discussion per week.

PHYSICS 4347 Biophysics Of Imaging: 4 semester hours

Prerequisites: PHYSICS 3231, BIOL1821, and BIOL 1831 An introduction to the application of physical principles to problems in medical physics and biology, with a particular focus on the biophysics of various technologies for imaging both human patients and biological macromolecules. Topics covered will include the principles of x-ray crystallography, metabolic and optical changes in the brain, NMR and fMRI, magnetoencephalography, PET imaging, the electrophysiology of EEG and ECG, dynamics in the body and brain, and dynamics in genetics. Laboratory projects on brain imaging and data analysis are an integral part of the course. Three classroom hours and two laboratory hours per week.

PHYSICS 4350 Computational Physics: 3 semester hours

Prerequisite: PHYSICS 3221, PHYSICS 3223, and PHYSICS 3231. Computer Analysis In Physics; Solutions Of Eigenvalue Problems; Coupled Differential Equations; And Writing Of Fortran Programs.

PHYSICS 4351 Elementary Solid State Physics: 3 semester hoursPrerequisites: PHYSICS 4331 Theoretical and experimental aspects of solid state physics, including one-dimensional band theory of solids; electron emission from metals and semiconductors; electrical and thermal conductivity of solids.

PHYSICS 4353 Physics Of Fluids: 3 semester hours

Prerequisites: PHYSICS 3221, PHYSICS 3223, and PHYSICS 4341, or consent of instructor. Dynamical theory of gases and liquids. Course covers the mathematical development of physical fluid dynamics with contemporary applications.

PHYSICS 4354 Atmospheric Physics: 3 semester hours

Prerequisites: PHYSICS 4341 and PHYSICS 3221. The mathematical application of physical laws to atmospheric dynamics and physical meteorology. Application of mechanics, thermodynamics, optics, and radiation to atmospheric phenomena including the ionosphere.

PHYSICS 4365 Introduction To Plasma Physics: 3 semester hours

Prerequisites: PHYSICS 3223 and PHYSICS 4341 A study of the nonlinear collective interactions of ions, electrons, and neutral molecules with each other and with electric and magnetic fields. Topics include plasma confinement and stability, electrical discharges and ionization, kinetic theory of plasma transport, plasma waves and radiation, and controlled fusion. Solutions of the Boltzmann, Fokker-Planck, and Vlasov equations are discussed and methods of advanced electromagnetism and statistical physics are utilized.

PHYSICS 4370 Relativity And Cosmology: 3 semester hours

Prerequisites: PHYSICS 3221, PHYSICS 3223 and PHYSICS 3231 An introduction to Einstein's general theory of relativity. Topics will include special relativity in the formalism of Minkowski's four dimentional spacetime, Principle of Equivalence, Riemannian geometry and tensor analysis, Einstein Field Equation and cosmology.

PHYSICS 4381 Directed Readings In Physics: 1-10 semester hours

Prerequisite: Consent of instructor. An independent study of special topics in physics for senior undergraduates or graduate students.

PHYSICS 5307 Advanced Scanning Electron Microscopy: 3 semester hours

Prerequisites: Consent of instructor. This Course introduces students to advanced scanning electron microscopy techniques and their applications to solving challenging materials and biological problems. Course includes electron optics, electron-specimen interactions, image formation and interpretation, compositional analysis by energy dispersive x-ray spectroscopy, and sample preparation of both biological and non-biological systems. Laboratory experiments will provide students "hands-on" experience with SEM operations and problem-solving skills. Successful completion of the course enables students to independently operate scanning electron microscopes to perform research experiments. Two classroom hours and two hours of laboratory per week.

PHYSICS 5308 Transmission Electron Microscopy: 3 semester hours Prerequisites: PHYSICS 4307 or consent of instructor A lecture/laboratory study of transmission electron microscopy (TEM) in conventional, analytical, and phase-contrast (high resolution) applications. Course includes advanced electron optics and image formation, defect structures, specimen preparation, contrast theory, diffraction/periodicity analysis, and electron energy loss/x-ray spectroscopy. Two hours lecture and two hours

PHYSICS 5345 Nonlinear Dynamics And Stochastic Processes: 3 semester hours

laboratory per week.

Prerequisites: PHYSICS 3221 and PHYSICS 4341 and consent of instructor. Dynamical systems; theory of oscillations; introduction to bifurcation theory and chaos in dissipative systems with applications in physics and biology; introduction to stochastic processes with applications in physics, chemistry and biology; dynamics of nonlinear systems perturbed by noise; noise-induced phase transitions; linear and nonlinear time series analysis. Three classroom hours per week.

PHYSICS 5357 Fundemental Particles and Forces: 3 semester hours

Prerequisites: PHYSICS 3223, PHYSICS 3231, and PHYSICS 4331, may be taken concurrently Introduction to nuclear and particle physics. Nuclear phenomenology and models; high energy particle accelerators and detectors; phenomenology of strong, electromagnetic and weak interactions; symmetry principles; quark compositions of strongly interacting baryons and mesons; gauge theories and the standard model of particle interactions; grand unification.

PHYSICS 5402 Introduction To Mathematical Physics: 3 semester hours

Prerequisites: Graduate standing in physics or consent of instructor A course covering mathematical techniques as applied in advanced theoretical physics including generalized vector spaces and their dual spaces, linear operators and functionals, generalized functions, spectral decomposition of operators, tensor analysis, and complex variables. Three hours of lecture per week.

PHYSICS 5403 Principles Of Mathematical Physics: 3 semester hours

Prerequisites: Graduate standing in physics or consent of instructor Boundary value problems; Strum-Liouville theory and orthogonal functions; Green's function techniques; and introduction to group theory with emphasis on representations of Lie Algebras. Three hours of lecture per week.

PHYSICS 6300 Master's Thesis: 3 semester hours

Prerequisite: Consent of Instructor. Thesis work under the supervision of a faculty member. The course is designed for those students intending to present a thesis as part of their M.S. program. Students who do not write a thesis cannot apply PHYSICS 6300 to a degree. This course transfers to the Cooperative Ph.D. program as three research credits.

PHYSICS 6400 Special Problems: 1-5 semester hours

Must have faculty mentor and approval of Department Chairperson. A study of special topics in physics for graduate students.

PHYSICS 6401 Special Topics: 1-4 semester hours

Prerequisite: Consent of instructor. This course is designed to give the department an opportunity to test a new course.

PHYSICS 6404 Experimental Research Techniques: 3 semester hours

Prerequisite: Gradtuate standing. Experiments in various fields designed to stress techniques and experimental approach.

PHYSICS 6405 Theoretical Physics I: 3 semester hours

Prerequisite: PHYSICS 3221 and PHYSICS 3223, Or equivalent. Newton's laws applied to simple systems, central force problems variational principles, lagrangian and hamiltonian formulations, electrostatics. Maxwell field, operations, wave propagation.

PHYSICS 6406 Theoretical Physics II: 3 semester hours

Prerequisite: PHYSICS 3231, PHYSICS 4341, or equivalent, and PHYSICS 6405. Schroedinger equation and wave mechanical treatment of simple systems; perturbation theory; identical particles and spin. Laws of thermodynamics, canonical systems; thermodynamic potentials and Maxwell equations, open systems and chemical potential, Clausius-Clapeyron euqation.

PHYSICS 6407 Modern Physics: 3 semester hours

Prerequisite: PHYSICS 4331. A study of some of the more important concepts of modern physics.

PHYSICS 6409 Theoretical Mechanics I: 3 semester hours

Prerequisite: PHYSICS 3221 Classical mechanics, methods of Newton, Lagrange, and Hamilton applied to motion of particles and rigid bodies, elasticity, hydrodynamics.

PHYSICS 6410 Seminar: 1-3 semester hours

Prerequisite: Approval of Department Chair. Discussion of current topics.

PHYSICS 6411 Electrodynamics I: 3 semester hours

Prerequisite: PHYSICS 3223. A rigorous development of the fundamentals of electromagnetic fields and waves. Electrostatics, magnetostatics, Maxwell's equations, Green's functions, boundary value problems, multipoles, conservation laws.

PHYSICS 6413 Statistical Mechanics: 3 semester hours

Prerequisite: PHYSICS 4331, PHYSICS 4341. A study of statistical ensembles; Maxwell-Boltzmann, Fermi-Dirac and Einstein-Bose distribution laws, application to some physical systems.

PHYSICS 6415 Theoretical Mechanics II: 3 semester hours

Prerequisite: PHYSICS 6409. Transformation theory of mechanics, Lagrange and Poisson brackets, Hamilton-Jacobi theory, introduction to the classical theory fields.

PHYSICS 6417 Advanced Statistical Mechanics: 3 semester hours

Prerequisite: PHYSICS 6413. A continuation of PHYSICS 6413 further applications as to such topics as the imperfect gas, condensation and the critical region, magnetism, liquid state and transport phenomena.

PHYSICS 6423 Electrodynamics II: 3 semester hours

Prerequisite: PHYSICS 6411. A Continuation of PHYSICS 6411. Applications of time-dependent Mxawell"s equations to such topics as plasmas, wave guides, cavities, radiation: fields of simple systems and multiples. Relativity: covariant formulation of Maxwell's equations and conservation laws, fields of uniformly moving and accelerated charges.

PHYSICS 6425 Plasma Physics: 3 semester hours

Prerequisite: PHYSICS 4341 and PHYSICS 6411. Fundamentals of kinetic theory, fluid equations, MHD equations, and applications; wave propagation, shielding effect, diffusion stability, and charged particles trajectories.

PHYSICS 6435 Cloud Physics: 3 semester hours

Prerequisites: PHYSICS 3223 and PHYSICS 4341. A study of cloud licrophysics and dynamics, atmospheric condensation and freezing muclei, phase, precipitation mechanisms, aerosol scavenging, role of electrification, current dynamical models, and review of diagnostic techniques.

PHYSICS 6455 Theoretical Nuclear Physics: 3 semester hours

Prerequisite: PHYSICS 6461. A study of the basic properties of nuclei, nuclear scattering and forces, nuclear reactions and models.

PHYSICS 6461 Quantum Mechanics I: 3 semester hours

Prerequisite: PHYSICS 4331. A study of the Schroedinger wave equation, operators and matices, perturbation theory, collision and scattering problems.

PHYSICS 6463 Quantum Mechanics II: 3 semester hours

Prerequisite: PHYSICS 6461. Continuation of PHYSICS 6461. To include such topics as Pauli Spin-Operator Theory, classification of atomic states, introduction to field quantization, and Dirac Electron Theory.

PHYSICS 6465 Quantum Mechanics III: 3 semester hours

Prerquisite: PHYSICS 6461 and PHYSICS 6463. Topics chosen from such fields as relativistic quantum mechanics, potential scattering, formal collision theory, group theoretical methods in quantum mechanics, electrodynamics.

PHYSICS 6467 Quantum Statistical Mechanics: 3 semester hours

Prerequisite: PHYSICS 6413 And PHYSICS 6463. Techniques for calculation of the partition function with examples drawn from interacting fermi-gas, interacting Bose gas, superconductors, and similar sources.

PHYSICS 6471 Atomic And Molecular Physics: 3 semester hours

Prerequisite: PHYSICS 6461. Applications of quantum mechanics to the structure of atoms and molecules; perturbation and variational calculations, self-consistent field, multiplets, angular momenta, Thomas-Fermi model, diatomic molecules, spectral intensities.

PHYSICS 6473 Atomic Collision Theory: 3 semester hours

Prerequisite: PHYSICS 6471 or PHYSICS 6463. Basic quantum mechanical concepts involved in atomic scattering theory. Topics include: elastic and inelastic collisions of electrons and ions with neutral atoms and molecules; collisions between heavy particles; curve crossing; photoprocesses; and Coulomb wave functions.

PHYSICS 6475 Molecular Spectroscopy: 3 semester hours

Prerequisite: PHYSICS 6461. Introduction to classical and quantum treatment of the vibrational And rotational structure and spectra of diatomic, linear triatomic and simple polyatomic molecules: vibrational-rotational interactions, point group symmetry in simple infrared spectra analysis, calculations of vibrational frequencies and normal coordinates of polyatomic atoms.

PHYSICS 6481 Physics Of Solid State: 3 semester hours

Prerequisite: PHYSICS 6461. Crystal symmetry, point and space groups, lattice vibrations, phonons, one-electron model, Hartee-Fock approximation, elementary energy band theory, transport properties, the Boltzmann equation, introduction to superconductivity, semiconductors and magnetism.

PHYSICS 6483 Selected Topics Of The Solid State: 3 semester hours

Prerequisite: PHYSICS 6481. Introduction to many-body perturbation theory, the use of Feynman diagrams. Green's functions, treatment of the electron-electron, phonon-phonon, and electron-phonon interactions, theory of magnetism and theory of superconductivity.

PHYSICS 6485 Advanced Quantum Mechanics: 3 semester hours
Prerequisite: PHYSICS 6465. Selected Topics Such As Many-Body
Problems Field Theory, S Matrix Theory And Symmetries.

PHYSICS 6490 Research: 1-10 semester hours

Prerequisite: Must have a faculty mentor and approval of the department chair. Investigations of an advanced nature leading to the preparation of a thesis or dissertation.

PHYSICS 6493 Oral Examination: 3 semester hours

After completion of all other program requirements, oral examinations for on-campus students may be processed during the first two weeks of an academic session or at any appropriate time for off-campus students upon enrollment in PHYSICS 6493 and payment of an oral examination fee. All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three semester hours for resident students.

PHYSICS 6495 Continuous Registration: 1-6 semester hours

Doctoral candidates who have completed all requirements for the degree except the dissertation, and are away from the campus must continue to enroll for at least one hour of credit each registration period until the degree is completed. Failure to do so may invalidate the candidacy.

Political Science

General Information

Degrees and Areas of Concentration

The political science department offers undergraduate work leading to the B.A. degree in political science, B.S. degree in public policy and administration, and, in cooperation with the College of Education, the B.A. in political science with teacher certification and the B.S. in education with an emphasis in social studies. (See College of Education section in this Bulletin for details.) Minors in political science are available to students who are majoring in another discipline and who have a special interest in law, government, politics, and public policy.

Principal areas of concentration include urban politics, American political processes and behavior, international politics, comparative politics, public policy and administration, public law, and political theory. In many courses, emphasis is placed on the ways in which public policies are developed and administered. In addition to formal course work, internships are available in which the student can relate classroom learning to practical field experience.

The political science department also offers graduate courses leading to the M.A. and Ph.D. in political science. The M.A. program in political science offers advanced education for those seeking careers in government, business, secondary education, community, or not-for-profit agencies. The principal foci of the 33-hour program are public administration and public policy analysis/evaluation in the local, state, national, and international areas. The flexibility of the general master's degree allows for individualized programs in urban politics, prelegal education, American national government, comparative politics, international relations, and political theory.

The Ph.D. in political science emphasizes the study of theoretic, analytic, and substantive approaches to public policy. Core courses include research methods, normative and empirical theory, and policy processes and institutions. Doctoral candidates, in consultation with the faculty, develop a policy concentration, which can be interdisciplinary. Internships, when appropriate, may be a component. All successful doctoral candidates must complete a dissertation, which makes a significant contribution to knowledge in the field.

Most graduate classes are scheduled so those employed outside the university can participate in the programs on a part-time basis. Financial assistance is available to full-time students.

Special Interdisciplinary Degree

The Department of Political Science also cooperates with the Department of Economics in the College of Arts and Sciences and the College of Business Administration in offering a master's degree in public policy administration (MPPA). For information on the MPPA degree program, see that section in this Bulletin.

Cooperative Programs

Political science students may also study overseas, or obtain a Certificate in International Studies, European Studies, African Studies, East Asian Studies, Latin American Studies, Women's & Gender Studies, or Writing, in conjunction with their political science major. See Certificate Programs in this Bulletin and consult with International Studies and Programs.

Research in political science is encouraged for students at all levels. Assistance is available at UMSL's Public Policy Research Centers, International Studies and Programs. The department's membership in the Interuniversity Consortium for Political and Social Research provides access to a wide range of survey data on local-state-national, comparative, and international politics. In addition, extensive research opportunities are available within the metropolitan St. Louis area. Scholarships are available for qualified students; details can be obtained from the department office.

Learning Outcomes

- Majors in the BA learn about power, conflict and cooperation in society, within and outside government.
- Students understand the fundamentals of scientific-based inquiry, the postulating of cause-effect relationships, and the marshalling of evidence using quantitative or qualitative methods to draw conclusions about problems in politics.
- We train students to communicate information effectively.
- The BSPPA program provides knowledge and skills for real world application in the context of American institutions and structures.
- Students learn the fundamentals of administration and policymaking in the Untied States by acquiring skills in budgeting, personnel management, accounting, and expertise in a specific policy area.
- The M.A. in political science provides a firm grounding in scientificbased inquiry into problems in politics.
- Students learn how institutional design and economic and cultural factors shape the distribution of power and patterns of cooperation and conflict in society within and outside of government.
- Students master the postulating of cause-effect relationships, and the marshalling of evidence using quantitative or qualitative methods to test hypotheses about problems in politics.

- The Ph.D. in political science trains students to become independent researchers who may apply their skills in the academic, government, non-profit, and business worlds.
- Students master the skills to frame researchable questions that make original contributions to empirical and theoretical knowledge about problems in politics.
- Students learn to rigorously specify cause-effect relationships, and to master techniques for marshalling evidence using quantitative and qualitative methods to test competing hypotheses about problems in politics.

Faculty

Political Science faculty are nationally known scholars in their respective fields, dedicated to high-quality teaching and education. Department faculty members have received distinctions such as the Curators' Research Award, Curators' Distinguished Teaching Professor Award, Presidential Award for Research and Creativity, Chancellor's Award for Research and Creativity, Chancellor's Award for Excellence in Teaching, Governor's Teaching Awards, Burlington Northern Faculty Achievement Award, Emerson Electric Excellence in Teaching Award and E. Desmond Lee Endowed Professor Award. They have received research grants from such prestigious agencies as the John F. Kennedy Library, the Ford Foundation, the MacArthur Foundation, the National Science Foundation, the German Marshall Fund, the United States Department of Education, the Fulbright Program, and the United States Institute for Peace. The faculty has published its research in more than 80 books and 400 articles in scholarly journals and is devoted to using its research findings to improve teaching.

In addition to helping students become more knowledgeable about politics and public policy, political science course work provides rich opportunities for students to develop a variety of practical skills--such as information-gathering and processing, analysis, research, decision making and oral and written communication--that are transferable to many career paths and job settings after graduation.

Undergraduate Studies General Education Requirements

Majors must satisfy the university and college general education requirements (p. 28). Political science courses may be used to satisfy the social sciences requirement. The foreign language requirement for the B.A. degree may be satisfied in any language.

Departmental Honors

The department awards honors to students having a grade point average (GPA) of 3.2 in the major, an overall GPA of 3.2 (except in extraordinary circumstances), and successfully completed an honors thesis, project, or report.

Degree Requirements Bachelor of Arts in Political Science

All majors must complete at least 36, but not more than 45, hours of political science. All students are required to take the following core curriculum:

Political Science

Total Hours	12
POL SCI 3950 (p. Senior Seminar In Political Science 222)	3
POL SCI 2000 (p. Political Analysis 222)	3
POL SCI 1500 (p. Introduction To Comparative Politics 222)	3
POL SCI 1100 (p. Introduction To American Politics 222)	3

Majors are urged to take POL SCI 1100 (p. 222), POL SCI 1500 (p. 222), and as early as possible since these courses are designed to provide a substantive foundation as well as conceptual and analytical tools for subsequent course work. Because the seminar topics in POL SCI 3950 (p. 222) change from semester to semester, the course can be repeated as an elective. All majors must take at least one Seminar in Political Science.

Students also must complete at least one course in four of the following political science areas:

- Public Law (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level)
- American Politics (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).
- Public Policy and Administration (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).
- Comparative Politics (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).
- Political Theory (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).
- International Relations (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).
- Methodology (chosen from among courses listed in bulletin at the 1000, 2000, or 3000 or 4000 level).

At least 15 hours of political science course work must be at the 3000 or 4000 level, including POL SCI 3950 (p. 222) Senior Seminar. B.A. degree students may take a maximum of 3 hours of political science on a satisfactory/ unsatisfactory basis; this can include any course except the required courses in the core curriculum.

Note: As early as possible, students should determine their educational objectives and consult with an adviser regarding a plan of study. Those students who are uncertain of their future plans are urged to include in their 36-45 hours of political science a broad set of courses in American politics, public policy and administration, public law, comparative politics, international politics, political theory, and methodology. In addition to this general course of study in political science, the department offers B.A. degree students several specialized programs of study in political science geared to various student academic and career interests.

Graduate School Preparation

This program is designed for students planning to pursue graduate studies in political science, particularly the Ph.D. degree, with the aim of a career as either an academic or practitioner (working as a researcher, policy analyst, or in some other capacity calling for advanced knowledge and

skills). In addition to the core curriculum and common requirements for all political science majors, students are advised to:

- take as many political science courses at the 2000 and 3000 or 4000 level as possible in a variety of areas (public law, American politics, comparative and international politics, etc.),
- complete a departmental honors project based on independent research and writing in POL SCI 3900, Special Readings, and
- give special consideration to courses in normative political theory (such as POL SCI 2620, Modern Political Thought) and research methods (such as, Introduction to Policy Research, which is a graduate course open to undergraduates with Graduate School approval).

Students are also encouraged to take course work outside the department in microeconomics, macroeconomics, and statistics.

Legal Studies

POL SCI 1200

This is an ideal program of study for double majors in political science and criminal justice or for any student interested in law school and a career in the law. In addition to the core curriculum and common requirements for all political science majors, students are advised to take:

Foundations Of Law: An Introduction To Legal

Students are also advised to take political science course work that gives them a strong background in American political institutions and processes. Those students considering practicing law in the international arena should take course work in comparative and international politics. Political science course work may be supplemented by course work in criminal justice and criminology.

American Politics

Designed for those students interested in careers in communications, education, business, social work, political consulting, and other fields requiring knowledge of American urban, state, and national politics and institutions. Education majors planning to teach in the social studies field, communications majors planning on a career in journalism, or business majors thinking about working in corporate relations may especially wish to consider a double major in political science with a focus in this area. In addition to the core curriculum and common requirements for all majors, students are advised to take:

Select at least five of the following:	
POL SCI 2280 Judicial Politics And Policy	

	POL SCI 2300	State Politics
	POL SCI 2320	African Americans And The Political System
	POL SCI 2350	Introduction To Urban Politics
	POL SCI 2380	The Politics of Gender in the United States
	POL SCI 2420	Introduction To Public Policy
	POL SCI 2650	American Political Thought
	POL SCI 2820	United States Foreign Policy
	POL SCI 2900	Studies In Political Science (when appropriate)
	POL SCI 3300	The American Presidency
	POL SCI 3330	Introduction To Political Behavior
	POL SCI 3331	Congressional Politics
	POL SCI 3340	Politics And The Media
	POL SCI 3350	Political Parties And Elections
	POL SCI 3390	Studies In American Politics
	POL SCI 3480	Environmental Politics
	POL SCI 3900	Special Readings (when appropriate)
	POL SCI 3940	Public Affairs Internship (when appropriate)
-		·

DOL COLORON State Delition

Total Hours

15

In addition, students may wish to choose other political science courses listed below under the public policy and administration program of study. Given the growing reality of international interdependence, students should not restrict their studies completely to American politics but should take some course work in comparative and international politics as well. Depending on their specific career interest, students may wish to round out their program with course work in other social science departments such as criminal justice, communications, economics, or social work.

15

Public Policy and Administration

Designed for students interested in working inside or outside government, in a career requiring familiarity with how public policies are formulated and implemented. (Students alternatively may wish to consider the B.S. in public policy and administration degree offered by the political science department.) In addition to the core curriculum and common requirements for all majors, students are advised to take:

POL SCI 2420	Introduction To Public Policy	3
Select four of the	following:	12
POL SCI 2400	Public Administration	
POL SCI 2820	United States Foreign Policy	
POL SCI 2900	Studies In Political Science (when appropriate)	
POL SCI 3420	Public and NonProfit Personnel Management	
POL SCI 3440	Public and NonProfit Budgeting	
POL SCI 3450	Urban Administration	
POL SCI 3460	The Politics Of Poverty And Welfare	
POL SCI 3480	Environmental Politics	
POL SCI 3570	Gender, Ethnicity and Public Policy	
POL SCI 3900	Special Readings (when appropriate)	
POL SCI 3940	Public Affairs Internship (when appropriate)	
POL SCI 4460	Urban Planning And Politics	
POL SCI 4510	Comparative Public Policy And Administration	
Total Hours		15

Depending on career interests, students should add course work in American, comparative, or international politics. Students are encouraged to develop a policy concentration in a particular policy area, such as urban, labor, health, education, and business studies, with multidisciplinary course work taken in political science and other departments.

International and Comparative Studies

Designed for students interested in international careers in government service (not only the U.S. State Department but also other federal government agencies), intergovernmental and non-governmental organizations, business, education, and other areas of employment. In addition to the core curriculum and common requirements for all political science majors, students are advised to take:

POL SCI 1800	World Politics	3
POL SCI 2350	Introduction To Urban Politics	3
Select at least fou	r of the following: 1	12
POL SCI 1600	Contemporary Political Ideologies	
POL SCI 1820	Global Issues	
POL SCI 2510	The Politics of European Union	
POL SCI 2520	Middle Eastern Politics	
POL SCI 2530	Political Systems Of South America	
POL SCI 2540	Political Systems Of Mexico, Central America And The Caribbean	
POL SCI 2580	African Politics	
POL SCI 2820	United States Foreign Policy	
POL SCI 2900	Studies In Political Science (when appropriate)	
POL SCI 3570	Gender, Ethnicity and Public Policy	
POL SCI 3595	Studies In Comparative Politics	
POL SCI 3690	The Marxist Heritage	
POL SCI 3830	International Political Economy	
POL SCI 3850	International Organizations And Global Problem- Solving	
POL SCI 3860	Studies In War And Peace	
POL SCI 3890	Studies In International Relations	
POL SCI 3900	Special Readings (when appropriate)	
POL SCI 3940	Public Affairs Internship (when appropriate)	
POL SCI 4510	Comparative Public Policy And Administration	
POL SCI 4850	International Law	
Total Hours		18

Some of which are international politics courses that focus on conflict and cooperation between countries, and some of which are comparative politics courses that focus on political, economic, and social change within countries.

Students interested in working for the U.S. Foreign Service, Americanbased multinational companies, and nonprofit organizations should also take course work that familiarizes them with the American political system and how public policy is made. Students should explore the various interdisciplinary area studies and international studies certificate programs offered through the Center for International Studies.

Bachelor of Science in Public Policy and Administration

The BSPA degree has three emphasis areas. The first is a public administration track, which emphasizes management in both the public and nonprofit sectors; it may produce a terminal degree or be a precursor to graduate training. The second is a public policy track in which a student may focus on a particular policy area and also acquire specialized analytic training and research skills, in preparation for relevant entry-level jobs in the public or the voluntary sector as well as in certain parts of the private sector. The third emphasis area focuses explicitly on the administrative and leadership concerns of organizations in the nonprofit sector, which constitutes a growing field of research and employment opportunities.

All BSPA majors must complete at least 33, but no more than 45, hours in political science. The following core curriculum is required of all BSPA majors:

Political Science

POL SCI 1100 (p. 222)	Introduction To American Politics	3
POL SCI 1500 (p. 222)	Introduction To Comparative Politics	3
POL SCI 2000 (p. 222)	Political Analysis	3
POL SCI 2400 (p. 222)	Public Administration	3
POL SCI 2420 (p. 222)	Introduction To Public Policy	3
POL SCI 3940 (p. 222)	Public Affairs Internship	1-6
POL SCI 3950 (p. 222)	Senior Seminar In Political Science	3
ECON 1001 (p. 222)	Principles Of Microeconomics	3
ECON 1002		3
CRIMIN 2220 (p. 222)	Statistical Analysis In Criminology And Criminal Justice	4
or SOC 3220 (p. 222)	Social Statistics	
or ECON 3100 (p. 222)	Economic Statistics	
Total Hours		29-3

In addition, students must provide a demonstration of computer proficiency through one of the following:

- INFSYS 1800 (p. 222) Computers and Information Systems, extension courses, or other study approved by the BSPA coordinator.
- BSPA students may take a maximum of 3 hours of political science on a satisfactory/ unsatisfactory basis, except for the following (which may not be taken on a satisfactory/unsatisfactory basis):

POL SCI 1100 (p. Introduction To American Politics 222)	3
POL SCI 1500 (p. Introduction To Comparative Politics 222)	3
POL SCI 2400 (p. Public Administration 222)	3
POL SCI 2000 (p. Political Analysis 222)	3
POL SCI 2420 (p. Introduction To Public Policy 222)	3
POL SCI 3940 (p. Public Affairs Internship 222)	1-6

POL SCI 3950 (p. 222)	Senior Seminar In Political Science	3
POL SCI 1100	Introduction To American Politics	3
POL SCI 1500	Introduction To Comparative Politics	3
POL SCI 2400	Public Administration	3
POL SCI 2000	Political Analysis	3
POL SCI 2420	Introduction To Public Policy	3
POL SCI 3940	Public Affairs Internship	1-6
POL SCI 3950	Senior Seminar In Political Science	3

Public Administration Emphasis Area

In addition to the core curriculum requirements for all BSPA majors, students in the public administration emphasis area are required to complete the following courses:

POL SCI 3420 (p. Public and NonProfit Personnel Management 222)	3
POL SCI 3440 (p. Public and NonProfit Budgeting 222)	3
POL SCI 2400 (p. Public Administration 222)	3
Select two of the political science courses listed under policy and institutions courses below.	6
Select at least two additional elective courses chosen from among that list or any other political science offerings.	6
Total Hours	21

Public Policy Emphasis Area

In addition to the core curriculum requirements for all BSPA majors, students in the public policy emphasis area must take four political science courses, preferably selected from the policy and institutions courses listed below but which may include other political science course offerings as well.

Policy and Institutions Courses

i oney and motitue	ions oourses	
Select four of the fo	ollowing:	12
POL SCI 1450 li (p. 222)	ntroduction To Labor Studies	
POL SCI 2280 J (p. 222)	Judicial Politics And Policy	
POL SCI 2300 S (p. 222)	State Politics	
POL SCI 2350 II (p. 222)	ntroduction To Urban Politics	
POL SCI 3300 T (p. 222)	The American Presidency	
POL SCI 3331 ((p. 222)	Congressional Politics	
POL SCI 3430 U (p. 222)	Union Leadership And Administration	
POL SCI 3450 U (p. 222)	Urban Administration	
POL SCI 3460 T (p. 222)	The Politics Of Poverty And Welfare	
POL SCI 3480 E (p. 222)	Environmental Politics	

POL SCI 4460 Urban Planning And Politics (p. 222) POL SCI 4510 Comparative Public Policy And Administration (p. 222) Other political science course offerings.

Total Hours 12

Students will adopt a policy concentration of at least 15 credit hours. Possible areas of specialization include, but are not limited to, environmental policy, government and business, society and the legal system, urban policy, labor studies, health care, human services, and nonprofit service provision. In fulfilling the concentration requirement, students, in consultation with the BSPA coordinator, will select courses from related disciplines in addition to taking two more political science courses related to the policy area.

Nonprofit Emphasis Area

In addition to the core curriculum requirements for all BSPA majors, students in the nonprofit emphasis area are required to complete the following courses:

POL SCI 3420 (p. Public and NonProfit Personnel Management 222)	3
POL SCI 3440 (p. Public and NonProfit Budgeting 222)	3
or POL SCI 2400 Public Administration (p. 222)	
POL SCI 3700 (p. NonProfit Organizations and Public Policy 222)	3
POL SCI 3710 (p. NonProfits, Civil Society and Volunteerism 222)	3
Total Hours	12

In addition, the Public Affairs Internship (POL SCI 3940 (p. 222)) required for the BSPPA must be conducted through a nonprofit organization.

Note: Students considering the B.S. in public policy and administration should see a political science adviser as early as possible to plan their program.

Requirements for the Minors

A general minor in political science can be arranged, as well as specialized minors in eight different subfields of the discipline. Interested students should see a faculty adviser to plan a coherent program of study as a minor field.

Students must achieve a cumulative 2.0 GPA in the political science courses chosen to qualify for the minor. Students may count no more than 3 hours in political science taken on a satisfactory/unsatisfactory basis toward the minor. Students taking an internship POL SCI 3940 (p. 222) may count no more than three hours of the internship toward the minor.

Minor in Political Science, General

Fifteen hours, chosen from among all political science courses.

Minor in American Politics		POL SCI 35/0 Gender, Ethnicity and Public Policy	
Select five of the following:	15	(p. 222) POL SCI 3595 Studies In Comparative Politics	
POL SCI 1100 Introduction To American Politics		(p. 222)	
(p. 222)		POL SCI 3900 Special Readings (when appropriate)	
POL SCI 2280 Judicial Politics And Policy		(p. 222)	
(p. 222)		POL SCI 4510 Comparative Public Policy And Administration	
POL SCI 2300 State Politics		(p. 222)	
(p. 222)		Total Hours	1
POL SCI 2320 African Americans And The Political System (p. 222)		Minor in International Relations	
POL SCI 2350 Introduction To Urban Politics (p. 222)		Select five of the following:	1
POL SCI 2380 The Politics of Gender in the United States (p. 222)		POL SCI 1800 World Politics (p. 222)	
POL SCI 2420 Introduction To Public Policy (p. 222)		POL SCI 1820 Global Issues (p. 222)	
POL SCI 2650 American Political Thought (p. 222)		POL SCI 2520 Middle Eastern Politics (p. 222)	
POL SCI 2820 United States Foreign Policy (p. 222)		POL SCI 2820 United States Foreign Policy (p. 222)	
POL SCI 3260 The Supreme Court (p. 222)		POL SCI 3830 International Political Economy (p. 222)	
POL SCI 3300 The American Presidency (p. 222)		POL SCI 3850 International Organizations And Global Problem- (p. 222) Solving	
POL SCI 3331 Congressional Politics (p. 222)		POL SCI 3860 Studies In War And Peace (p. 222)	
POL SCI 3330 Introduction To Political Behavior (p. 222)		POL SCI 3890 Studies In International Relations (p. 222)	
POL SCI 3340 Politics And The Media (p. 222)		POL SCI 3900 Special Readings (when appropriate) (p. 222)	
POL SCI 3350 Political Parties And Elections (p. 222)		POL SCI 3940 Public Affairs Internship (when appropriate) (p. 222)	
POL SCI 3390 Studies In American Politics (p. 222)		POL SCI 4850 International Law (p. 222)	
POL SCI 3900 Special Readings (when appropriate) (p. 222)		Total Hours	1:
POL SCI 3940 Public Affairs Internship (when appropriate) (p. 222)		Minor in Nonprofit Administration (Pending CBHE approval)	
Total Hours	15		4.
Maria de la companya		Select five of the following:	1
Minor in Comparative Politics		POL SCI 3420 Public and NonProfit Personnel Management POL SCI 3440 Public and NonProfit Budgeting	
POL SCI 1500 (p. Introduction To Comparative Politics	3	POL SCI 2400 Public Administration	
222)		POL SCI 3700 NonProfit Organizations and Public Policy	
Select four of the following:	12	POL SCI 3710 NonProfits, Civil Society and Volunteerism	
POL SCI 2500 Comparing Different Worlds		POL SCI 3940 Public Affairs Internship (must be conducted	
(p. 222)		through a nonprofit organization)	
POL SCI 2510 The Politics of European Union (p. 222)		Total Hours	1
POL SCI 2530 Political Systems Of South America (p. 222)		Minor in Political Theory	
POL SCI 2540 Political Systems Of Mexico, Central America And		Select five of the following:	1
(p. 222) The Caribbean POL SCI 2580 African Politics		POL SCI 1600 Contemporary Political Ideologies (p. 222)	
(p. 222)		POL SCI 2610 Ancient And Medieval Political Thought (p. 222)	

POL SCI 2620 Modern Political Thought (p. 222)		Minor in Public Policy	
POL SCI 2650 American Political Thought (p. 222)		POL SCI 2420 (p. Introduction To Public Policy 222)	3
POL SCI 3690 The Marxist Heritage		Select four of the following:	12
(p. 222)		POL SCI 2300 State Politics	
POL SCI 3900 Special Readings (when appropriate)		(p. 222)	
(p. 222)		POL SCI 2350 Introduction To Urban Politics (p. 222)	
Total Hours	15	POL SCI 2400 Public Administration	
Minor in Public Administration		(p. 222)	
POL SCI 2400 (p. Public Administration 222)	3	POL SCI 3300 The American Presidency (p. 222)	
Select four of the following:	12	POL SCI 3440 Public and NonProfit Budgeting (p. 222)	
POL SCI 2420 Introduction To Public Policy		POL SCI 3450 Urban Administration	
(p. 222)		(p. 222)	
POL SCI 3420 Public and NonProfit Personnel Management (p. 222)		POL SCI 3460 The Politics Of Poverty And Welfare (p. 222)	
POL SCI 3440 Public and NonProfit Budgeting (p. 222)		POL SCI 3480 Environmental Politics (p. 222)	
POL SCI 3450 Urban Administration (p. 222)		POL SCI 3570 Gender, Ethnicity and Public Policy (p. 222)	
POL SCI 3900 Special Readings (when appropriate) (p. 222)		POL SCI 3900 Special Readings (when appropriate) (p. 222)	
POL SCI 3940 Public Affairs Internship (when appropriate) (p. 222)		POL SCI 3940 Public Affairs Internship (when appropriate) (p. 222)	
POL SCI 4460 Urban Planning And Politics (p. 222)		POL SCI 4460 Urban Planning And Politics (p. 222)	
POL SCI 4510 Comparative Public Policy And Administration (p. 222)		POL SCI 4510 Comparative Public Policy And Administration (p. 222)	
Total Hours	15	Total Hours	15
Minor in Public Law		Minor in Urban Politics	
Select five of the following:	15	POL SCI 2350 (p. Introduction To Urban Politics	3
POL SCI 1200 Foundations Of Law: An Introduction To Legal (p. 222) Studies		222)	40
(p. 222) Studies POL SCI 2260 Law, Politics and Society		Select four of the following: POL SCI 2320 African Americans And The Political System	12
(p. 222)		(p. 222)	
POL SCI 2280 Judicial Politics And Policy (p. 222)		POL SCI 3450 Urban Administration (p. 222)	
POL SCI 2290 Gender And The Law (p. 222)		POL SCI 3460 The Politics Of Poverty And Welfare (p. 222)	
POL SCI 3200 Constitutional Law (p. 222)		POL SCI 3900 Special Readings (when appropriate) (p. 222)	
POL SCI 3210 Civil Liberties (p. 222)		POL SCI 3940 Public Affairs Internship (when appropriate) (p. 222)	
POL SCI 3260 The Supreme Court (p. 222)		POL SCI 4460 Urban Planning And Politics (p. 222)	
POL SCI 3900 Special Readings (when appropriate) (p. 222)		Total Hours	15
POL SCI 4850 International Law		Minor in Women and Politics	
(p. 222) Total Hours	15	POL SCI 1550 (p. Women And Politics In The Developing World 222)	3
		Select four of the following:	12

3

POL SCI 2290 Gender And The Law
(p. 222)

POL SCI 2380 The Politics of Gender in the United States
(p. 222)

POL SCI 3460 The Politics Of Poverty And Welfare
(p. 222)

POL SCI 3570 Gender, Ethnicity and Public Policy (Comparative)
(p. 222)

POL SCI 3590 Women and Leadership World-Wide: Breaking the
(p. 222) Glass Ceiling

POL SCI 3900 Special Readings (consent of instructor required)
(p. 222)

Outstanding BSPPA students may want to consider theBSPPA/MPPA 2+3 program (p. 491). This accelerated program allows students to complete a BS degree and Master of Public Policy Administration (MPPA) degree in five years. The program allows students to apply 12 of the MPPA credit hours towards the BS, reducing the overall required hours for the two degrees to 148 credit hours from the 160 credit hours required when taking the programs separately (120 are required for the BS and 40 for the MPPA). Please see the PPA section of the Bulletin for specific information.

Undergraduate Certificate in Women, Political Leadership and Public Policy

5 courses from among the following course options:

POL SCI 1550 Women And Politics In The Developing World (p. 222)

POL SCI 2290 Gender And The Law (p. 222)

POL SCI 2380 The Politics of Gender in the United States (p. 222)

ECON 2410 Work, Families, And Public Policy (p. 222)

POL SCI 2510 The Politics of European Union (p. 222)

POL SCI 3460 The Politics Of Poverty And Welfare (p. 222)

POL SCI 3570 Gender, Ethnicity and Public Policy (p. 222)

POL SCI 3590 Women and Leadership World-Wide: Breaking the (p. 222) Glass Ceiling

POL SCI 3950 Senior Seminar In Political Science (topic specific, (p. 222) with consent)

Capstone Option

POL SCI 2900 Studies In Political Science (p. 222)

POL SCI 3900 Special Readings

(p. 222)

Total Hours

POL SCI 3940 Public Affairs Internship

(p. 222)

Total Hours 18

Bachelor of Arts with Teacher Certification

For information, refer to the Secondary Education section in this Bulletin.

Bachelor of Science in Education: Emphasis in Social Studies

The Political Science requirements are the same as for the B.A. degree except students fulfill the College of Education general education requirements rather than those of the College of Arts and Sciences. For information, refer to the College of Education section in this Bulletin.

Career Overview

15

Bachelor of Arts, Bachelor of Science, and Master of Arts in Political Science

Political science graduates have done well in obtaining appropriate employment and in pursuing graduate education. Majors develop communications and decision-making skills, learn to analyze complex policy issues, both domestic and international in scope, and have a thorough understanding of government and politics. Political science is a particularly good undergraduate major for pre-law students. Many other majors pursue graduate education in business, education, public administration, public policy administration, journalism, public relations, non-profit organizations, and many other fields.

Graduate Studies

The department offers the MA and PhD in Political Science. Qualified students may enter the MA through two different routes, either as graduates with a baccalaureate degree or as exceptional undergraduates in the program via a 2 + 3 program.

Master of Arts in Political Science

Admission Requirements: For admission, a student should have a baccalaureate degree with a minimum grade point average of 2.75 and an undergraduate background in the social sciences. The GRE is required, and scores should be submitted at the time of application. Two letters of recommendation are also requested for each student applying to the program. Students who do not meet these requirements may be admitted upon approval of the department and the dean of the Graduate School. Application materials may be obtained from and should be returned to the office of the director of admissions.

Deadlines are July 1 for the fall semester; December 1 for the winter semester; and May 1 for the summer term.

Degree Requirements

Beyond the general requirements of the Graduate School, the department requires a minimum of 27 semester hours of course work, of which 18 hours must be at the 6400 level and 12 hours must be in core courses in political science, including:

POL SCI 6401 (p. Introduction To Policy Research 222)

Select three of the following:

POL SCI 6410 Introduction To Policy Analysis (p. 222)

POL SCI 6420 Proseminar In Public Law (p. 222)

POL SCI 6430 Proseminar In American Politics

(p. 222)

3

POL SCI 6440 Proseminar In Public Policy Administration (p. 222)	
POL SCI 6450 Proseminar In Comparative Politics (p. 222)	
POL SCI 6470 Proseminar In Urban Politics (p. 222)	
POL SCI 6480 Proseminar In International Relations (p. 222)	

Total Hours 12

Students can plan their degree program to reflect the following six emphasis areas:

- · American Politics
- · Comparative Politics
- International Politics
- · Political Process and Behavior
- Public Administration and Public Policy
- · Urban and Regional Politics

Students must also select one of the following exit projects: a six-hour thesis, a six-hour internship, or six hours of additional course work and an approved paper. Students will have a mid-program review at the end of 12-15 hours of course work, at which time they will discuss their academic performance and program with a faculty committee and determine the most appropriate exit project. Each candidate is given a final oral review conducted by a faculty committee and focused on the course work completed and the student's chosen exit project.

2+3 B.A. and M.A. in Political Science

The 2+3 Combined BA/MA program in Political Science provides an opportunity for students of recognized academic ability and educational maturity to complete the requirements for both degrees in 5 years of fulltime study.

The combined program requires a minimum of 140 credit hours of which at least 33 must be at the graduate level in political science. In qualifying for the BA, students must meet all University and College requirements. Students in the combined 2+3 who successfully complete the requirements for the MA degree will be awarded a BA degree simultaneously upon completion of at least 107 hours of undergraduate credit.

Student should apply to the Department for admission to the 2+3 combined degree program in Political Science during the semester they will complete 60 undergraduate credit hours. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required. Students will be admitted to the 2+3 program under provisional status until they have completed 30 hours in that program with a grade point of 3.0 or higher. After completion of the provisional period, with the recommendation of the Graduate Director, students can be granted full admission into the 2+3 program.

Students must maintain a grade point average of 3.0 or higher throughout the combined program. Students who officially withdraw from the 2+3 combined degree program, who have successfully completed all the regular requirements for the BA degree (120 hours) will be awarded their BA degree.

Undergraduate Requirements for Student in the 2+3 Program

A. The following must be completed prior to enrolling in the 2+3 program

POL SCI 1100 (p. 222)	. Introduction To American Politics	3
POL SCI 1500 (p. 222)	. Introduction To Comparative Politics	3
Select two of the	following:	6
POL SCI 1600 (p. 222)	Contemporary Political Ideologies	
POL SCI 1800 (p. 222)	World Politics	
POL SCI 2300 (p. 222)	State Politics	
POL SCI 2350 (p. 222)	Introduction To Urban Politics	
POL SCI 2400 (p. 222)	Public Administration	
POL SCI 2650 (p. 222)	American Political Thought	
Total Hours		12

B. Undergraduate Requirements Within the 2+3

Program		
Select two of the f	following:	6
POL SCI 2280 (p. 222)	Judicial Politics And Policy	
POL SCI 2620 (p. 222)	Modern Political Thought	
POL SCI 3200 (p. 222)	Constitutional Law	
POL SCI 3210 (p. 222)	Civil Liberties	
POL SCI 3300 (p. 222)	The American Presidency	
POL SCI 3331 (p. 222)	Congressional Politics	
POL SCI 3350 (p. 222)	Political Parties And Elections	
POL SCI 3470 (p. 222)	Collective Bargaining	
POL SCI 3480 (p. 222)	Environmental Politics	
Select two of the f	following:	6
POL SCI 2510 (p. 222)	The Politics of European Union	
POL SCI 2520 (p. 222)	Middle Eastern Politics	
POL SCI 2530 (p. 222)	Political Systems Of South America	

POL SCI 2540 Political Systems Of Mexico, Central America And

The Caribbean

POL SCI 2580 African Politics

(p. 222)

(p. 222)

	POL SCI 3690 (p. 222)	The Marxist Heritage (PHIL 3369; INTDSC 3690)	
	POL SCI 3830 (p. 222)	International Political Economy	
	POL SCI 3850 (p. 222)	International Organizations And Global Problem- Solving	
	POL SCI 4850 (p. 222)	International Law	
Select one additional course from B-1 or B-2.			3
To	otal Hours		15
С	. Graduate	Requirements	
P(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Introduction To Policy Research	3

Select three of the following:

POL SCI 6420 Proseminar In Public Law
(p. 222)

POL SCI 6430 Proseminar In American Politics (p. 222)

POL SCI 6440 Proseminar In Public Policy Administration (p. 222)

POL SCI 6450 Proseminar In Comparative Politics (p. 222)

POL SCI 6470 Proseminar In Urban Politics (p. 222)

POL SCI 6480 Proseminar In International Relations (p. 222)

Select five additional graduate Political Science classes. 1

Select Exit Project or Internship or Thesis

4. Other translation of the control of the Assertice Building Building

Students should select an emphasis in American Politics, Public Policy, Comparative Politics, Political Theory, or International Relations

Summary of Credits in Political Science:

BA: 27 hours

Total Hours

- (12 completed in lower division courses before admission to the 2+3 program)
- MA: 33 hours at the graduate level
- TOTAL: 60 hours in Political Science classes

Ph.D. in Political Science

The doctoral program emphasizes theoretical, analytic, and substantive approaches to public policy analysis and administration. Students are provided an opportunity to link core skills in policy analysis and political science with substantive emphasis in specific policy areas. The program is designed to prepare pre-career and mid-career students for advanced positions in policy research and administration, as well as for academic research and teaching.

Admission Requirements

Admission and financial aid decisions are made on the basis of past academic record, intellectual ability, and career commitment and performance. Applications are accepted from students who have either

baccalaureate or master's degrees. Past graduate work will be credited toward degree requirements as appropriate. Applicants must submit:

- 1. complete academic transcripts,
- 2. three letters of recommendation,
- 3. aptitude tests of the GRE and
- 4. a statement of objectives for the course of study.

Application materials may be obtained from and should be returned to the office of the director of admissions. Applications for fall semester should be submitted by February 15 and for winter semester by October 15.

Graduate Assistantships Stipends for teaching and research assistantships (nine month/20 hours per week) are awarded on a competitive basis. Out-of-state educational fees are waived for graduate assistants.

Degree Requirements

The department requires 60 credit hours beyond the baccalaureate degree for completion of the Ph.D. To ensure sufficient background for doctoral-level policy courses, students must demonstrate appropriate competence in computing and intermediate economics during their course of study. Course requirements are as follows:

Core courses

(18 credit hours)

9

15

6

33

- 18 credit hours will be required in the areas of research methods, and policy process and institutions. Contact the department for specific courses.
- Additional Requirements (12 credit hours)
- In addition, students will select a minimum of 12 credit hours in public policy, theory, or process as they apply to major subfields in political science.

Policy Concentration

(24 credit hours)

Students, in consultation with the program director, will develop expertise in a substantive policy area. Policy concentrations (many interdisciplinary) include but are not limited to:

- · American National Policy
- · Urban Politics and Planning
- Comparative/International Policy
- Policy Analysis and Research Social Welfare

Internship

(6 credit hours) optional

The Ph.D. intern program offers an opportunity to gain first-hand experience in select research and administrative positions.

General Examination and Dissertation

Upon completion of course work, students are advanced to candidacy by successfully completing three general examinations,

- 1. public policy institutions, processes, and analysis,
- 2. methodology, and

3. the student's chosen subfield and area of policy concentration.

The degree is awarded upon completion and defense of the Ph.D. dissertation.

Career Outlook

Ph.D. in Political Science

The Ph.D. in political science prepares students for three career areas:

- government leadership and management positions at the local, state, and federal levels (both for new employees and in-service employees);
- careers in the private sector, particularly positions in public affairs, policy research, and governmental relations departments of corporations, as well as consulting firms and nonprofit organizations; and
- 3. research and teaching careers in academic institutions.

Requests for further information about the M.A. or Ph.D. program should be sent to the Director of Graduate Studies, Department of Political Science, University of Missouri-St. Louis, One University Blvd, 347 SSB, St. Louis, MO 63121-4499 or by e-mail: umslpolisci@umsl.edu.

Courses

POL SCI 1100 Introduction To American Politics: 3 semester hours Introduction to basic concepts of government and politics with special reference to the United States, but including comparative material from other systems. Course fulfills the state requirement.

POL SCI 1200 Foundations Of Law: An Introduction To Legal Studies: 3 semester hours

Same as CRIMIN 1200. As a broad liberal-arts approach to the study of law, this course is designed to familiarize students with legal ideas, legal reasoning, and legal processes. It also provides comparative and historical perspectives on law that will help explain legal diversity and legal change. Finally, it offers opportunities to explore some of the persistent issues in law and legal theory: for example, issues about the sources of law, the responsibilities of the legal profession, or the relative merits of the adversary system.

POL SCI 1450 Introduction To Labor Studies: 3 semester hours

(Same as Interdisciplinary 1450)This course covers many topics important to the role of unions in the American political system and American society from a labor perspective. Topics include the role of workers in current and future times, unions' institutional structure, collective bargaining strategies and obstacles for union organizing, recent union campaigns, labor's political role, and the relationship between labor and the media.

POL SCI 1500 Introduction To Comparative Politics: 3 semester hours

This course introduces students to western and non-western systems. It examines similarities and differences in the basic political ideologies, structures, economies, social institutions and governmental processes of developed and developing countries. It also provides frameworks for understanding the cultures of the world that are the basis for formal economic and political institutions. In addition, the course examines the role of non-state institutions, including trans-national ones, in shaping national policies. It uses case studies from Africa, Asia, Latin America, as well as Europe, to enhance student understanding of comparative politics. (This course fulfills the cultural diversity requirement.).

POL SCI 1550 Women And Politics In The Developing World: 3 semester hours

Women play a central role in the transformation of political, economic, cultural and gender relations in developing nations. This course examines the political role of women in these transformations. In particular, the course examines: 1) ways that modernity, universal education,the market economy and globalization have widened the scope of women's public activities; 2) the emergence of social movements driven by the transformation of economic and political roles brought about by the inclusion of women in the political arena; 3) the re-interpretation of religious doctrines, especially those that emphasize women's "return" to the private sphere and thelegitimate denial of women's political rights. Fulfills the Cultural Diversity requirement.

POL SCI 1600 Contemporary Political Ideologies: 3 semester hoursAn introduction to the major political ideologies of the world today.
Emphasis is placed on democracy, feminism, Marxism, and nationalism.

POL SCI 1800 World Politics: 3 semester hours

An introduction to the field of international relations, covering such topics as nationalism, power, foreign policymaking, diplomacy, war, arms control and disarmament, interdependence, the regulation of conflict, and other aspects of politics among nations.

POL SCI 1820 Global Issues: 3 semester hours

A freshman and sophomore level course designed to introduce students to a range of global concerns, including population, hunger, trade, energy, and the environment. The worldwide implications of these and other problems will be considered, as well as their effects on local communities such as st louis.

POL SCI 2000 Political Analysis: 3 semester hours

An introduction to political analysis, emphasizing both the logic of inquiry and practical methods. Students learn about the construction and evaluation of theories that relate to real-world politics. They also have an opportunity for handson experience with qualitative and quantitative methods including graphics, descriptive statistics, cross-tabular and correlational analysis, hypothesis testing, and computer applications.

POL SCI 2260 Law, Politics and Society: 3 semester hours

Same as CRIMIN 2226. Prequisites: POL SCI 1100 or POL SCI 1200
or consent of instructor. This course examines the ways in which law
in America connects with politics and society. The course will cover
the litigation process, access to the courts, how and why individuals
and groups bring litigation to pursue political and policy goals, and how
lawyers, judges and other political actors use law to solve policy problems.
Attention will be placed on current legal policy issues facing American
society.

POL SCI 2280 Judicial Politics And Policy: 3 semester hours

Prerequisites: POL SCI 1100 or POL SCI 1200 or consent of instructor This course is an examination of the American state and federal legal systems. Topics examined in this course include an analysis of the structure, organization and fundation of courts. Emphasis will be placed on the role of juries, judges, attorneys, litigants, and interest groups in the judicial system. The objective of the course is to evaluate courts as political institutions and analyze the policy-making role of judges.

POL SCI 2290 Gender And The Law: 3 semester hours

Same as GS 2290. This course examines the ways in which laws and interpretations of the laws affect gender equality in the United States. Emphasizing how traditional roles impact both women and men historically and currently, the course highlights major pieces of legislation and court rulings related to employment, economics, education, sexual harassment, pornography, rape, reproductive rights, and domestic relations. The course stresses the impact of federal and state institutions and non-governmental influences on equality. It also addresses gender representation in the legal profession and its effect on judicial decisions. (This course satisfies State requirements in American History and Government).

POL SCI 2300 State Politics: 3 semester hours

Prerequisite: POL SCI 1100 Or Consent Of Instructor An Examination Of Contemporary State Politics In The U.S. Social, Economic And Political Determinants Of Policies; Federal-State-Local Relations, Elections, Interest Groups And Participation; Executive Legislative And Judical Institutions And Processes, Policies And Their Impact. Course Fulfils The State Requirement.

POL SCI 2320 African Americans And The Political System: 3 semester hours

Prerequisites: POL SCI 1100 or consent of instructor. Examination of the status of African Americans in the context of the American political system. The course will focus on a number of issues, including: attitudes of various publics toward racial concerns; nature of problems in specific policy areas (e.g., unemployment, school desegregation, housing, poverty); representation of African Americans in governmental institutions and the private sector; and the role of AfricanAmerican leadership and civil rights groups in the political process. Course fulfills the state requirement.

POL SCI 2350 Introduction To Urban Politics: 3 semester hoursPrerequisite: POL SCI 1100 Or Consent Of Instructor. Examination
Of Structure And Process Of Politics In The Urban Community, With
Emphasis On Their Relationships To Community Power Structures.
Course Fulfils The State Requirement.

POL SCI 2380 The Politics of Gender in the United States: 3 semester hours

Same As GS 2380. Prerequisites: POL SCI 1100 or consent of instructor. This course examines the role of gender in political institutions, practices and policy in the United States, past for political equality, the relationship between gender and political participation, vote choice, and public opinion, and how legislative, executive, and judicial offices are gendered at the national, state, and local levels. (This course satisfies State requirements in American History and Government.).

POL SCI 2400 Public Administration: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. Survey of Public Administration, with reference to organization, financial administration, personnel management, judicial control of the administrative process. Course fulfils state requirement.

POL SCI 2420 Introduction To Public Policy: 3 semester hoursPrerequisite: POL SCI 1100 or consent of instructor Study of differing approaches to understanding the public policy process. Course surveys the application of social science to public issues and problems. Course fulfills the state requirement.

POL SCI 2500 Comparing Different Worlds: 3 semester hoursThis course focuses on the role of political institutions, economic structures and social groups in explaining differences in forms of government and levels of socio-economic development. It explores in detail one or more of these themes in cases drawn from developing and developed nations.

POL SCI 2510 The Politics of European Union: 3 semester hours

Prerequisite: POL SCI 1500 or consent of instructor. The European Union has become the driving force in European economic and social development. This course assesses the changing nature of national identity and national sovereignty in Europe. It compares and contrasts key public policies, (single market, welfare, migration, gender mainstreaming, "democratic deficits"), along with core EU actors and institutions, and includes participation in the annual Midwest Model EU.

POL SCI 2520 Middle Eastern Politics: 3 semester hours

Prerequisite: POL SCI 1100, POL SCI 1500 Or Consent Of Instructor. Survey Of Political Movement Governments, And International Conflicts In The Middle East. Islam, Nationalism, Ideologies And Economic Systems Will Be Studied. The Effect Of Oil And The Military Will Also Be Considered. Course Fulfils The Non-Euro-American Requirement.

POL SCI 2530 Political Systems Of South America: 3 semester hours
Prequisites: POL SCI 1500 or consent of instructor. An introduction
to the study of the political systems of South America. Examination of
the cultural context that has shaped the political, economic, and social
development of states in the region. This course satisfies the Cultural
Diversity requirement.

POL SCI 2540 Political Systems Of Mexico, Central America And The Caribbean: 3 semester hours

Prequisites: POL SCI 1500 or consent of instructor. An introduction to the study of the political systems of Mexico, Central America, and the Caribbean. Examination of the cultural context that has shaped the political, economic, and social development of these countries. This course satisfies the Cultural Diversity requirement.

POL SCI 2550 East Asian Politics: 3 semester hours

An introduction to the study of the Chinese and Japanese political systems. Examination of the cultural context that has shaped the path of political development for both states. This course satisfies the Cultural Diversity requirement.

POL SCI 2580 African Politics: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An introduction to the nature of societies, governments, and international relations in Africa. The course deals with forms of governance on the continent, regional groupings of states, and persistent conflicts within and among states. Problems of economic undervelopment, food supplies, health and population trends, and cultural change are analyzed, along with the role of outside major power intervention. Fulfills the Cultural Diversity requirement.

POL SCI 2610 Ancient And Medieval Political Thought: 3 semester hours

Study of political thought from Plato to Machiavelli.

POL SCI 2620 Modern Political Thought: 3 semester hoursStudy of political thought from Machiavelli to the present.

POL SCI 2650 American Political Thought: 3 semester hoursHistory of political thought in the United States from Colonial times to the present.

POL SCI 2820 United States Foreign Policy: 3 semester hours

Prequisite: POL SCI 1100 or POL SCI 1500, or consent of Instructor. Examination of the factors influencing the formation and the execution of American foreign policy, with a focus on specific contemporary foreign policy issues.

POL SCI 2900 Studies In Political Science: 3 semester hours Selected topics in political science.

POL SCI 3200 Constitutional Law: 3 semester hours

Prerequisites: POL SCI 1100, or POL SCI 1200, or consent of the instructor. Study of leading American constitutional principles regarding legislative, executive, and judicial power, federalism, the commerce clause, and economic due process as they have evolved through the important decisions of the U.S. Supreme Court. Course fulfills the state requirement.

POL SCI 3210 Civil Liberties: 3 semester hours

Prequisite: POL SCI 1100, or POL SCI 1200, or POL SCI 3200, or consent of instructor. Civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and rights of defendents. Course fulfils the state requirement.

POL SCI 3220 Labor Law: 3 semester hours

Prerequisites: Consent of instructor In this course, participants will examine the role of government in the regulation of labor-management relations in the United States. While the focus of the course will be on federal laws regulating private sector labor relations, parallel issues addressed in the Railway Labor Act and state public sector labor relations law will also be covered. Specific topics include the legal framework for the organization of workers, definition of prohibited or unfair labor practices of employers and unions, legal regulation of the collective bargaining process, regulation of the use of economic weapons in labor disputes, enforcement of collective bargaining agreements and the regulation of internal trade union activities.

POL SCI 3260 The Supreme Court: 3 semester hours

Prerequisites: POL SCI 1100, or POL SCI 1200 or consent of the instructor An examination of the role, function and assertion of power by the U.S. Supreme Court in our constitutional democracy. Topics include an historical overview of the Supreme court, the process of selecting Supreme Court Justices, life in the Court, Supreme Court decision making, Supreme Court policymaking, implementation and impact of Court decisions and the role of the Supreme Court as a national policymaker. This course fulfills the state requirement.

POL SCI 3300 The American Presidency: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. Study of constitutional, political, legislative, and administrative roles played by the American chief executive in the development of public policy. Course fulfils state requirement.

POL SCI 3330 Introduction To Political Behavior: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An introduction to political behavior employing perspectives from both political psychology and political sociology. Subjects include political socialization, the character of public opinion, citizen participation, group dynamics, the social determination of reality, and the underlying bases of leadership and authority. Course fulfills the state requirement.

POL SCI 3331 Congressional Politics: 3 semester hours

Prequisite: POL SCI 1100 or consent of instructor. An examination of the Congress of the United States, its history and evolution, its contemporary politics, and its role in the national policy-making process. Topics include candidate recruitment, campaigns and elections, representation, committees, legislative leadership, roles and norms, voting alignments, lobbyists and interest groups, oversight of administration, and House-Senate comparisons, the role of Congress in foreign policy, economic policy, social-welfare policy will be examined.

POL SCI 3340 Politics And The Media: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An analysis of the role the media play in shaping American political life. The first part of the course examines the organizational structures, the economic and psychic incentives, and the social and professional norms that define how television and newspapers report news about public affairs. The second part then considers the nature of a mass-communications society by looking at how reality is defined, the susceptibility of mass publics to persuasion and propaganda, the peculiar form of media election campaigns, and the manner in which the media link changes the basic character of a citizenry.

POL SCI 3350 Political Parties And Elections: 3 semester hours Prerequisite: POL SCI 1100 Or Consent Of Instructor. Development, Organization, Functions, Activities Of Major And Minor Political Parties,

Pressure Groups, Election Administration, Especially In The United States.
Course Fulfills The State Requirement.

POL SCI 3390 Studies In American Politics: 3 semester hours
Prerequisite: POL SCI 1100 Or Consent Of Instructor. Selected Topics In
American Politics. May Be Repeated.

POL SCI 3420 Public and NonProfit Personnel Management: 3 semester hours

Prerequisite: POL SCI 1100, POL SCI 2400 or consent of instructor. A study of personnel practices in the public and nonprofit sectors, including recruitment, job development, labor relations, and administration of equal employment/ affirmative action Programs.

POL SCI 3430 Union Leadership And Administration: 3 semester hours

Prerequisites: Consent of instructor This course will focus on the roles and challenges of union leadership in a changing environment. Topics will include the union leader's roles as representative, organizer and educator as well as administrative responsibilities within the union and the relationship with enterprise management in both adversarial and participatory situations. Options for leadership style and organizational models will be discussed and explored in both theory and practice. Leaders will develop their skills of motivation, speaking strategic planning and managing complex campaigns and diverse organizations.

POL SCI 3440 Public and NonProfit Budgeting: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor Budgeting is the study of "who gets what" and who pays for it. This course examines the administration and politics of federal, state, and local government budgets. Students gain experience in interpreting budget documents and making budget choices, using electronic and other resources.

POL SCI 3450 Urban Administration: 3 semester hours

Prequisite: POL SCI 1100 or consent of instructor. Study of administrative machinery and practices of metropolitan government, how metropolitan areas organize themselves to provide services, how urban policies are made and implemented, how budgeting and personnel recruitment processes operate, and how these relate to urban policies. Course fulfills state requirement.

POL SCI 3460 The Politics Of Poverty And Welfare: 3 semester hours

Prerequisite: POL SCI 1100 Or Consent Of Instructor An Examination Of The Structure Of Income Inequality In The U.S. And Public Policies Designed To Redistribute Wealth And To Treat Poverty. The History Of Welfare Programs, The Growth Of The Welfare State, And Attempts To Cut Social Spending Are Closely Examined.

POL SCI 3470 Collective Bargaining: 3 semester hours

This course involves a study of collective bargaining processes including contract negotiations, contract administration, and methods for the resolution of bargaining disputes. Both theoretical and applied issues in collective bargaining will be addressed. Specific topics include the economic determination of bargaining power, legal constraints on the bargaining process, negotiation strategies and techniques, and the use of mediation and arbitration in the resolution of bargaining disputes.

POL SCI 3480 Environmental Politics: 3 semester hours

Prerequisites: POL SCI 1100 or consent of instructor This course examines the process of environmental policymaking and key environmental issues. Topics include national and international policies toward air and water pollution, energy use, solid and toxic waste disposal, global warming, overpopulation, and wilderness and wildlife conservation.

POL SCI 3570 Gender, Ethnicity and Public Policy: 3 semester hours
Prerequisite: POL SCI 1100, or POL SCI 1500, or consent of instructor.
Raises the question as to whether "more women in politics," stemming
from diverse economic, racial, ethnic backgrounds and age roups, will
necessarily result in better policies for women and men. Compares
gendered and racialized impacts of a wide array of public policies (in the
areas of education, employment health care, welfare, and reproductive
technologies) across a broad sample of advanced industrial societies.
Analyzes the "empowerment" potential of new equality policies being
generated at the international and supranational levels (e.g., in the UN and
the European Union).

POL SCI 3580 African Diasporas: Identity Politics And Transnational Communities: 3 semester hours

Prerequisites: POL SCI 1500 or consent of instructor. This course focuses on the role of Africa's regional and global diaspora(s) in the construction of post-modern identities, democratization and foreign policymaking in diverse countries.

POL SCI 3590 Women and Leadership World-Wide: Breaking the Glass Ceiling: 3 semester hours

Same as GS 3590. Prerequisites: POL SCI 1500 or consent of instructor. Compares women's day-to-day leadership and participation patterns across a wide variety of political-economic contexts, emphasizing their performance as elective and executive office holders. It examines the experiences of individual female leaders, the effect of country- specific nomination and recruitment strategies, party dynamics, and the larger political opportunity structure hindering or promoting the balanced participation of women and men in national leadership. Understanding how gender (the socially constructed meanings related to biological sex) operates within these specific contexts is a major concern.

POL SCI 3595 Studies In Comparative Politics: 3 semester hoursPrerequisites: POL SCI 1500 or consent of instructor. Selected topics in comparative politics. May be repeated.

POL SCI 3690 The Marxist Heritage: 3 semester hours

Same as PHIL 3369. An interdisciplinary study of Marx and leading Marxists, designed to evaluate their influence on recent political, economic, and social thought and institutions.

POL SCI 3700 NonProfit Organizations and Public Policy: 3 semester hours

Prerequisites: POL SCI 1100; Recommended: POL SCI 2420. This course explores the roles of nonprofit organizations in public policy issues through citizen advocacy and political participation. The course begins with an overview of the scope of the nonprofit sector and then examines its political and legal foundations in the U.S. Theories about civic engagement and the rights of association are considered. Students will gain practical knowledge about direct and grassroots lobbying by nonprofit organizations. Discussion and analysis of actual advocacy campaigns carried out through nonprofit effort will be included. The course also investigates the formation of nonprofit political action committees (PACs) and other so-called 527 organizations, as well as ethical abuses of the nonprofit form for political purposes.

POL SCI 3710 NonProfits, Civil Society and Volunteerism: 3 semester hours

Prerequisites: POL SCI 1100 and junior standing. This course introduces basic concepts about the role of voluntary action in democratic society, especially in the context of organizations in the nonprofit sector. Theories of civil society and social capital are explored. Selected approaches to leadership are considered, in addition to the variety of motivations for giving time and resources to the pursuit of social and political change. Students will gain practical skill development in the recruitment, training and utilization of volunteers. Through study of recent case examples, students will develop an appreciation for the characteristics of effective leadership and strategic use of volunteers. In addition, the course includes an overview of new technologies that are being used by voluntary organizations to enlist participation and strengthen commitment of supporters.

POL SCI 3830 International Political Economy: 3 semester hours
Prerequisite: POL SCI 1100 or POL SCI 1500, or consent of instructor.
This course provides an introduction to international political economy.
In particular, it will focus on the politics of international trade, finance, and investment. It will analyze the relationships between developed and developing countries and it will assess the relative usefulness of alternative frameworks for studying international political economy.

POL SCI 3850 International Organizations And Global Problem-Solving: 3 semester hours

Prequisites: POL SCI 1100, POL SCI 1200, or consent of the instructor. Introduction to the study of international organization. The course focuses on relationships between nation-states and "nonstate" actors (e.g., global intergovernmental organizations such as multinational corporations) in world politics and on the role of international institutions in such problem areas as economic development, management of resources, and control of violence across national boundaries.

POL SCI 3860 Studies In War And Peace: 3 semester hoursPrerequisite: POL SCI 1100, POL SCI 1500, or consent of instructor.

Exploration, development, and testing of theories about the causes and consequences of war, peace, and conflict among nations. A broad range of literature on war and peace will be reviewed, and applied to crisis situations in the international system.

POL SCI 3890 Studies In International Relations: 3 semester hoursPrerequisite: POL SCI 1100, POL SCI 1500, or consent of instructor.
Selected topics in international relations. May be repeated.

POL SCI 3900 Special Readings: 1-10 semester hoursPrerequisite: Consent of instructor. Independent study through readings, reports, and conferences. May be repeated.

POL SCI 3940 Public Affairs Internship: 1-6 semester hours

Prerequisite: Junior standing and consent of instructor. Independent study involving work with an appropriate public or private agency. A maximum of six credit hours may be earned.

POL SCI 3950 Senior Seminar In Political Science: 3 semester hours
Prerequisite: POL SCI 2000, senior standing and consent of instructor.
Required of all political science majors in their last year of coursework
as an integrative, capstone experience. Emphasis is on student-faculty
interaction in a seminar format designed to engage upper-level students in
a critical examination of a broad theme in political science, leading to the
production of a major research paper. Topics vary. May be repeated. This
course is not available for graduate student credit.

POL SCI 4040 Survey Research Practicum in Political Science: 3 semester hours

Prerequisite: Junior standing and consent of the instructor. The execution of a sample survey, including establishing study objectives, sampling, questionnaire construction, interviewing, coding, data analysis, and presentation of results.

POL SCI 4060 Theory Of Decisions And Games: 3 semester hours
Prerequisites: Six hours of Philosophy and junior standing, or Political Sci
6401 (or the equivalent, or consent of the instructor. A study of rational
decision-making, including games against nature, zero-sum games,
and social choices. Topics will include the following: expected utility
maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's
theorem on the impossibility of a social welfare function. Parts of the
course are technical in nature; a prior course in mathematics (e.g.,
finite mathematics, calculus, statistics or an economics course with a
mathematical component), symbolic logic, or some other course with
comparable mathematical content. (Same as Philosophy 4465).

POL SCI 4090 American Government For The Secondary Classroom: 3 semester hours

Same as: SEC ED 4090 Prerequisites: Admission to the Teacher Education Program. TCH ED 3310 or the consent of the instructor. Adapts the themes and subject matter of American Government to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting methods of inquiry for use in an interactive classroom. Can be counted towards the Political Science major requirement, but not the American Politics subgroup. Counts towards Social Studies certification. Not available for graduate credit.

POL SCI 4460 Urban Planning And Politics: 3 semester hoursPrerequisite: POL SCI 1100, POL SCI 2400, or consent of instructor.
Examination of the political processes of urban areas, as they relate to the planning of services and facilities. Course fulfills state requirement.

POL SCI 4510 Comparative Public Policy And Administration: 3 semester hours

Prerequisite: POL SCI 1500 or consent of instructor. A comparative study of the characteristics of public administrators, their institutions and environments in western democratic, developing nations and communist political systems.

POL SCI 4520 Mega-Cities and Diasporas: Understanding Global Migration: 3 semester hours

Prerequisites: POL SCI 1500 or consent of instructor. This course examines the causes, dynamics and effects of mega-city development and migrating diasporas in a variety of national settings. Case studies include cities based in Europe, South America, china, India, Turkey, and parts of Africa, fostering global awareness, as well as an understanding of the "interconnectedness" of politics, economics and climate change across the planet.

POL SCI 4850 International Law: 3 semester hours

PREREQUISITE: POL SCI 1100, POL SCI 1500, or consent of instructor. Study of the international legal system, including the content and operation of the laws of war and peace, how law is created and enforced with regard to the oceans and other parts of the globe, and the relationship between international law and international politics.

POL SCI 4900 Topics In Political Science: 3 semester hours
Prerequisites: POL SCI 1100 or consent of instructor Selected topics in
Political Science.

POL SCI 5060 Theory Of Decisions And Games: 3 semester hours

POL SCI 6300 Leadership and Management in NonProfit Organizations: 3 semester hours

Same as P P ADM 6300 and SOC WK 6300. Prerequisites: Graduate standing required. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

POL SCI 6401 Introduction To Policy Research: 3 semester hoursProcedures for testing explanations, including research design, principles of measurement, probability sampling, methods of data collection, and techniques for analyzing data.

POL SCI 6402 Intermediate Techniques In Policy Research: 3 semester hours

Prerequisite: Gradaute standing and POL SCI 6401. elementary distribution theory, statistical inference, and introduction to multiple regression. Emphasis on practical applications.

POL SCI 6403 Advanced Techniques In Policy Research: 3 semester hours

Prerequisite: Graduate standing and POL SCI 6402. Selected topics in policy research emphasizing forecasting, modeling and estimation.

POL SCI 6404 Multi-Method Research Design: 3 semester hours
Prerequisite: POL SCI 6403 or consent of instructor. Develops policy
research skills that combine qualitative and quantitative social science
tools and applies an appropriate mix of these tools to specific policy
problems. Topics include alternative approaches to causal analysis, levels
of analysis, triangulation from a variety of qualitative and quantitative
research techniques, building contextual effects into multiple research
projects, techniques for assessing alternative program theories and
clarifying implicit assumptions, and meta-analysis of secondary data
sources.

POL SCI 6405 Directed Readings In Research Methods: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6410 Introduction To Policy Analysis: 3 semester hoursSame as P P ADM 6000. Systematic development of a critical/analytic base for dealing with public policy.

POL SCI 6415 Directed Readings And Research In Public Policy: 1-10 semester hours

Same as P P ADM 6150. Prerequisite: Consent of instructor. Independent study through readings, reports, research propjects, and conferences. May be repeated for credit, provided the subject matter is different.

POL SCI 6420 Proseminar In Public Law: 3 semester hoursStudy of judicial systems and processes (judges, courts, litigants, and juries) and evaluation of legal policies (Compliance, impact and deterrence).

POL SCI 6421 Seminar In Public Law: 3 semester hours

Research problems and designs, models and approaches to the study of public law. May be repeated for credit when the subject matter is different.

POL SCI 6422 Law, Courts And Public Policy: 3 semester hours
Same as CRIMIN 6422. Prerequisites: Graduate Standing. An analysis of
the role of courts as policymaking institutions and the law as policy. We
will explore the role of judges as policymakers, consider the attributes of
courts, (both trial and appellate) that make them appropriate yet limited
targets for advocates of reform, and the implementation and impact of
court decisions. We will consider recent examples of judicial involvement
in state and national policymaking. In addition, we will examine the role of
lawyers and interest groups in selecting litigation rather than alternative
political processes for policy change.

POL SCI 6425 Directed Readings And Research In Public Law: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6430 Proseminar In American Politics: 3 semester hoursStudy of individual and group political behavior including socialization, participation, consensus formation, representation, legislative and judicial behavior.

POL SCI 6431 Seminar In American Politics: 3 semester hoursResearch problems and design in American political process and behavior. May be repeated for credit when the subject matter is different.

POL SCI 6435 Directed Readings And Research In American Politics: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6440 Proseminar In Public Policy Administration: 3 semester hours

Examination of major approaches to analyzing public policies and their administration. Emphasis is on the effects of administrative organization and procedures on policy decisions and their impacts. Specific topics may include administrative accountability, inter-governmental relations, e public-private interaction, implementation of processes, bureaucratic expertise, the legal environment of public service and merit issues.

POL SCI 6442 The Policy Process: 3 semester hours

Prerequisite: Graduate Standing. The course will require a major research project using federal documents and other promary sources of information about the U.S. policy process. Topics will include the sources of public policy; the policy agenda; policy design, legetimation, and implementation.

POL SCI 6443 Health Care Policy: 3 semester hours

Same as P P ADM 6430, GERON 6443, and SOC WK 6443.

Prerequisites: Graduate Standing or consent of instructor. Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

POL SCI 6444 Seminar In Public Policy And Aging: 3 semester hours Same as GERON 6444 and P P ADM 6444. Prerequisites: Consent of instructor. The study of specialized issues and methods related to federal, state, and local policies that affect the elderly. Potential policy areas to be covered include: housing, taxation, mental health, transportation, etc. May be repeated for credit, provided the subject matter is different.

POL SCI 6445 Directed Readings And Research In Public Administration: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6446 Selected Topics In Health Care Policy: 3 semester hours

Same as P P ADM 6460. Prerequisite: Consent of Instructor. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

POL SCI 6448 Political Economy And Public Policy: 3 semester hours
Prerequisite: Graduate standing. This course examines political economy
in its contemporary manifestations as public choise and as the study
of the ways in which institutional power shapes economic policies and
performance. The course explores the origins and major concepts of
political economy, the institutions of economic policymaking and economic
policies in the U. S. It emphasizes the the consequences of budget
constraints inflation, unemployment and sectoral decline on the design and
administration of public programs at all levels of government.

POL SCI 6449 Human Resources In The Public Sector: 3 semester hours

Same as SOC WK 6449 and P P ADM 6490. Prerequisites: P P ADM 6600 or consent of Instructor. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include: personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation and labor relations including grievance arbitration and collective bargaining.

POL SCI 6450 Proseminar In Comparative Politics: 3 semester hours Classification and typology of political systems; structural-functional analysis; political culture, ideology, affiliation and participation; decision-making processes; political roles; organization of authority.

POL SCI 6451 Seminar In Comparative Politics: 3 semester hoursResearch problems and design in comparative politics. May be repeated for credit when the subject matter is different.

POL SCI 6452 Public Policy Of Conservation And Sustainable Development: 3 semester hours

Same as BIOL 6250. Prerequisites: Graduate standing in Political Science or Biology and consent of instructor. Prior course in ecology is recommended. This course will introduce the student to concepts and techniques for formulating, implementing, and analyzing public policy with an emphasis on environmental concerns, conservation, and sustainable development. The course will be team taught by a political scientist and a biologist. Course materials will include case studies that demonstrate the special problems of environmental policymaking in developing and developed economies.

POL SCI 6455 Directed Readings And Research In Comparative Politics: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6465 Directed Readings And Research In Political Theory: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6470 Proseminar In Urban Politics: 3 semester hours

Examination of the relationship between the social, economic and political systems of urban areas. Urban political structure, patterns of influence, political participation and communication and political change. Special attention to problems of access to and control of urban political systems.

POL SCI 6471 Seminar In Urban Politics: 3 semester hours

Research problems and design in urban and regional politics. May be repeated for credit when the subject matter is different.

POL SCI 6475 Directed Readings And Research In Urban Politics: 1-10 semester hours

Independent study through readings, reports and conferences.

POL SCI 6480 Proseminar In International Relations: 3 semester hours

Examination of various approaches to the study of international politics snf foreign policy, focusing on studies of conflict, decision-making, international political economy, and related topics. Included are realist, idealist, and Marxist perspectives.

POL SCI 6481 Seminar In International Relations: 3 semester hoursResearch problems and design in international politics. May be repeated for credit when the subject matter is different.

POL SCI 6482 International Political Economy: 3 semester hours

Prerequisite: Graduate standing. This course will examine the theoretical and policy issues of international political economy. In particular, it will focus on the politics of international trade, finance and investment. It will also analyze the themes of interdependence, hegemony, and dependency, as well as consider relations between developed and developing countries. Finally, the relative usefulness of liberal, Realist and Marxist approaches to the study of international political economy will be weighed.

POL SCI 6485 Directed Readings And Research In International Relations: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6488 Studies In International Relations: 1-6 semester hoursPREREQUISITES: Graduate standing or permission of instructor.
Selected topics in international studies. May be repeated for credit provided the topic of the course is different each time.

POL SCI 6490 Strategic & Program Planning For Nonprofit Organizations: 3 semester hours

Same as P P ADM 6550 and SOC WK 6491. Prerequisites: Graduate standing or consent of instructor. Strategic and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, a vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

POL SCI 6494 Thesis Research: 1-10 semester hours

POL SCI 6495 Internship: 1-6 semester hours

Independent study involving work with an appropriate public or private agency.

POL SCI 6499 Directed Dissertation Proposal Research: 3 semester hours

Prerequisites: Consent of Instructor. Supervised study through readings and research leading to the preparation of a dissertation proposal plan. Open to doctoral students who have completed at least 42 hours of course work. The proposal plan will indicate the following: statement of research question, importance of the problem, literature review and research design.

POL SCI 7499 Dissertation Research: 1-10 semester hours

Pre-professional Programs

Students at the University of Missouri-St. Louis may develop preprofessional study programs in either law or the health professions. With early and careful advising, students may develop an appropriate program to prepare for the intended professional study.

Students should seek pre-professional advisors in their interest area early in their academic careers to ensure development of sound, comprehensive study programs that fulfill the admission requirements of the professional program to which they wish to apply.

The following information on pre-professional study at UMSL is provided to give students minimal guidelines and assistance in planning a program.

For advisement and information, contact the Office of Undergraduate Student Affairs in the College of Arts and Sciences, 303 Lucas Hall, 314-516-5501

Pre-Law

There is no pre-law major or minor at UMSL. There is a pre-law track available within the philosophy major, and a public law minor within political science, but you need not major in philosophy, nor minor in political science, in order to be a pre-law student. According to the Pre-Law Committee of the American Bar Association (ABA):

The ABA does not recommend any undergraduate majors or group of courses to prepare for a legal education. Students are admitted to law school from almost every academic discipline. You may choose to major in subjects that are considered to be traditional preparation for law school, such as history, English, philosophy, political science, economics or business, or you may focus your undergraduate studies in areas as diverse as art, music, science and mathematics, computer science, engineering, nursing or education. Whatever major you select, you are encouraged to pursue an area of study that interests and challenges you, while taking advantage of opportunities to develop your research and

writing skills. Taking a broad range of difficult courses from demanding instructors is excellent preparation for legal education.

The pre-law advisor can assist you in selecting courses that will best meet your interests while also allowing you to develop the skills that are important for success in law school and within the legal profession. The ABA recommends that you take courses that allow you to develop the following seven sets of skills:

- 1) Analytic / Problem Solving Skills
- 2) Critical Reading Skills
- 3) Writing Skills
- 4) Oral Communication / Listening Abilities
- 5) General Research Skills
- 6) Task Organization / Management Skills
- 7) Public Service and the Promotion of Justice

Pre-law advising is done through the Department of Philosophy in the College of Arts and Sciences. For further information, please consult the pre-law advising website: http://www.umsl.edu/divisions/artscience/Advising%20and%20Student%20Resources/prelaw.html. The website contains information about the pre-law advisor, the law school application process, preparation for the LSAT, UMSL's Pre-law Advisory Council, and the Friends of the Pre-Law Advisory Council Scholarship.

Pre-Health Sciences

The University of Missouri - St. Louis offers the prerequisite classes necessary for entry into health professions schools. Students planning on applying to a health professions school should complete a baccalaureate degree of their choice while completing the prerequisite courses. Even though some programs might not require a baccalaureate degree, it is strongly recommended to complete one in order to be as competitive as possible when applying.

Programs that are covered by UMSL's pre-health advising include: medicine, dentistry, optometry, pharmacy, veterinary science, physician assistant, occupational therapy, physical therapy, chiropractic, and clinical lab science. For pre-health advising please contact 314-516-5501 or pre-health@umsl.edu for an appointment.

In addition to the courses listed below, students should actively seek out extracurricular opportunities. Such activities can include volunteering, shadowing, research, and organizational leadership. Students are encouraged to join some of the many on-campus organizations including one of the pre-health societies. Information about student organizations can be found at the Office of Student Life (http://www.umsl.edu/studentlife/osl).

Since admission requirements may vary between schools, students should consult the catalogs¹ of the programs to which they intend to apply. Updated information may be found in:

Medical School Admission Requirements (MSAR)

Phone: 1-202-828-0400; Website: www.aamc.org (http://www.aamc.org)

American Dental Education Association Official Guide to Dental Schools

Phone: 1-202-289-7201; Website: www.adea.org (http://www.adea.org)

Schools and Colleges of Optometry Admission Requirements
Phone: 1-301-231-5944; Website: www.opted.org (http://www.opted.org)

Pharmacy School Admission Requirements

Phone: 1-703-739-2330; Website: www.aacp.org (http://www.aacp.org)

Veterinary Medical School Admission Requirements in the United States and Canada

Phone: 1-202-371-9195; Website: www.aavmc.org (http://www.aavmc.org)

Suggested Courses

Many health professions schools require or recommend the following undergraduate courses²:

Biology

BIOL 1831	Introductory Biology: From Molecules To Organisms	5
BIOL 1821	Introductory Biology: Organisms And The Environment	5
BIOL 2012	Genetics	3
BIOL 2482	Microbiology	3
BIOL 3622	Cell Biology	3
BIOL 1131	Human Physiology And Anatomy I	4
BIOL 1141	Human Physiology And Anatomy II	4
Chemistry		
CHEM 1111	Introductory Chemistry I	5
CHEM 1121	Introductory Chemistry II	5
CHEM 2612	Organic Chemistry I	3
CHEM 2622	Organic Chemistry II	3
CHEM 2633	Organic Chemistry Laboratory	2
CHEM 4712	Biochemistry	3
Mathematics		

Select courses at least through calculus, as appropriate for the major degree. $^{2}\,$

degree. 2			
MATH 1100	Basic Calculus	3-5	
or MATH 1800	Analytic Geometry And Calculus I		
MATH 1320	Applied Statistics I	3	
Physics			
As appropriate for	the degree chosen: ²	8-10	
PHYSICS 1011 & PHYSICS 101	Basic Physics 1 2 and Basic Physics II	8	
or			
PHYSICS 2111 & PHYSICS 211	Physics: Mechanics And Heat 2 and Physics: Electricity, Magnetism, And Optics	10	

- The campus health professions advisor has copies of these catalogs. Email prehealth@umsl.edu for an appointment.
- ² Consult with the health professions advisor to determine the appropriate course(s).

Since students are not confirmed for admission to professional schools until the science requirements for admission are fulfilled, students should meet the science requirements before the end of the junior year. To complete these requirements in time, BIOL 1831 (https://nextbulletin.umsl.edu/artsandsciences/preprofessionalprograms) and BIOL 1821 (https://nextbulletin.umsl.edu/artsandsciences/preprofessionalprograms), Introductory Biology I and II as well as CHEM 1111 (https://nextbulletin.umsl.edu/artsandsciences/preprofessionalprograms) and CHEM 1121 (https://nextbulletin.umsl.edu/

artsandsciences/preprofessionalprograms), Introductory Chemistry I and II should be taken during their first three semesters.

Successful completion of these recommended courses also helps students prepare for required standardized exams.

Students should take the required national standardized examination early in their junior year as is appropriate for the exam: The Medical College Admission Test (MCAT) for Pre-Med students; the Dental Aptitude Test (DAT) for Pre-Dental students; the Optometry Admission Test (OAT) for Pre-Optometry students; and the Pharmacy College Admission Test (PCAT), (if required) for Pre-Pharmacy students; and the Medical College Admission Tests or Graduate Record Exam (GRE) for Pre-Vet students. (Pre-Vet students should consult with their intended veterinary colleges for appropriate test information.)

Each year the number of applicants to health profession schools exceeds the number of available places. Students should meet with Career Services (http://www.umsl.edu/depts/career) and the various campus advising resources are available to students to explore alternative plans should they not be accepted.

Pre-Optometry

The University of Missouri-St. Louis offers a four-year program of study leading to the Doctor of Optometry degree; this professional degree is administered by the College of Optometry. It is one of only 20 schools or colleges of optometry in the United States and the only one in the state of Missouri. This program, as a result, makes UMSL an ideal institution for Pre-Optometry education. Various programs are available for Pre-Optometry students as noted below.

Students may pursue a traditional 4 + 4 program, which is a bachelor's degree followed by the four-year graduate optometry program. In this case, students may pursue any bachelor's degree, as long as the pre-optometry requirements are met in biology, chemistry, math, physics, psychology and English.

Alternatively, the Department of Biology, the Department of Physics & Astronomy, and the Department of Chemistry & Biochemistry sponsor 3+4 Programs for the UMSL College of Optometry, for which a student may be admitted after completing three years (90 semester hours) of study in their respective majors and successful completion of the Optometry Admission Test (OAT). See your specific department for undergraduate degree requirements.

The Pierre Laclede Honors College and the College of Optometry also offer the Scholars Program, which allows a student to complete both the undergraduate and Doctor of Optometry degrees in seven years. To qualify for this program, a student must be a senior in high school; score a minimum composite of 27 on the ACT; and be accepted to the UMSL Pierre Laclede Honors College program. For more information about the Scholars Program, contact the Pierre Laclede Honors College, 314-516-7769.

For the programs described above (3+4 or Scholars), the undergraduate degree is granted when the student satisfactorily completes the first year of the professional program and has met all of the conditions for the specific undergraduate degree for which the student has applied.

1. All general education requirements and all requirements for the biology, physics, or chemistry major, except electives, must be completed.

- Any deficiency in required courses must be remedied with courses taken at UMSL within three years after entering the College of Optometry.
- Up to 6 hours from the College of Optometry may be substituted for undergraduate degree in Biology with approval of the Department of Biology.
- 4. Up to six hours is used to satisfy degree requirements in biology, and 14 hours in physics to complete the B.S. in Physics degree.

For more information, contact the Department of Biology, 314-516-6200 or the Department of Physics & Astronomy at 314-516-5931. The Department of Chemistry & Biochemistry offers a similar program, which may require taking summer classes in order to complete the degree requirements for a B.A. or B.S. degree in three years. For more information, please contact the Department of Chemistry & Biochemistry at 314-516-5311.

In some cases, students are admitted to the College of Optometry program prior to completing the requirements for their baccalaureate degree.

Note: MATH 1800 (https://nextbulletin.umsl.edu/artsandsciences/preprofessionalprograms), Analytical Geometry and Calculus I must be taken in the first semester for most 3+4 or Scholars Programs.

For more information on admission requirements for the College of Optometry, please refer to the Optometry section of this Bulletin.

Psychology

General Information

Psychology Academic Advising Office

Undergraduate psychology majors and other students interested in majoring or minoring in Psychology should visit an Academic Advisor in the Psychology Academic Advising Office (Stadler 322) to receive specific information on degree requirements and course offerings, discuss questions about career options, and receive information about graduate work in Psychology. All students are encouraged to see a Psychology Academic Advisor regularly throughout their collegiate careers. It is especially important for all students who are within one calendar year of graduation to meet with a Psychology Academic Advisor. Students will minimize waiting time and will be assured one-to-one attention from an Academic Advisor by calling (314) 516-4561 to schedule an appointment. Office hours for Psychology Academic Advising are posted to the Psychology Department Webpage which can be found at: http://www.umsl.edu/divisions/artscience/psychology/Prospective_Students/advising.html or can be obtained by e-mailing: psy_advising@umsl.edu.

Career Outlook

The undergraduate major in Psychology can provide the foundation for further training in psychology at the graduate level, the background necessary for graduate training in other fields such as the health professions, social work or counseling, or the liberal arts background necessary for entry level positions in many fields such as business, communication, and human services and mental health positions. To function specifically as a psychologist, a graduate degree is required. For more career information please schedule an appointment with an Academic Advisor in the Psychology Academic Advising Office (Stadler 322; 314-516-4561; psy_advising@umsl.edu). For additional information,

visit the American Psychological Association website at www.apa.org (http://www.apa.org).

Facilities

The department has several animal and human experimental laboratories furnished with a wide range of psychophysiological equipment. The department also operates three facilities (Community Psychological Services, the Center for Trauma Recovery, and Children's Advocacy Services of Greater St. Louis) which provide training opportunities for students in Psychology, as well as providing psychological assessment services for citizens of the region.

Program Overview

The Psychology department offers a broad-based curricular plan leading to the Bachelor of Arts (BA) degree in Psychology as well as a minor in the field. There are several certificates that can be earned through the department including an undergraduate certificate in neuroscience and an undergraduate and a graduate certificate in trauma studies. The department also offers a terminal Master of Arts in Psychology, with a specialization in either Industrial/Organizational Psychology or Behavioral Neuroscience. The department offers three options within its Ph.D. Program: Clinical Psychology; Behavioral Neuroscience; and Industrial/Organizational Psychology. Finally, the department offers a Clinical Psychology Respecialization-Advanced Graduate Certificate Program. This program is designed for individuals who already have a doctoral degree in Psychology who wish to receive specialty training in Clinical Psychology.

Undergraduate Programs General Education Requirements

Majors must satisfy the university and college General Education curricular requirements (p. 28). Selected courses in Psychology may be used to meet General Education Social and Behavioral Sciences and/or Valuing requirements. These courses are listed here in The Bulletin and can be found on the Degree Audit Report System.

Bachelor of Arts in Psychology

At least 34, but no more than 45, hours must be completed in courses taught by or cross-listed with the Psychology Department. Credits that exceed the 45 hour maximum in Psychology will not be counted toward graduation. Candidates must have a cumulative grade point average of 2.0 or higher in the major overall, and must earn a C- or above in each of the courses comprising the 34 credits required of all Psychology majors. Failure to earn a C- or above in these required courses will necessitate re-taking them for a satisfactory completion of the C- requirement in all 34 hours. It is recommended that students complete the prerequisites necessary to start taking the Psychological Statistics (PSYCH 2201 (p. 240)) and Research Methods (PSYCH 2219 (p. 240)) course sequence as early as possible after declaring a Psychology major. Psychological Statistics and Research Methods are 2000-level courses; it is important to complete these when students are taking other 2000-level courses. Students who wait to take these courses are not as prepared for their 3000 and 4000 level courses as are those who take them at the appropriate time. No Psychology courses taken on a satisfactory/ unsatisfactory basis may be applied to the major.

A grade of C- or above is required by all Psychology majors in the following 34 credit hours of courses:

PSYCH 1000, Careers in Psychology (1.0 Credit Hour): Native and transfer students must satisfactorily complete this course during their first semester as a Psychology major at UMSL.

A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade.

PSYCH 1003 (p. 240), General Psychology (3.0 Hrs)

 A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade

PSYCH 2201 (p. 240) Psychological Statistics (4.0 Hrs): Meeting the University mathematical skills requirement is a prerequisite for this course.

- Students may register for this course only after satisfactory completion of this requirement.
- A grade of C- or higher in PSYCH 2201 (p. 240) is required before students may register for PSYCH 2219 (p. 240). A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade.

PSYCH 2211 (p. 240) Introduction to Biological Psychology (3.0 Hrs)

 PSYCH 1003 (p. 240), and three hours of BIOL chosen from either BIOL 1012 (p. 240), BIOL 1102 (p. 240), or BIOL 1831 (p. 240) are prerequisites of this course and must be completed before enrollment. A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade.

PSYCH 2219 (p. 240) Research Methods (3.0 Hrs)

- A grade of C- or above in PSYCH 2201 (p. 240) at UMSL is a prerequisite of this course. Students may not register for PSYCH 2219 (p. 240) until a final grade of C- or above has been earned in PSYCH 2201 (p. 240). Students wishing to have statistics courses from other institutions reviewed for possible course equivalency must see the Director of Academic Advising for the Department of Psychology for a review.PSYCH 2201 (p. 240) and PSYCH 2219 (p. 240) cannot be takenconcurrently.
- A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade.

PSYCH 2245 (p. 240) Abnormal Psychology (3.0 Hrs)

• A grade of C- or above in PSYCH 1003 (p. 240) is a prerequisite for this course. A grade of C- or above is required for Psychology majors taking this course. Psychology majors earning below a C- must repeat this course to earn a satisfactory grade. PSYCH 2160 (p. 240), Social Psychology (3) *OR*PSYCH 2270 (p. 240), Developmental Psychology: Infancy, Childhood & Adolescence (3)A grade of C- or above in PSYCH 1003 (p. 240) is a prerequisite for taking either of these courses. A grade of C- or above is required for Psychology majors in at least one of these two courses. Psychology majors earning below a C- must either repeat the course in which the unsatisfactory grade was earned, or satisfactorily complete the other course listed here.

PSYCH 4999 (p. 240), Integrated Psychology (2.0 Hrs)

 Students may register for this course during their final semester of study at UMSL.

- A grade of C- or above is required for Psychology majors taking this course.Psychology majors earning below a C- must repeat this course to earn a satisfactory grade. PSYCH 3000/4000 level Psychology courses (12). At least four additional totaling a minimum of 12 credit hours in Psychology (in addition to the 2 credits earned PSYCH 4999) must be satisfactorily completed at the 3000/4000 level.
- A grade of C- or above is required by all Psychology majors in a total
 of 12 credit hours of 3000/4000 level Psychology courses.Psychology
 majors earning below a C- must either repeat courses in order to earn
 a C- or above in 12 hours at this level, or satisfactorily complete other
 3000/4000 level courses for satisfactory completion of a cumulative
 total of 12 hours.

Additional Notes

Psychology majors must not take courses in excess of 45 hours in Psychology. Psychology credits completed in excess of 45 will not count toward graduation. For example, students earning 48 hours in Psychology will consequently be required to earn a minimum of 123 hours to graduate.

The three course sequence of Math, Psychological Statistics (PSYCH 2201 (p. 240)), and Research Methods (PSYCH 2219 (p. 240)) require a minimum of three semesters to complete. Students must satisfy the current University mathematical skills requirement before taking PSYCH 2201 (p. 240), Psychological Statistics. PSYCH 2201 (p. 240) is a prerequisite for PSYCH 2219 (p. 240), and hence, PSYCH 2201 (p. 240) must be completed with a grade of C- or higher PRIOR to enrollment in PSYCH 2219 (p. 240). PSYCH 2201 (p. 240) and PSYCH 2219 (p. 240) cannot be taken concurrently. Students are advised to plan accordingly and to seek assistance from Psychology Academic Advising whenever needed.

Students are required to satisfactorily complete 13 credit hours in one foreign language.

Requirements for the Minor

Candidates must complete a minimum of 15 hours of courses taught by or cross-listed with the Psychology Department, including at least 6 hours at the 3000 or 4000 level (no more than 3 of these can be PSYCH 3390 (p. 240)). Candidates must have a cumulative grade point average of 2.0 or higher in the minor. Psychology courses taken on a satisfactory/ unsatisfactory basis may not be applied to the minor.

Undergraduate Certificate in Trauma Studies

The trauma studies certificate is designed for students who are interested in a focused specialty in trauma studies or victim services in addition to their own major. It is appropriate for students in the College of Arts and Sciences or any of the schools of the university. It is particularly appropriate for students wishing to pursue careers in psychology, social work, sociology, criminology, law, public health, or nursing.

Requirements

A student may earn a trauma studies certificate by completing 18 hours with a GPA of 2.0 or better from at least three departments from the following courses:

Select at least four of the following:

Criminology and Criminal Justice

CRIMIN 1120 Criminal Law (p. 240)

	CRIMIN 4300 (p. 240)	Communities And Crime
	CRIMIN 4350 (p. 240)	Victimology
	Psychology	
	PSYCH 2232 (p. 240)	Psychology Of Trauma
	PSYCH 3390 (p. 240)	Directed Studies (for three credits only toward certificate) ¹

Social Work

SOC WK 3100 Introduction To Strategies for Social Work Practice (p. 240)

SOC WK 4601 Abused And Neglected Children (p. 240)

SOC WK 4602 Child Welfare Practicum Seminar (p. 240)

Sociology

SOC 3250 (p. Sociology Of Victimization 240)

Select up to two of the following:

Criminology and Criminal Justice

CRIMIN 3230 Crime Prevention (p. 240)

CRIMIN 2240 Policing

(p. 240)

CRIMIN/ Race, Crime, And Justice SOC 4340 (p.

240)

Political Science

POL SCI 2400 Public Administration

(p. 240)

POL SCI 2420 Introduction To Public Policy

(p. 240)

Psychology

PSYCH/ Social Psychology SOC 2160 (p.

240)

PSYCH 2230 Psychology Of Gender

(p. 240)

PSYCH 2245 Abnormal Psychology

(p. 240)

Social Work

SOC WK 4630 Gender Issues in Social Work (p. 240)

Sociology

SOC 2102 (p. Introduction To Gender Studies

240)

SOC/PSYCH Social Psychology

2160 (p.

240)

SOC 3268 (p. The Sociology Of Conflict

240)

12

SOC/CRIMIN Race, Crime, And Justice 4340 (p. 240)

Total Hours 18

Please seek approval of the Coordinator of the Trauma Studies Certificate in advance

Special Topics courses relevant to trauma studies may be included in the certificate when approved in advance by the coordinator of the trauma studies certificate.

Graduate School Preparation

In addition to the required courses listed above, students interested in applying to graduate school in Psychology are strongly encouraged to become involved in a research project with a Psychology faculty member by securing enrollment in PSYCH 3390, Directed Studies. These positions are available on a limited and competitive basis. No enrollments in PSYCH 3390 are possible without special Instructor permission. Those invited to participate must obtain a special consent form from the instructor in order to enroll. Contact the Psychology Academic Advising office for more information on such positions (psy_advising@umsl.edu).

Undergraduate Learning Outcomes

The Undergraduate Psychology Learning Goals and Outcomes represent reasonable departmental expectations for the psychology major at the University of Missouri-St Louis. They have been modified from the undergraduate learning goals recommended by the American Psychological Association.

Outcome 1. Recommended Courses for General Knowledge Base of Psychology

- Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- PSYCH 1003 introduces these concepts; all other psychology courses expand on these issues in more depth.

Goal 2. Research Methods in Psychology

- Students will understand basic research methods in psychology, including the development and refinement of theory, hypothesis generation and testing, research design, data analysis and interpretation.
- All courses touch on these issues, but two required courses, PSYCH 2201 and PSYCH 2219 specifically address these issues in depth. In addition, students may take elective courses to strengthen their skills in this area.

Goal 3. Biological and Cognitive Approaches to Understanding Behavior

- Students will have a basic understanding of the biological basis of behavior and cognitive theory and research in psychology.
- The following courses specifically address this goal:

•	PSYCH 2211	Introduction To Biological Psychology	3
	PSYCH 4349	Human Learning And Memory	3
	PSYCH 4356	Cognitive Processes	3

Goal 4. Application of Psychology to Personal Development and Mental Health.

- Students will understand and apply psychological principles to personal development and mental health.
- Many psychology courses have a specific application to the personal development and mental health of students and their families, including:

•	PSYCH 2232	Psychology Of Trauma	3
	PSYCH 2245	Abnormal Psychology	3
	PSYCH 2270	Developmental Psychology: Infancy, Childhood And Adolescence	3
	PSYCH 2280	Psychology Of Death And Dying	3
	PSYCH 3340	Developmental Psychology: Clinical Problems Of Childhood	3
	PSYCH 3346	Introduction To Clinical Psychology	3
	PSYCH 4305	Developmental Psychology: Cognitive Development of Children	3
	PSYCH 4316	Developmental Psychology: Social Development of Children and Adolescents	3
	PSYCH 4376	Mental Health And Aging	3

Goal 5. Application of Psychology to Social and Organizational Issues

- Students will understand and apply psychology principles of social and organizational issues, including understanding and respect for cultural diversity.
- The following courses address this goal:

PSYCH 2222 Group Processes In Organizations	3
PSYCH 2230 Psychology Of Gender	3
PSYCH 3318 Industrial And Organizational Psychology	3
PSYCH 4310 Motivation Theory	3
PSYCH 4311 Psychology Of Nonverbal Behavior	3

Goal 6. Values in Psychology and Critical Thinking

- Students will be able to weigh evidence, tolerate ambiguity, act
 ethically, and reflect other values that are the underpinnings of
 psychology as a discipline. Students will also learn to use critical
 thinking in evaluating research and other types of information.
- · All courses are relevant to this goal.

Goal 7. Information and Technological Literacy

- Students will demonstrate information competence and the ability to use computers and other technology for many purposes.
- PSYCH 2201 and PSYCH 2219 addresses these topics in considerable detail

Goal 8. Communication Skills

- Students will be able to communicate effectively in a variety of formats.
- All courses provide some training in communication skills, with initial skills reinforced in upper division courses.

Goal 9. Career Planning and Development

- Students will emerge from the major with realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings.
- PSYCH 1000 and PSYCH 1003 addresses this goal directly.

Graduate Programs

Admission Requirements

In addition to meeting the general admission requirements of the Graduate School, applicants should have completed undergraduate courses at minimum in general psychology, psychological statistics, and research methods. Each doctoral program has additional admission requirements specific to that program.

Applications

Each program has independent deadlines for completed applications. They are as follows:

Ph.D. in Psychology:

- Clinical Psychology--December 15
- Industrial/Organizational Psychology--January 15
- Behavioral Neuroscience -- January 15

Teaching and Research Assistantships.

Stipends for teaching and research assistantships are available for the doctoral programs only.

Master of Arts in Psychology

The psychology department at the University of Missouri-St. Louis devotes most of its graduate level training to its three doctoral programs. However, the department does offer a program of studies leading to the Master of Arts degree with a specialization in either Industrial/Organizational Psychology or Behavioral Neuroscience. These positions are very limited in number. Course work depends on student demand and course availability. The M.A. degree does not constitute a license to practice in Missouri or elsewhere as a professional Psychologist. The M.A. program does not offer course work in Counseling or Clinical Psychology.

There is no thesis or language requirement. Part-time or full-time enrollment is permissible. The M.A. degree is a terminal degree and is separate from the Ph.D. program in Psychology.

The M.A. in Psychology requires a total of 32 semester hours of graduate course work in Behavioral Neuroscience or 45 semester hours of course work in Industrial/Organizational Psychology. All students in the Master's program must take the course work prescribed by their emphasis area. All programs of study for M.A. students require the approval of the Director of the Behavioral Neuroscience program or Director of the Industrial/ Organization program. Before applying for admission to the Master's Program, interested applicants are encouraged to discuss their interest with either the Director of the Behavioral Neuroscience program or the Director of the Industrial/Organizational Psychology program.

Description of Ph.D. Programs/Options

There are three distinct programs:

- · Clinical Psychology;
- · Behavioral Neuroscience; and

· Industrial/Organizational Psychology.

Details on each program can be found on the Psychology Department webpage. Each has its own specific curricular and research requirements. The following briefly describes each program.

Clinical Psychology

The Clinical Psychology program has been fully accredited by the American Psychological Association since 1977 and is patterned upon the scientist-practitioner model of clinical training. The Clinical Psychology program requires five years of full-time study. Students are not considered for admission on a part-time basis. Through the medium of courses, practicums, and research experiences, this emphasis area prepares Clinical Psychologists for careers in research, teaching, and clinical practice.

Students in the Clinical Psychology program participate for three years in the Psychology Department's Community Psychological Services clinic. This facility provides psychological services to the public and consultation to outside agencies. Students also receive clinical experience in clerkships and during a full-time, year-long internship. Research requirements include an initial independent research project, a major critical review of research in a specialty area, and a dissertation.

Learning Outcomes for the Ph.D. in Clinical Psychology:

The Ph.D. in Clinical Psychology has the following goals and outcomes:

Goal 1. Students will gain a broad-based foundation of knowledge and conceptual skills necessary for psychological research and practice.

- The following courses address this goal:
- PSYCH 5465 (p. Seminar: Behavioral Neuroscience 3 PSYCH 5468 (p. Seminar: Cognitive Processes 3 PSYCH 6466 (p. Seminar: Developmental Psychology 1-3 PSYCH 7403 (p. Psychopathology 3 PSYCH 7412 (p. Social Psychology 3 240)
- · Students will be prepared in multiple approaches to assessment and treatment that are theory-based and research-supported.
- · The following courses address this goal directly:

240)

 PSYCH 7404 (p. Introduction To Clinical Assessment I 4 PSYCH 7406 (p. Introduction To Clinical Assessment II 4 PSYCH 7430 (p. Introduction To Clinical Skills 1 PSYCH 7431 (p. Clinical Supervision 1-3 PSYCH 7434 (p. Introduction to Clinical Interventions 3 PSYCH 7439 (p. Summer Supervision 240) PSYCH 7450 (p. Clinical Internship I

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PSYCH 7451 (p. Clinical Internship II 1240)

Goal 2. Students will develop the ability to evaluate and conduct methodologically sound research of potential benefit to the practice of psychology.

- The following courses address this goal directly:
- PSYCH 7421 (p. Quantitative Methods I PSYCH 7422 (p. Quantitative Methods II 240) PSYCH 7474 (p. Clinical Research In Applied Settings 3 240) PSYCH 7485 (p. Research Team I 2 240) PSYCH 7486 (p. Research Team II 2 240) PSYCH 7487 (p. Independent Research Project 1-6 PSYCH 7488 (p. Specialty Examination Research 1-6 PSYCH 7492 (p. Ph D Thesis Research 1-10 240)

Goal 3. Students will develop a firm basis for ethical decision-making and adherence to professional standards of conduct in research and practice.

- Most courses provide some training in this area, and PSYCH 7432 (p. 240) addresses this goal directly as a required course.
- **Goal 4**. Students will develop and display sensitivity and adaptability in their applications of research, assessment and treatment approaches to diverse populations.
- Most courses provide some training in this area, and PSYCH 6448 (p. 240) addresses this goal directly as a required course.

Goal 5. Students will continue to develop a commitment to the goals of life-long learning, and an awareness of clinical psychology as an evolving science.

· All courses are relevant to this goal.

Behavioral Neuroscience

The Behavioral Neuroscience program provides opportunities for study, research, and training in various areas including psychophysiology, psychopharmacology, neuroendocrinology, cognitive neuroscience, and neuropsychology. This program prepares students for research careers in academia or industries, such as pharmaceutical firms and medical schools. Full-time enrollment is required.

Learning Outcomes for the Ph.D. in Behavioral Neuroscience

The graduate program in Behavioral Neuroscience has the following goals. Outcome measures for each goal allow the faculty to assess the students.

Goal 1. Students will gain a broad-based foundation of terminology and basic and conceptual knowledge necessary for teaching and research in the Behavioral Neuroscience field. Outcome measures include grades in coursework, performance on both the written and oral segments of

the qualifying exam, as well as active participation in our journal reading groups.

- **Goal 2**. Beginning early in their studies, students will learn the basic skills to conduct research in a variety of different paradigms. Outcome measures include successful accomplishments in the laboratories of mentor professors.
- **Goal 3.** Beginning early in their studies, students will come to recognize the key to success in the Behavioral Neuroscience field is publishing and seeking grant support. Outcome measures include an easily observable mindset that assesses all scholarly activities in regard to possible publication and/ or a suitable idea for submission to a grant agency. Also, regular attendance is expected at all relevant colloquia on campus and at the grant writing seminars offered by the Behavioral Neuroscience faculty.
- **Goal 4**. Students will come to recognize the importance of writing and will be constantly developing their writing skills as applied to manuscript preparations and grant applications. Outcome measures are the numbers of manuscripts written and submitted to journals or grant agencies each year.
- **Goal 5**. As they progress through the program, students will show increasing self-reliance to initiate a research project and carry it to its completion. Outcome measures are numbers and quality of self-initiated research projects.

Goal 6. At the end of their graduate studies, the students will have grown into full colleagues of the faculty and be ready for careers in research and teaching. Outcome measures are a quality dissertation that is successfully defended before peers and being hired for a suitable position (post-doc, assistant professor, junior-level researcher) in the field.

Industrial/Organizational Psychology

The Industrial/Organizational Psychology program is offered in cooperation with selected faculty from the College of Business to prepare students for careers in industry or academia. This program embraces the scientist-practitioner model and provides a balanced training in I/O. This emphasis provides "industrial" training in areas such as personnel selection, training, and test development/validation, as well as "organizational" training in areas such as work motivation, leadership, and group processes. Research and other training experiences in various settings are also incorporated.

Learning Outcomes for the Ph.D. in Industrial/ Organizational Psychology:

The Ph.D. in Industrial/Organizational (IO) Psychology has the following goals:

- **Goal 1**. Students will gain a broad-based foundation of knowledge and conceptual skills necessary for applied psychological research and practice.
- **Goal 2**. Students will develop the ability to evaluate and conduct methodologically sound research of potential benefit to the theory and practice of psychology.
- **Goal 3**. Students will develop the ability to apply psychological principles that are theory-based and research-supported to individuals and groups in organizational settings.
- **Goal 4**. Students will develop a firm basis for ethical decision-making in research and practice.

Goal 5. Students will display adaptability in their applications of research, assessment and practical psychological approaches to individuals and groups in organizational settings.

Graduate Certificate Programs Clinical Psychology RespecializationAdvanced Graduate Certificate Program

This program is designed for graduates of accredited doctoral programs in psychology who wish to receive training in the specialty field of clinical psychology. Respecialization students are trained within the context of the UMSL Clinical Psychology Doctoral Program, which is accredited by the American Psychological Association. The program provides an integrated sequence of training experiences, including didactic course work and practicum placements. Core graduate-level psychology educational requirements not completed elsewhere are included in the respecialization student's course of study.

Graduate Certificate in Trauma Studies

The graduate certificate is awarded upon the completion of 18 credit hours of graduate coursework on the topic of trauma studies. No more than nine hours of graduate level independent research or fieldwork may be used for the certificate. The coursework for the certificate must be taken in at least two departments and may include no more than three hours at the undergraduate 3000 or 4000 level.

Courses

PSYCH 1000 Choosing A Career In Psychology: 1 semester hour

Prerequisite: Psychology Major or consent of instructor. This course is an orientation to the field of psychology for majors and for students who are considering declaring the major. This course is to be completed by native and transfer Psychology majors during their first semester of study at UMSL. Students will be engaged in activities that will help them to develop and identify their professional goals, learn about the various specialties and careers available within the field of psychology, understand the education and skills necessary for various careers, learn the requirements for a psychology major, become familiar with minors that are available at UMSL, think about a possible choice of minor or certificate, and become acquainted with the interest areas of UMSL faculty in Psychology and related fields. All Psychology majors must complete this course during the first semester at UMSL with a grade of C- or higher.

PSYCH 1003 General Psychology: 3 semester hours

A survey of the basic concepts, theories, and pivotal findings over the past 100 years in the science of Psychology, with special emphasis on contemporary concepts and findings that focus on the relation of the brain to normal and pathological behaviors. All Psychology majors must complete this course with a grade of C- or higher.

PSYCH 1268 Human Growth And Development: 3 semester hours

Prerequisites: PSYCH 1003. A survey course, designed for non-majors. This course examines development over the lifespan with an emphasis on the developmental tasks and hazards of each age period. Majors in Psychology and students planning to pursue a career in psychology research, teaching, or practice are strongly encouraged to take PSYCH 2270 instead of this course.

PSYCH 2160 Social Psychology: 3 semester hours

Same as SOC 2160. Prerequisite: PSYCH 1003 or SOC 1010. This course examines the behavior, thoughts, and feelings of individuals in their social environments. The content focuses not only on how people relate to one another, but also on the processes affecting their interactions with others. Specific topics include the self, social judgments, attitudes and persuasion, helping behavior, prejudice, aggression, attraction, conformity and obedience, and group processes. All Psychology majors taking this course instead of PSYCH 2270 must complete it with a grade of C- or higher.

PSYCH 2200 Drugs And Behavior: 3 semester hours

Prerequisite: PSYCH 1003. The course is an introduction to psychopharmacology and the relationship among drugs, and how these impact the brain and behavior. The emphasis is on physiological mechanisms underlying the behavioral responses to psychotherapeutic substances, illicit psychoactive drugs, commonly used substances (alcohol, nicotine, caffeine), and drug-like substances produced naturally in the body.

PSYCH 2201 Psychological Statistics: 4 semester hours

Prerequisites: PSYCH 1003 and satisfaction of the University's mathematical skills requirement. (With Laboratory) This course serves as an introduction to statistical concepts and methods used in Psychological measurement and the analysis and interpretation of social sciences data. Topics include descriptive statistics, frequency distributions centrality, variability, and correlational measures; as well as an introduction to statistical inference, sampling fundamentals, significance testing and effect size, t-test, and analysis of variance. All Psychology majors must complete this course with a grade of C- or higher before registering for PSYCH 2219.

PSYCH 2205 Human Sexuality: Psychological Perspectives: 3 semester hours

Prerequisites: PSYCH 1003. This course is a comprehensive overview of human sexuality from the standpoint of the behavioral science of Psychology. This course includes a study of sexual anatomy and physiology, intersex classifications, sex and gender differences, sexual orientation, interpersonal and interpersonal aspects of human sexuality, classification and treatment of sexual dysfunction and sexual disorders, sexual victimization, and the methods employed for the scientific examination of human sexual behavior.

PSYCH 2211 Introduction To Biological Psychology: 3 semester hours

Prerequisites: PSYCH 1003 and 3 hours of BIOL chosen from either BIOL 1012, or BIOL 1102, or BIOL 1831. Students with career goals that include graduate study in Psychology are urged to complete the BIOL 1831 prerequisite for this course. This course introduces psychology students to behavioral neuroscience and neuropsychology. Course topics include basic neuroanatomy and neurophysiology, neurodevelopment, sensory and motor systems, and the integration of subcortical and cortical networks. All are covered with an emphasis on behavioral outcomes of normal and pathological functioning of the brain. All psychology majors must complete this course with a grade of C- or higher.

PSYCH 2219 Research Methods: 3 semester hours

Prerequisite: Completion of PSYCH 2201 with a final grade of C- or higher is required prior to enrolling in this course. This course is a comprehensive overview of research methods in the social sciences. Topics include technical scientific writing in current APA format, critical evaluation of research literature, the application of statistical methods, and mastery of the ethical principles guiding social sciences research. Course and laboratory work involve designing and evaluating research questions, formulating research hypotheses, designing and conducting original research studies, and presenting research results. All psychology majors must complete this course with a grade of C- or higher.

PSYCH 2222 Group Processes In Organizations: 3 semester hours

Prerequisite: PSYCH 1003 or MGMT 3600. Topics Include Theory, Research And Practice In Coordination, Conflict And Decision-Making In Groups And Organizations, As Well As The Role Of Influence, Power, And Leadership Effectiveness In Understanding Interpersonal And Group Relations.

PSYCH 2230 Psychology Of Gender: 3 semester hours

Same as GS 2230. Prerequisite: PSYCH 1003. Evaluation of psychological theories and research regarding physiological, cognitive, and personality gender differences and similarities, gender related problems in adjustment, and gender specific clinical interventions.

PSYCH 2232 Psychology Of Trauma: 3 semester hours

Same as GS 2232. Prerequisites: PSYCH 1003. This course is designed to review the psychological effects of crime, violence, war, natural disasters, and other traumas. Particular attention is paid to the development of specific psychopathology and other negative consequences of traumatic events. The process of recovery from distress following psychological events is further emphasized. The role of gender and its relationship to victimization and the development of psychopathology and recovery are considered throughout the course.

PSYCH 2245 Abnormal Psychology: 3 semester hours

Prerequisite: PSYCH 1003. This course examines the historical views and current perspectives on the possible antecedents, symptoms, and treatments of major psychological disorders, including anxiety, dissociative, mood, somatoform, eating, schizophrenia and substance-related disorders. Major diagnostic categories and criteria, individual and social factors of maladaptive behavior, methods of clinical assessment, research strategies, and types of therapy will also be covered. All psychology majors must complete this course with a grade of C- or higher.

PSYCH 2270 Developmental Psychology: Infancy, Childhood And Adolescence: 3 semester hours

Prerequisites: PSYCH 1003. This course systematically examines theories and research concerning the physical, social, emotional, and cognitive development of children from conception through adolescence. It will provide students with a basic knowledge of infant, child, and adolescent development; its subject matter; its approaches to gathering and evaluating evidence about the causes of behavior; and the ways in which our knowledge is applied to enhance the development and the quality of life of children. It is intended for Psychology majors and students with career interests in research, education, and/or the treatment of children. All Psychology majors taking this course instead of PSYCH 2160, must complete it with a grade of C- or higher.

PSYCH 2272 Developmental Psychology: Adulthood And Aging: 3 semester hours

Same as GERON 2272. Prerequisite: PSYCH 1003. Personality, social, and physiological development from the onset of early adulthood through maturity and old age.

PSYCH 2280 Psychology Of Death And Dying: 3 semester hours

Same as GERON 2280. Prerequisites: PSYCH 1003. A beginning exploration of end-of-life issues integrating the scholarly, social, and individual dimensionsof death and dying. This course provides a solid grounding in theory and research, as well as practical application to students' lives.

PSYCH 2285 American Culture and Minority Mental Health: 3 semester hours

Prerequisites: PSYCH 1003. Provides an examination of the relationship between American culture and mental health. The focus is on the lives of American minority groups, with specific attention given to how racism, prejudice, and minority status currently reveal themselves within a mental health framework. An eclectic, multidisciplinary approach that draws from clinical and social psychology will be utilized.

PSYCH 3205 Evolutionary Psychology: 3 semester hours

Prerequisites: PSYCH 2211. Evolutionary Psychology refers to a fundamentally unique approach to studying and thinking about human and animal behavior through considerations of 1. The challenges and stressors encountered in ancestral environments, 2. The proximate physical, psychological, and anatomical methods that evolved to meet these adaptive problems, and 3. How adaptive or maladaptive these mechanisms are in current environments. Special emphasis will be placed on the evolution of brain structures, cognitive processes, and social behaviors. The content for this course is not new; Evolutionary Psychology involves looking at the science of Psychology through a unique lens, shaped by its tenets. Although appreciation for this approach to psychological research is increasing, it remains controversial in psychology circles. We will discuss the state of this aspect of Psychology as well.

PSYCH 3256 Environmental Psychology: 3 semester hours

Prerequisites: PSYCH 2160 or SOC 2160 Analysis of environmental influences on behavior and man's influence, in turn, on the environment. Topics will include a consideration of both individual processes relating to the environment (such as the perception, evaluation, and adaptation to the environment) and social processes relating to the environment (such as privacy, territoriality, and corwding).

PSYCH 3290 Traumatic Stress in Childhood and Adolescence: 3 semester hours

Prerequisites: PSYCH 2270 (majors) or PSYCH 1268. Exploration of the impact of stressors experienced during infancy, childhood and adolescence. Integrates how theoretical frameworks, cultural considerations and policy implications apply to child development research and practice.

PSYCH 3316 Fundamentals Of Leadership: 3 semester hours

Prerequisites: PSYCH 1003 and six additional hours of Psychology, or consent of instructor. This course addresses concepts an methods for developing leadership skills in work and everyday settings. Contemporary approaches to leadership development are reviewed in relation to psychological and organizational theory. This course is designed to be relevant to the wide range of leadership opportunities that arise in work and daily life. Experiential exercises are used to help students discover and develop new leadership skills.

PSYCH 3318 Industrial And Organizational Psychology: 3 semester hours

Same as MGMT 3623. Prerequisite: PSYCH 2201 or MGMT 3600. This course introduces the student to psychological research and theories pertaining to human behavior in the work setting. Topics covered include: selection, performance appraisal, training, leadership, motivation, job statisfaction, and organizational design.

PSYCH 3340 Developmental Psychology: Clinical Problems Of Childhood: 3 semester hours

Prerequisite: PSYCH 1003, PSYCH 2270 and six additional hours of Psychology, or consent of instructor. This course will address the clinical disorders and difficulties of children, as well as the causes and the treatment of these disorders. Topics addressed include autism, childhood schizophrenia, conduct disorders, learning disabilities, ADHD, mood disorders, health-related disorders, anxiety disorders, and child maltreatment. Treatments designed for specific use with children, including behavioral, drug and community mental health approaches will be addressed. This course is recommended for those going on to graduate work in psychology.

PSYCH 3346 Introduction To Clinical Psychology: 3 semester hoursPrerequisite: PSYCH 1003, PSYCH 2245; and three additional hours of Psychology. This course provides a conceptual framework for research, description and understanding of clinical phenomena. Assessment,

interviewing, the clinical use of tests and psychological approaches to treatment are also addressed

PSYCH 3390 Directed Studies: 1-6 semester hours

Prerequisite: Consent of instructor Directed reading and research. May be repeated for a maximum total of ten hours.

PSYCH 3400 Conceptual and Historical Foundations of Psychology: 3 semester hours

Prerequisite: PSYCH 1003 and three additional hours of Psychology. This course addresses basic questions about human life debated throughout the history of the West that are present in contemporary Psychology. These include the relation between mind and body, how we know about the world, the nature of morality, and how we think and feel. Greek and Judeo-Christian traditions, and science and religion, have provided distinct, fundamental approaches to how these questions have been asked and answered. This course examines these and related historical, conceptual, and theoretical foundations underlying contemporary Psychology.

PSYCH 3500 Health Psychology: 3 semester hours

Prerequisite: PSYCH 1003 and three additional hours of Psychology. Health Psychology involves the discipline and principles of psychology and behavior in understanding how the mind, body, and behavior interact in health and disease. Class topics include theoretical foundations of health and illness, health promotion and primary prevention of illness, health enhancing and health damaging behaviors, psychosomatic illness, stress and coping, pain management, and a variety of specific behavior-related medical illnesses (e.g., heart disease, eating disorders, cancer, AIDS).

PSYCH 3820 Cross-Cultural Psychology: 3 semester hours

Prerequisites: PSYCH 1003 and 9 hours of Psychology The purpose of this course is to present students with a broad theoretical and applied overview of cross-cultural psychology. To this end, the course presents an orientation to the definitions, concepts, theories, and methodologies of crosscultural psychology. Included is an examiniation of cultural and ecological factors and their influences on perceptual and cognitive processes, personality, language, and other psychological variables.

PSYCH 4300 Introduction To Psychopharmacology: Drugs And Mental Illness: 3 semester hours

Prerequisites: PSYCH 1003, PSYCH 2211 or PSYCH 2200; PSYCH 2245. The course is designed to provide an introduction to drugs used to treat anxiety disorders, major depression, schizophrenia, and other psychopathologies. The emphasis will be on understanding neural mechanisms related to psychological disorders and to the effectiveness of current drug treatments.

PSYCH 4305 Developmental Psychology: Cognitive Development of Children: 3 semester hours

Prerequisites: PSYCH 1003, PSYCH 2270, and Junior standing, or consent of instructor. Data and theory concerned with how children's thinking changes over time. Discussion will include domain-general versus domain-specific theories, social and cultural influences on cognition, gains in memory, attention, problem solving, and metacognition, conceptual development, children's naive theories, schooling, and various definitions and measures of intelligence.

PSYCH 4310 Motivation Theory: 3 semester hours

Prerequisite: Junior standing and twelve hours of psychology, or consent of instructor. Survey of current theoretical material in the area of motivation.

PSYCH 4311 Psychology Of Nonverbal Behavior: 3 semester hours

Prerequisite: PSYCH 2160 or PSYCH 2160. This course examines the psychological perspective on the role of nonverbal behavior in social settings. Primary concerns of the course will include an analysis of the functions of nonverbal behavior (e.g., providing information, regulating interaction, expressing intimacy, exercising influence, and managing impressions), factors influencing nonverbal expression (e.g., culture, personality, relationships), and various theoretical views on nonverbal communication. Applications to various problems and settings in everyday life will also be pursued.

PSYCH 4314 Behavioral Neuroscience: 3 semester hours

Prerequisites: 9 hours of Psych and/or Biology: PSYCH 2211 is recommended but not required. A neuroscience course focusing on behavioral outcomes of brain function and dysfunction. Emphasis will be on modern research methods with animal models and humans. Topics discussed will include the classic findings in the field, but the emphasis will be on recent findings from human neuropsychology, neuroimaging, cognitive neuroscience, neuropharmacology, and neuroendocrinology.

PSYCH 4316 Developmental Psychology: Social Development of Children and Adolescents: 3 semester hours

Prerequisites: PSYCH 1003, PSYCH 2270, and Junior standing, or consent of instructor. This course examines data and theory concerned with social behavior in infants, preschoolers, and school-aged children. Discussion will include emotional regulation; measurement and nature of temperament; the formation and maintenance of attachment relationships; sex-role development; and theories of aggression and the effects of socializing agents such as family, peers, media, and culture on development.

PSYCH 4330 Hormones, The Brain And Behavior: 3 semester hours

Prerequisites: 9 hours of Psychology or Biology, including at least one of the following: PSYCH 2200, PSYCH 2211, or PSYCH 4300 or permission of instructor. This course may be taken for graduate credit with permission of the instructor. Historically, hormones have been studied for their role in reproduction, including reproductive physiology and sexual behaviors. It is now clear, however, that the endocrine system actively interacts with brain regions unrelated to reproduction with the result that sex hormones and neuropeptide hormones influence a wide range of behaviors including mood, anxiety, stress responses, cognition, memory, violence, attachment, aging, weight control and athletic prowess. Emphasis of the class is on hormonal contribution both to reproductive and non-reproductive behaviors with special attention paid to gender behavioral differences.

PSYCH 4349 Human Learning And Memory: 3 semester hours

Prerequisite: Nine hours of psychology or consent of instructor. This course is an introduction to classic and contemporary theories, methodologies, and theoretical perspectives used in the fields of learning and memory. The course will explore the various divisions of memory along with processes involved in the acquisition, retention, and retrieval of information. Some of the specific topics include infantile amnesia, false memory, flashbulb memories, and photographic memory. The course will explore various theories of learning as well as optimal conditions for the long-term retention of information.

PSYCH 4356 Cognitive Processes: 3 semester hours

Prerequisite: Nine hours of psychology or consent of instructor. This course is an overview of the major topics in cognitive psychology, including perception, visual imagery, attention, memory, knowledge representation and retrieval, language, problem solving, reasoning, judgment, decision making, and intelligence.

PSYCH 4365 Psychological Tests And Measurements: 3 semester hours

Prerequisites: Grade of C- or above in PSYCH 2201 and PSYCH 2219, or consent of instructor. This course is a survey of the basic principles, research, and theories on testing and measurement of psychological constructs. Students will critically examine several professionally developed tests and learn about the administration, interpretation, and psychometric qualities of each.

PSYCH 4374 Introduction To Clinical Neuropsychology: 3 semester hours

Prerequisites: Nine hours of Psychology. An introduction to current theory and practice of clinical neuropsychology with a focus on neuropsychological findings concerning relationships between the brain and behavior. Particular attention is devoted to function, neuroanatomy, neurological syndromes, patterns of brain impairment associated with various medical diseases, and methods of neuropsychological assessment and intervention.

PSYCH 4376 Mental Health And Aging: 3 semester hours

Same GERON 4376 and SOC WK 4376. Prerequisites: 9 hours of psychology, graduate standing, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) This course provides a survey of theory and research in mental health issues for older populations, focusing on psychological and social aspects of mental health and impairment. The course details approaches to understanding prevalence, etiology, assessment, and treatment of the psychological disorders most commonly experienced by older adults, including anxiety, depression, delirium, and dementia, among others.

PSYCH 4392 Selected Topics In Psychology: 1-3 semester hoursPrerequisite: Twelve hours of psychology and consent of instructor. A seminar of selected issues and methods in psychology. May be repeated once for credit.

PSYCH 4398 Child Maltreatment: A Multidisciplinary Approach: 3 semester hours

Same as SOC WK 4398. Focuses on clinical aspects of child abuse with attention to identification, reporting, intervention and prevention. Prespectives from the disciplines of psychology and social work are provided.

PSYCH 4999 Integrated Psychology: 2 semester hours

Prerequisites: This course is restricted to Psychology majors and must be taken during majors' final semester of study. This capstone course serves as a review of the primary sub-fields of psychology. An advanced general psychology textbook will guide the class through important contemporary topics in behavioral neuroscience, learning and memory, cognition, psychopathologies and their treatments, and developmental and social psychology. The Major Field Aptitude Test in Psychology will serve as the final exam for the course. All Psychology majors must complete this course with a grade of C- or higher.

PSYCH 5001 Neuropsychological Assessment: 3 semester hours

Prerequisites: Admission to Psychology graduate program, or consent of instructor. This graduate level course will review neuroanatomical systems that mediate primary cognitive networks and methods of assessments and interpretation of data. The course will also review common neurological and psychiatric conditions that result in neuropsychological compromise.

PSYCH 5400 Seminar: Special Topics in Behavioral Neuroscience: 1 semester hour

Prerequisites: Admission to the graduate program in behavioral neuroscience or consent of the instructor. A seminar of selected contemporary topics in behavioral neuroscience. The class will meet weekly to discuss a journal article in the field with special focus on the methodologies used in neuroscience research. May be repeated for a total of 3 credit hours, provided the subject matter is different.

PSYCH 5407 Psychopharmacology: 3 semester hours

Prerequisite: 12 units of graduate-level An examination of the effects of drugs on the brain and on behavior. Primary emphasis is on those drugs used in the treatment of affective disorders, schizophrenia and anxiety.

PSYCH 5465 Seminar: Behavioral Neuroscience: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. Behavioral neuroscience is the study of the relation of the brain to behavior. The field has emerged as the new face of psychology; there are few subfields in psychology that have not been influenced by findings from animal labs, and from human studies employing physiological recordings, neuroimaging and psychotherapeutic drugs. This course will serve as an introduction for graduate students in psychology of brain morphology and function with an emphasis on normal and pathological behaviors.

PSYCH 5468 Seminar: Cognitive Processes: 3 semester hours

Prerequisites: Admission to the Graduate Program in Psychology or consent of instructor. This course is an introduction to classic and contemporary theories, methodologies, and theoretical perspectives used in the field of cognitive psychology. The emphasis is on basic research in the field of cognitive psychology but some applications of these experiments are discussed as well. The class will read and discuss chapters from cognitive psychology textbooks as well as classic and contemporary empirical journal articles in cognitive Psychology.

PSYCH 5610 Mechanisms Of Aging I: The Aging Body: 1 semester hour

Same as SOC WK 5610 and GERON 5610. Prerequisites: Graduate standing and BIOL 1102 or equivalent. (MSW students normally take all foundation courses prior to enrolling in this course.) Introduces students with a social sciences/humanities background to the normal changes in the biology and chemistry of the aging human body and how these changes affect behavior.

PSYCH 5611 Mechanisms Of Aging II: The Aging Brain: 1 semester hour

Same as SOC WK 5611 and GERON 5611. Prerequisites: GERON 5610 or SOC WK 5610 or PSYCH 5610 or equivalent or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background a basic introduction to the biology and chemistry of the aging human brain and nervous system and how these systems impact behavior.

PSYCH 5612 Mechanisms Of Aging III: Diseases Of Aging: 1 semester hour

Same as SOC WK 5612 and GERON 5612. Prerequisites: GERON 5610 and GERON 5611, or SOC WK 5610 and SOC WK 5611, or PSYCH 5610 and PSYCH 5611 or equivalent or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course). Provides students with a social sciences/humanities background with the information on how diseases associated with aging exacerbate the effects of aging on the human body, mind, and behavior.

PSYCH 6441 Aging And Health Behavior: 3 semester hours

Same as GERON 6441. Prerequisite: Graduate standing. This course examines sociocultural influences on health care practices of older adults. The role of social support and other social resources in the health behavior of older adults is emphasized. Topics include self care decisions, formal service utilization, family caregiving, and planned interventions for older adults.

PSYCH 6448 Multicultural Issues In Clinical Psychology: 3 semester hours

Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of instructor. A survey of theoretical perspectives utilized in the treatment of various cultural groups. Their relationship to and implications for the treatment of members of various cultural groups will be explored. Strategies and ethical concerns in diagnosis, test interpretation, and treatment are considered.

PSYCH 6466 Seminar: Developmental Psychology: 1-3 semester hours

Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of instructor. A critical examination of contemporary problems in developmental psychology.

PSYCH 7403 Psychopathology: 3 semester hours

Prerequisite: Admission To Clinical Psychology Program Or Permission Of Instructor. A Critical Examination Of The Clinical-Experimental Literature In Psycholopathology. Etiologies Of Cognitive/Affective Functions And Dysfunctions Are Explored, And Implications For Therapeutic Interventions Are Considered.

PSYCH 7404 Introduction To Clinical Assessment I: 4 semester hours

Prerequisites: Admission to Clinical Psychology program. Fundementals of clinical assessment with emphasis on interviewing and the measurement of cognitive functioning. This course includes a laboratory.

PSYCH 7405 History And Systems In Psychology: 3 semester hours

Prerequisites: Admission to Clinical Psychology program or consent of instructor. A comprehensive overview of the history of psychology with emphasis on the systems of thought that have shaped contemporary psychological theory and research.

PSYCH 7406 Introduction To Clinical Assessment II: 4 semester hours

Prerequisites: PSYCH 7404. This course addresses theory and techniques of personality assessment including clinical interviewing, objective and projective assessment, and integrative report writing.

PSYCH 7410 Women And Mental Health: 3 semester hours

Same as GS 6410. Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of instructor. This course will focus on contemporary research on the psychology of women pertaining to mental health issues. Etiology and treatment of disorders disproportionately affecting women will be emphasized.

PSYCH 7412 Social Psychology: 3 semester hours

Prerequisites: Admittance to psychology doctoral program or consent of instructor. A review of key areas in contemporary theory and research in social psychology.

PSYCH 7419 Existential Issues In Clinical Psychology: 3 semester hours

Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of instructor. This course will review existential thought in psychology and its application to understanding clinical problems and treatment. Particular attention will be given to how psychotherapy can be understood within an existential framework that focuses on the issues of death, freedom, responsibility, and isolation.

PSYCH 7421 Quantitative Methods I: 4 semester hours

Prerequisites: Admission to the Graduate Program in Psychology or consent of instructor. A comprehensive study of univariate statistical concepts and analyses used in psychological research. Topics include descriptive statistics, normal distributions, z, t, F, chi-square statistics, and distributions. Correlation, simple and multiple regression, factorial and repeated measures analysis of variance, significance testing and effect size are also examined.

PSYCH 7422 Quantitative Methods II: 4 semester hours

Prerequisites: PSYCH 7421 and consent of instructor (With laboratory) A comprehensive study of the use of multivariate statistics in data analysis. Topics include the general linear model, multiple regression, factor analysis, and multivariate analysis of variance.

PSYCH 7423 Quantitative Methods III: 3 semester hours

Prerequisites: PSYCH 7422 and PSYCH 7429 and consent of instructor. A selective study of the use of multivariate statistics in data analysis. Topics include structural equation modeling, multilevel modeling, and analysis of longitudinal data.

PSYCH 7429 Psychometric Theory: 3 semester hours

Prerequisites: PSYCH 7421, PSYCH 7422 and consent of instructor A consideration of classical and modern theories of psychological testing. Topics include test reliability, validity and construction.

PSYCH 7430 Introduction To Clinical Skills: 1 semester hour

Prerequisites: Admission to doctoral program in clinical psychology. An introduction to processes and procedures involved in psychotherapy.

PSYCH 7431 Clinical Supervision: 1-3 semester hours

Prerequisite: Admission to Clinical Psychology Program. Supervised experience in clinical practice. May be repeated six times for credit.

PSYCH 7432 Ethics And Professional Issues: 3 semester hours

Prerequisites: Admission to Clinical Psychology program. A study of issues in professional development, clinical supervision, risk management, and ethical standards as they relate to teaching, research, and professional practice.

PSYCH 7433 Clerkship in Clinical Psychology: 1 semester hour

Prerequisites: Admission to the doctoral program in Clinical Psychology. Supervised training in an affiliated agency or organization following completion of two years of course work. (May be repeated 3 times).

PSYCH 7434 Introduction to Clinical Interventions: 3 semester hours

Prerequisites: Admittance to Clinical Psychology program and PSYCH 7406. This course focuses on conceptual and methodological issues that are central to the development, evaluation and application of interventions in clinical psychology. Topics include efficacy and effectiveness research, introduction to theories of behavior change, and applications with specific populations.

PSYCH 7439 Summer Supervision: 1 semester hour

Prerequisites: PSYCH 7431 Supervised experience in clinical practice at all graduate year levels during the summer months. Can be repeated for credit.

PSYCH 7442 Seminar: Cognitive And Behavioral Interventions: 3 semester hours

Prerequisites: PSYCH 7434 This course focuses on the theory and practice of cognitive-behavioral interventions in the field of clinical psychology.

PSYCH 7447 Trauma And Recovery: 3 semester hours

Prerequisites: Graduate Trauma Studies Certificate A comprehensive seminar on the psychological effects associated with exposure to potentially traumatic events. The course will include information on the history of trauma studies; definitions of stressful and traumatic events; common responses to these events; theoretical models for conceptualizing traumatic responses; information on specific types of traumatic events; and issues in treatment.

PSYCH 7449 Research Methods In Applied Psychology: 3 semester hours

Prerequisite: Admission to the Graduate Program in Psychology or consent of instructor. This course focuses on the basics of conducting research in Industrial-Organizational Psychology. Topics include: philosophy of science; reliability and validity; experimental, quasi-experimental, and non-experimental designs; power; meta-analysis; survey/item analyses; and corss-cultural methods.

PSYCH 7450 Clinical Internship I: 1 semester hour

Prerequisite: Consent of advisor. Formal, on year, full-time internship providing student with in-depth supervised training within a site approved by the American Psychological Association. (1 credit taken in both the fall and spring semesters of the internship year).

PSYCH 7451 Clinical Internship II: 1 semester hour

Prerequisite: PSYCH 7450 and consent of advisor. Formal, one-year, full-time internship providing student with in-depth supervised training within a site approved by the American Psychological Association. (1 credit taken in the final summer of the internship).

PSYCH 7454 Seminar: Personnel Psychology: 3 semester hoursAn analysis of theories and research in personnel and industrial psychology. Topics include testing, assessment centers, performance appraisal, and interviewing.

PSYCH 7455 Seminar: Organizational Psychology: 3 semester hours An analysis of theories and research in organizational psychology. Topics include theories of motivation, leadership, job design, group process decision-making, organizational effectiveness, and the relation between organizations and their environment.

PSYCH 7457 Seminar: Special Topics In Industrial Psychology: 3 semester hours

A seminar of selected issues and methods in personnel psychology.

PSYCH 7458 Seminar: Special Topics In Organizational Psychology: 3 semester hours

A seminar of selected issues and methods in organizational psychology.

PSYCH 7459 Practicum In Industrial/Organizational Psychology: 1-4 semester hours

Supervised experience in personnel or human resource management.

PSYCH 7461 Summer Research in I/O Psychology: 1 semester hour Prerequisites: Admission to I/O program. Supervised experience on research topics in I/O psychology at all graduate year levels during the summer months. Can be repeated for credit.

PSYCH 7465 Applied Issues In Organizational Psychology: 3 semester hours

Prerequisites: PSYCH 7455 or consent of instructor course focuses on the application of psychological theory and principles to organizational development consulting. While such consulting is ultimately intended to enhance organizational level functioning, applications of this approach begin with learning at the individual and small group levels. In this course, students work through real-world cases that address real organizational problems. In addition to this casework, the readings and class discussions will address the theoretical and practical links between individual/team learning and organizational development.

PSYCH 7466 Seminar Series in Industrial/Organizational Psychology: 1 semester hour

Prerequisites: Open only to students in the I/O Psychology Graduate Program. A seminar series involving speakers, presentations, and discussions focusing on applied and theoretical perspectives, techniques, and research in the field of Industrial/Organizational Psychology. May be taken up to 6 times for credit.

PSYCH 7469 I/O Professional Issues And Ethics: 3 semester hours

Prerequisite: Consent of Instructor In this course students learn the ethical standards as they relate to teaching, research and professional practice in industrial organizational psychology. Other professional and career issues are also discussed.

PSYCH 7472 Special Topics In Psychology: 1-3 semester hours

PSYCH 7474 Clinical Research In Applied Settings: 3 semester hours

Prerequisites: PSYCH 7421 and PSYCH 7422 This course provides information on the design and implementation of research in applied settings (e.g., human service agencies). Topics include program evaluation, consultation models, risk factor analysis, presentation and health promotion, and quality control.

PSYCH 7476 Seminar In Developmental Psychopathology: 2 semester hours

Prerequisites: Admission to the doctoral program in Clinical Psychology or consent of instructor. Introduction to principles, theory, and methods of study in the field of clinical child psychology. Emotional and behavioral dysfunctions are considered from developmental and socialization perspectives.

PSYCH 7477 Clinical Intervention with Children and Families: 3 semester hours

Prerequisite: PSYCH 7434 and PSYCH 7476. This course provides an overview of the theory and practice of clinical interventions with children, adolescents, and families.

PSYCH 7478 Directed Research In Industrial/Organizational Psychology: 1-4 semester hours

Independent study of an issue in industrial/organizational psychology through the application of research techniques.

PSYCH 7479 Directed Readings In Industrial/Organizational Psychology: 1-4 semester hours

Independent literature review of a topic in industrial/organizational psychology.

PSYCH 7483 Directed Research: 1-10 semester hours

PSYCH 7484 Directed Readings: 1-10 semester hours

PSYCH 7485 Research Team I: 2 semester hours

Group supervision of beginning research leading to the Independent Research Project.

PSYCH 7486 Research Team II: 2 semester hours

Prerequisites: Completion of Independent Research Project or third year standing in doctoral program in clinical psychology. Group supervision of advanced research related to dissertation proposal and program's comprehensive examination required for doctoral candidacy.

PSYCH 7487 Independent Research Project: 1-6 semester hoursPrerequisites: Admission to the doctoral program in clinical psychology Supervised original research project of a clinically-related topic.

PSYCH 7488 Specialty Examination Research: 1-6 semester hoursPrerequisites: Admission to the doctoral program in Clinical Psychology.
Supervised original review and analysis of a clinicallyrelated topic.

PSYCH 7491 MA Thesis Research: 1-10 semester hours PSYCH 7492 Ph D Thesis Research: 1-10 semester hours

College of Business Administration

College of Business Administration Home Page (http://www.umsl.edu/divisions/business)

History

The University of Missouri - St. Louis College of Business Administration was established in 1967, and was accredited by AACSB-International six years later, the shortest time on record for any school to receive accreditation of its business program. AACSB-International is the only internationally recognized accrediting agency for business and accounting programs. In 2006, the College of Business Administration received reaccreditation of its business and accounting programs, both undergraduate and graduate.

Vision

The UMSL College of Business Administration will become one of the top metropolitan public business schools in the country and be recognized as a leading student-centered provider of quality business education.

Mission

Our mission is to increase knowledge of business and to support St Louis in its quest to compete in the global economy. We will accomplish this by:

- Performing innovative research on relevant business issues,
- Providing quality, affordable business education to our diverse student body and the community, and
- Partnering for excellence with the St Louis business community.

Values

Opportunity: We are committed to providing students an opportunity to excel in a rigorous academic business program.

Knowledge: We value the creation, application, and communication of knowledge to advance business disciplines and improve management practices.

Access: We strive to ensure that our programs are accessible and consistent with the land-grant mission of the University of Missouri.

Integrity: We value high standards of professional and ethical conduct.

Excellence: We strive for excellence in our own endeavors and expect it of those with whom we work.

Community: We value our ties with the business and not-for-profit communities, and work to create opportunities of mutual benefits.

Respect: We endeavor to treat all people with dignity and respect, and to maintain fairness in our interactions with all students, employees and the community.

Diversity: We seek to maintain a diverse and involved community of students, faculty, and staff.

Collegiality: We seek to provide a collegial climate that fosters positive relationships among students, faculty and staff.

College of Business Administration Programs

Undergraduate Degrees

- Bachelor of Science in Accounting
- Bachelor of Science in Business Administration (with emphasis areas available in)
 - Finance
 - International Business
 - · Logistics and Operations Management
 - Management
 - · Marketing
- · Bachelor of Science in Information Systems

Undergraduate Minors

- Accounting
- Finance
- · General Business
- · Information Systems
- · International Business
- · Logistics and Operations Management
- Management
- Marketing
- Transportation Studies

Undergraduate Certificate

• International Business Certificate (see International Studies)

Graduate Degrees

- · Master of Accounting
- Master of Business Administration
- Accounting
- Finance
- Information Systems
- · International Business
- Logistics and Supply Chain Management
- Management
- Marketing
- Operations Management
- · Master of Science in Management Information Systems
- Ph.D. in Business Administration
- · Information Systems
- · Logistics and Supply Chain Management

Graduate Certificates

- Graduate Certificate Program in Business Administration
- Graduate Certificate in Human Resources Management
- Graduate Certificate in Logistics and Supply Chain Management
- Graduate Certificate in Marketing Management

Undergraduate Study

Detailed information concerning all degree requirements can be found by visiting The College of Business Undergraduate Advising web site (http://www.umsl.edu/divisions/business/undergrad_advising).

Admission Requirements

Students entering UMSL may declare themselves as business majors in the College of Business Administration (COBA). They are advised by business and may take business courses as long as they maintain "good standing" status (see General Degree Requirements listed below) and have satisfied the prerequisites for the courses they propose to take.

General Degree Requirements-all degrees-all students

- Students must complete a minimum of 120 credit hours for any baccalaureate degree from the College of Business Administration.
- · Students must complete a minimum of 60 non-business hours.
- · Students must complete a minimum of 48 hours in business courses.
- Students must complete a minimum of 36 hours of upper division business courses.
- Students are limited to a maximum of 24 credit hours in any single business discipline beyond core courses.
- Students are limited to a maximum of 78 credit hours in business and economics combined.
- Students must attain a minimum campus grade point average of 2.3.
 Grade modification may be used in calculating this grade point average.
- Students must attain a minimum business grade point average of 2.3. Grade modification cannot be used in calculating this grade point average.
- Students seeking an emphasis area or major within the Bachelor of Science in Business Administration degree, Bachelor of Science in Accounting degree, and/or Bachelor of Science in Information Systems degree must attain a minimum grade point average of 2.3 in the emphasis/major. Grade modification cannot be used in calculating this grade point average.
- A minimum grade of C- is required for each course in the business core (except MGMT 4219); for each course which serves as a prerequisite for another course; and for each course in an emphasis area and/or major.
- Of the maximum of 18 hours which may be taken on a satisfactory/ unsatisfactory graded basis, only 9 hours can be in business, and those are restricted to electives—courses beyond the required business core courses.
- Business course prerequisites are enforced by the College of Business Administration and include a minimum campus grade point average of 2.0 as a condition for taking any upper division business course.
- Emphasis areas may be added for up to two years following degree completion. Each additional degree from the College of Business Administration requires 15 unique hours taken at UMSL subsequent to completion of the prior business degree.
- Students are allowed to take a maximum of 15 hours of upper-division business classes before a "good standing" evaluation is applied to their academic records. In order to remain in good standing and continue to enroll in upper division business courses, students must maintain a 2.3 campus and business grade point average and must have completed the following cluster of courses (with a grade of C- or higher):

ACCTNG 2400 (p. 254)	Fundamentals Of Financial Accounting	3
ACCTNG 2410 (p. 254)	Managerial Accounting	3
BUS AD 2900 (p. 254)	Legal Environment Of Business	3
ECON 1001 (p. 254)	Principles Of Microeconomics	3
ECON 1002		3
INFSYS 2800 (p. 254)	Information Systems Concepts And Applications	3
MATH 1030 (p. 254)	College Algebra	3
MATH 1100 (p. 254)	Basic Calculus	3
MATH 1105 (p. 254)	Basic Probability And Statistics	3

Lower Division Requirements-all degrees--all students

Each student must complete a 42-hour block of general education coursework (p. 28) fulfilling six goals—three skill goals and three knowledge goals. The skill goals include two courses in communicating, one course in managing information and one course in valuing. The knowledge goals include three courses in the social sciences, three courses in the humanities, and four courses in the combined areas of mathematics and science. All courses must be selected from a list (p. 28) approved by the Faculty Senate of the campus. In many instances courses required by the College of Business Administration for each of its degree programs will satisfy a segment of the general education requirements. A list of courses which fulfill the humanities, social science, and math/science knowledge goals can be obtained in the Office of Undergraduate Academic Advising in the College of Business Administration, 487 Social Sciences and Business (SSB) building; or by visiting our web site (http://www.umsl.edu/divisions/business).

Lower Division Non-Business Course Requirements

Students pursuing any undergraduate business degree must complete the following non-business courses:

ECON 1001 (p. 254)	Principles Of Microeconomics	3	
ECON 1002		3	
ENGL 1100 (p. 254)	First-Year Writing	3	
One additional "c	ommunicating skills goal" course		
MATH 1030 (p. 254)	College Algebra	3	
MATH 1100 (p. 254)	Basic Calculus	3	
MATH 1105 (p. 254)	Basic Probability And Statistics	3	
A science lecture course (math/science knowledge goal) A cultural diversity course			

Three humanities courses (humanities knowledge goal) Two social science courses (in addition to those above)

Lower Division Busines Course Requirements

ACCTNG 2400 (p. 254)	Fundamentals Of Financial Accounting	3
ACCTNG 2410 (p. 254)	Managerial Accounting	3
BUS AD 2900 (p. 254)	Legal Environment Of Business	3
INFSYS 2800 (p. 254)	Information Systems Concepts And Applications	3
Total Hours		12

Upper Division Requirements-all degrees--all students

Upper Division Non-Business Requirement

ENGL 3120 (p. Business Writing (with a minimum grade of C-) 254)

Upper Division Non-Business or Business Requirement

Two global awareness courses selected from an approved list maintained in the Office of Undergraduate Academic Advising in the College of Business Administration; also available on our web site. (http://www.umsl.edu/divisions/business)

Upper Division Business Requirements

FINANCE 3500 (p. 254)	Financial Management	3
LOG OM 3300 (p. 254)	Business Statistics	3
LOG OM 3320 (p. 254)	Introduction To Operations Management	3
MGMT 3600 (p. 254)	Management And Organizational Behavior	3
MGMT 4219 (p. 254)	Strategic Management	3
MKTG 3700 (p. 254)	Basic Marketing	3
A minimum of 18 additional hours of upper division approved business electives		
Total Hours		36

Assessment-All degrees--all students

MGMT 4220 (p. Business Assessment Testing (A "Satisfactory" grade is required for graduation.)

Transfer Issues

Students must complete a minimum of 60 hours from four year, baccalaureate degree granting colleges/universities.

A minimum of 50% of all business course work must be completed at UMSL.

Students must complete a minimum of 21 graded hours in business courses.

Individuals must complete their last 30 hours in residence at UMSL.

A minimum of 56 graded hours at UMSL are required to qualify for consideration for Latin Honors.

Students seeking to use a lower division course to satisfy an upper division business requirement must validate the course being transferred. If successfully validated, the transfer course will waive the need to take the upper division equivalent course at UMSL, but the course transferred will be counted as lower division; it will not count toward the 36 upper division hours required in business.

Completion of a 42-hour general education block, which is certified by the sending institution as fulfilling its general education requirement, will be viewed as fulfilling UMSL's general education requirement. However, all lower division courses required as part of a degree program at UMSL must be completed.

Bachelor of Science in Accounting Degree

Lower or Upper	Division Courses Required	6	ò
One of:			
ACCTNG 3460 (p. 254)	Accounting Career Strategies	3	
or COMM 1040 (p. 254)	Introduction To Public Speak	ing	
PHIL 1130 (p. 254)	Approaches To Ethics		
or PHIL 2254 (p. 254)	Business Ethics		

Upper Division Accounting Courses Required: 1

3

ACCTNG 3401 (p. 254)	Financial Accounting And Reporting I	3
ACCTNG 3402 (p. 254)	Financial Accounting And Reporting II	3
ACCTNG 3411 (p. 254)	Cost Accounting	3
ACCTNG 3441 (p. 254)	Income Taxes	3
ACCTNG 3421 (p. 254)	Accounting Information Systems	3
or INFSYS 3810 (p. 254)	Information Systems Analysis	
Total Hours		21

The prerequisite for enrollment in ACCTNG 3402 (p. 254),ACCTNG 3411 (p. 254), ACCTNG 3441 (p. 254), ACCTNG 3451 (p. 254), ACCTNG 3460 (p. 254) and all 4000-level accounting courses is an upper-level accounting grade point average of 2.3. or higher.

See the Office of Undergraduate Academic Advising for alternatives to satisfy the State of Missouri's requirement of 150 hours for eligibility to take the Uniform Certified Public Accounting Examination.

Post-Baccalaureate Certificate in Accounting

Prerequisite

Bachelor's degree (in any subject)

Prerequisite Courses

MATH 1030 (p. 254)	College Algebra ¹	3
ACCTNG 2400 (p. 254)	Fundamentals Of Financial Accounting ²	3
ACCTNG 2410 (p. 254)	Managerial Accounting ²	3

- MATH 1030 (p. 254) College Algebra is a prerequisite for the required accounting courses. It may be taken concurrently with ACCTNG 2400 (p. 254) Fundamentals Of Financial Accounting, but must be completed prior to enrollment in ACCTNG 2410 (p. 254) Managerial Accounting.
- ACCTNG 2400 (p. 254) Fundamentals Of Financial Accounting and ACCTNG 2410 (p. 254) Managerial Accounting are also prerequisites for the 3000-level accounting courses.

Required

Complete 27 hours of accounting courses at the 3000-level or above, at least 15 hours of which are completed at UMSL. The accounting courses must include the six required courses listed below and three accounting electives. Courses previously completed can be waived upon presentation of appropriate documentation. Waived courses will not count toward the 15-hour residency requirement.

Courses must be completed with a grade of C-or higher. The grade point average for all courses counting toward the Post-Baccalaureate Certificate in Accounting must be 2.3 or higher. The prerequisite for enrollment in ACCTNG 3402 (p. 254), ACCTNG 3411 (p. 254), ACCTNG 3441 (p. 254), ACCTNG 3451 (p. 254) and all 4000-level accounting course is an upper-level accounting grade point average of 2.3 or higher.

Required Courses

ACCTNG 3401 (p. 254)	Financial Accounting And Reporting I	3
ACCTNG 3402 (p. 254)	Financial Accounting And Reporting II	3
ACCTNG 3411 (p. 254)	Cost Accounting	3
ACCTNG 3421 (p. 254)	Accounting Information Systems	3
ACCTNG 3441 (p. 254)	Income Taxes	3
ACCTNG 4435 (p. 254)	Auditing	3
Electives		
Select three of the	following: 1	9
ACCTNG 3451 (p. 254)	Accounting For Governmental And Not-For-Profit Entities	
ACCTNG 4401 (p. 254)	Financial Accounting And Reporting III	
ACCTNG 4402 (p. 254)	Financial Accounting And Reporting IV	

ACCTNG 4405 Professional Accounting Research (p. 254)

ACCTNG 4441 Advanced Federal Income Tax: Tax Research And (p. 254) Business Taxation

Total Hours 27

Most of these are offered only once a year.

Notes on qualifying for the CPA exam in Missouri

Successful completion of the Post-Baccalaureate Certificate in Accounting includes all the accounting courses needed to qualify for the CPA exam in Missouri. However, Missouri law also requires a total of 60 credit hours in business (including the accounting courses). Many students with undergraduate degrees in business have satisfied this requirement. A student who has not satisfied this requirement must take additional business classes in order to qualify for the CPA exam.

In addition, Missouri requires 150 credit hours of college level coursework in order to qualify for the CPA exam. A student who has completed a 120-hour undergraduate business degree and the Post-Baccalaureate Certificate in Accounting will need additional coursework in order to satisfy the 150-hour requirement.

Bachelor of Science in Business Administration Degree

General Business

For those undecided regarding a specific emphasis area, a general business degree option is available. Students must complete a minimum of 18 hours of upper division approved business electives (see comprehensive list of business courses in the course descriptions section of this publication)

Emphasis in Finance

Finance is a multidisciplinary field that combines various concepts from management, economics and accounting with financial techniques to make sound business decisions and solve problems.

A minimum of 15 hours of upper division finance electives must be selected from the following:

FINANCE 3501 (p. 254)	Financial Policies	3
FINANCE 3502 (p. 254)	Treasury Management	3
FINANCE 3503 (p. 254)	Computer Applications In Finance	3
FINANCE 3520 (p. 254)	Investments	3
FINANCE 3521 (p. 254)	Financial Engineering: Applying Derivatives	3
FINANCE 3525 (p. 254)	Practicum In Investments	1
FINANCE 3540 (p. 254)	Introduction to Financial Institutions and Financial Markets	3
FINANCE 3541 (p. 254)	Commercial Bank Management	3

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FINANCE 3542 (p. 254)	Principles Of Real Estate	3
FINANCE 3560 (p. 254)	Practice Of Personal Financial Planning	3
FINANCE 3561 (p. 254)	Principles Of Insurance	3
FINANCE 3562 (p. 254)	Life Insurance And Employee Benefits	3
FINANCE 3563 (p. 254)	Retirement Planning And Employee Benefits	3
FINANCE 3564 (p. 254)	Estate Planning And Trusts	3
FINANCE/INTL BUS 3580 (p. 254)	International Corporate Finance	3
FINANCE/INTL BUS 3582 (p. 254)	International Investments	3
FINANCE 3599 (p. 254)	Independent Study In Finance (approved)	1-3

Track Certification

Students may combine selected courses from the list above, and other specified upper division business electives, to fulfill a designated track with dual objectives of acquiring in depth knowledge, and to prepare and be eligible for various professional certification examinations. Detailed information is available in the Office of Undergraduate Academic Advising. The specific tracks available include:

- · Corporate Finance
- · Financial Institutions and Services
- · Investment and Portfolio Management
- Financial Planning
- Insurance

the following: 1

(p. 254)

Emphasis in International Business

National markets are becoming increasingly integrated. The study of international business focuses on understanding the forces behind this globalization of markets and production.

Twelve (12) hours are required of all individuals seeking an emphasis in International Business:

Select two of the following courses:

	FINANCE/ INTL BUS 3580 (p. 254)	International Corporate Finance	
	INTL BUS/ MGMT 3680 (p. 254)	International Management	
	MKTG/INTL BUS 3780 (p. 254)	International Marketing	
S	elect two additio	nal approved international business courses from	6

INTL BUS 3280The Law Of International Business Transactions

	(p. 254)		
	INTL BUS 3282 (p. 254)	Managing The Global Workforce	
	INTL BUS 3283 (p. 254)	International Business And Society	
	INTL BUS 3284 (p. 254)	The Japanese Management System	
	INTL BUS 3289 (p. 254)	Practicum In International Business	
	INTL BUS 3290 (p. 254)	Internship In International Business	
	INTL BUS 3299 (p. 254)	Independent Study In International Business	
	INTL BUS/ FINANCE 3580 (p. 254)	International Corporate Finance	
	INTL BUS/ FINANCE 3582 (p. 254)	International Investments	
	INTL BUS/ MGMT 3680 (p. 254)	International Management	
	INTL BUS/ MKTG 3780 (p. 254)	International Marketing	
	INTL BUS/ MKTG 3787 (p. 254)	Marketing in the European Union	
	INTL BUS 4281 (p. 254)	Entrepreneurship in the Global Environment	
	INTL BUS 4289 (p. 254)	International Stretegic Management	
	INTL BUS/ LOG OM 4381 (p. 254)	International Logistics And Operations Management	
	MGMT 3685 (p. 254)	Role Of The Global Corporation	
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¹ Other than INTL BUS 3289 (p. 254).

Total Hours

6

INTL BUS 3281 Business In China

Proficiency in a foreign language of international commerce (determined by the College of Business Administration) must be demonstrated - 13 credit hours in one approved language or satisfactory performance on the UMSL foreign language placement test.

Students must complete one of the following International Experience Requirements:

INTL BUS 4280 International Business Experience (p. 254)

- 1. Study abroad for three or more credits hours.1
- 2. Complete an international internship approved by the International Business Institute (maximum of 3 credit hours).

- 3. Complete a minimum of one year international experience within 5 years of entering the program in any of the following areas: Peace Corps, volunteer work with an organization, an international posting by a company or government agency and/or approved, significant international experience. Documentation is required for approval.
- International students in the IB Emphasis will meet their International Experience requirement through their study in the United States.

Emphasis in Logistics and Operations Management

This discipline has as its objective to get the appropriate goods or services to the right place, at the right time, in the right quality and quantity—thereby making the greatest contribution to the organization.

Students must complete a minimum of 12 credit hours selected from the following:

LOG OM 3399 (p. 254)	Independent Study In Logistics And Operations Management	1-3
LOG OM 4312 (p. 254)	Business Forcasting	3
LOG OM 4321 (p. 254)	Production and Operations Management	3
LOG OM 4322 (p. 254)	Lean Production In Manufacturing And Service Operations	3
LOG OM 4324 (p. 254)	Service Operations Management	3
LOG OM 4326 (p. 254)	Quality Assurance In Business	3
LOG OM 4330 (p. 254)	Business Logistics Systems	3
LOG OM 4350 (p. 254)	Management Science Methods	3
LOG OM 4354 (p. 254)	Management Science Methods II	3
LOG OM/INTL BUS 4381 (p. 254)	International Logistics And Operations Management	3
INFSYS 3843 (p. 254)	Decision Support Systems for Business Intelligence	3

At most, one of the following courses may be counted toward the LOM emphasis area:

INFSYS 3806 (p.	Managerial Applications Of Object-Oriented	3
254)	Programming I	
INFSYS 3844 (p.	Developing Business Applications In NET	3
254)		

Emphasis in Management

The study of management focuses on the behavior of individuals and groups in an organizational setting.

MGMT 3611 (p. 254)	Advanced Management And Organizational Behavior	3
Select five of the	following:	15
MGMT 3612 (p. 254)	Professional Skills Development	

То	tal Hours		18
	MGMT 4614 (p. 254)	Entrepreneurship/Small Business Management	
	MGMT 3690 (p. 254) or MGMT 3699 (p. 254)	Internship In Management Independent Study In Management	
	MGMT/INTL BUS 3680 (p. 254)	International Management	
	MGMT 3625 (p. 254)	Leadership in Organization	
	MGMT 3624 (p. 254)	Employee Training And Development	
	MGMT 3623/ PSYCH 3318 (p. 254)	Industrial And Organizational Psychology	
	MGMT 3622 (p. 254)	Industrial And Labor Relations	
	MGMT 3621 (p. 254)	Human Resource Management	

Emphasis in Marketing

(p. 254)

Marketing involves the activities needed to facilitate an exchange. This includes selling products, services, or ideas to both individual consumers and business buyers.

MKTG 4700 (p. 254)	Marketing Management	3
Select four addition	onal upper division courses from the following:	12
MKTG 3710 (p. 254)	Consumer Behavior	
MKTG 3720 (p. 254)	Management Of Promotion	
MKTG 3721 (p. 254)	Introduction to Digital Marketing Strategies	
MKTG 3740 (p. 254)	Marketing Research	
MKTG 3750 (p. 254)	Sales Management	
MKTG 3760 (p. 254)	Business To Business Marketing	
MKTG 3770 (p. 254)	Introduction To Transportation	
MKTG 3771 (p. 254)	Traffic And Transportation Management	
MKTG/INTL BUS 3780 (p. 254)	International Marketing	
MKTG 3785 (p. 254)	Women in International Entrepreneurship	
MKTG/INTL BUS 3787 (p. 254)	Marketing in the European Union	
MKTG 3790	Internship In Marketing	

Total Hours		15
MEDIA ST 33: (p. 254)	38Advertising Technique	
MKTG 3799 (p. 254)	Independent Study In Marketing	
MKTG 3798 (p. 254)	Seminar in Marketing	

Bachelor of Science in Information Systems Degree

Mission

(p. 254)

The Information Systems (IS) area endeavors to prepare high-potential students of diverse backgrounds for successful careers in the IS profession. Careers in IS may include programming, systems analysis and design, database administration, end-user support, network administration, and management consulting. The goal is to provide students with the skills to deal with the challenges confronting IS through teaching, research, and service to the profession.

Students are required to complete a minimum of 7 courses beyond required business core courses:

Program	ning:		6
INFSYS (p. 254	S 3816)	Managerial Application Of Object-Oriented Programming II	
INFSYS (p. 254	S 3806)	Managerial Applications Of Object-Oriented Programming I	
Analysis a	nd Desi	ign:	
INFSYS (p. 254		Information Systems Analysis	
INFSYS (p. 254		Information Systems Design	
Database			3
INFSYS 3 254)	845 (p.	Database Management Systems	3
Select 2 c		(at least 1 3800-level Information Systems course) :	6

	(p. 254)	,	
	INFSYS 4850 (p. 254)	Information Systems Design	
Da	atabase:		3
	FSYS 3845 (p. 4)	Database Management Systems	3
	elect 2 courses (om the following:	at least 1 3800-level Information Systems course)	6
	ACCTNG 3421 (p. 254)	Accounting Information Systems	
	FINANCE 3503 (p. 254)	Computer Applications In Finance	
	INFSYS 3807 (p. 254)	Legacy Systems	
	INFSYS 3815 (p. 254)	Object Oriented Applications In Business	
	INFSYS 3841 (p. 254)	Enterprise Information Systems	
	INFSYS 3842 (p. 254)	Management Of Telecommunications	
	INFSYS 3843 (p. 254)	Decision Support Systems for Business Intelligence	
	INFSYS 3844 (p. 254)	Developing Business Applications In NET	
	INFSYS 3846	E-Commerce	

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INFSYS 3847 Web Design
(p. 254)
INFSYS 3848 Security And Information Systems
(p. 254)
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A pre-approved Computer Science class

INFSYS 3898 (p. 254)	Seminar in Information Systems Management ¹
INFSYS 3899 (p. 254)	Independent Study In Information Systems ¹

Seminars and Independent Studies are restricted to those offered by and approved by the Area faculty and approved by the Area Coordinator.

Minors in Business Administration

General Requirements

- All minors are 15 credit hours or 5 courses, including business core courses.
- Students must attain a 2.0 grade point average for all courses in the minor.
- Students must attain a minimum grade of C- in each course included in the minor.
- · All courses in the minor must be on a graded basis.
- A minimum of 9 credit hours of coursework included in the minor must be taken in residence at UMSL.
- · One must complete a baccalaureate degree at UMSL in order for a minor to be conferred.
- A minor may be added for up to two years following completion of the baccalaureate degree

Minor in General Business

This minor is available only to students seeking a baccalaureate degree outside the College of Business Administration.

Select five of the following: 15 INFSYS 1800 Computers And Information Systems (p. 254) ACCTNG 2400 Fundamentals Of Financial Accounting BUS AD 2900 Legal Environment Of Business (p. 254) LOG OM 3320 Introduction To Operations Management

(p. 254) FINANCE 3500 Financial Management (p. 254) MGMT 3600 Management And Organizational Behavior

(p. 254) MKTG 3700 **Basic Marketing** (p. 254)

Total Hours 15

Minor in Accounting

Available to all students except those pursuing the Bachelor of Science in Accounting degree. Students must complete:

ACCTNG 2410	Managerial Accounting	3
(p. 254)	oper division accounting electives	a
	per division accounting electives	9
Total Hours		1

Minor in Finance

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

FINANCE 3500	Financial Management	3
(p. 254)		
Select any four up	oper division finance electives	12
Total Hours		15

Minor in Information Systems

Available to all students except those pursuing the Bachelor of Science in Information Systems degree. Students must complete:

INFSYS 2800 (p. Information Systems Concepts And Applications 254)	3
Select four of the following:	12
At least three of the courses must be 3800-level IS courses	

		<u> </u>
At	least three of th	e courses must be 3800-level IS courses.
	INFSYS 3806 (p. 254)	Managerial Applications Of Object-Oriented Programming I
	INFSYS 3807 (p. 254)	Legacy Systems
	INFSYS 3810 (p. 254)	Information Systems Analysis
	INFSYS 3815 (p. 254)	Object Oriented Applications In Business
	INFSYS 3816 (p. 254)	Managerial Application Of Object-Oriented Programming II
	INFSYS 3841 (p. 254)	Enterprise Information Systems
	INFSYS 3842 (p. 254)	Management Of Telecommunications
	INFSYS 3843 (p. 254)	Decision Support Systems for Business Intelligence
	INFSYS 3844 (p. 254)	Developing Business Applications In NET
	INFSYS 3845 (p. 254)	Database Management Systems
	INFSYS 3846 (p. 254)	E-Commerce
	INFSYS 3847 (p. 254)	Web Design

INFSYS 4850 Information Systems Design

INFSYS 3899 Independent Study In Information Systems ¹

(p. 254)

(p. 254) Total Hours Seminars and Independent Studies are restricted to those offered by and approved by the Area faculty and approved by the Area Coordinator.

Minor in International Business

Available to all students except those pursuing the Bachelor of Science in Business Administration degree with an emphasis in International Business. Students must complete any 5 courses in International Business.

Minor in Logistics and Operations Management

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

3

Select any four upper division logistics/operations management		
electives, including no more than one programming course selected		
from the following:		
INFSYS 3806 Managerial Applications Of Object-Oriented (p. 254) Programming I		

(p. 254) Programming I
or INFSYS 3844Developing Business Applications In NET
(p. 254)

Total Hours 15

Minor in Management

LOG OM 3300 (p. Business Statistics

254)

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

MGMT 3600 (p. 254)	Management And Organizational Benavior	3
MGMT 3611 (p. 254)	Advanced Management And Organizational Behavior	3
Select any three upper division management and organizational behavior electives.		9

Total Hours 15

Minor in Marketing

15

Available to all students except those pursuing the Bachelor of Science in Business Administration degree. Students must complete:

MKTG 3700 (p.	Basic Marketing	3
254)		
Select any four ac	dditional upper division marketing electives.	12

Minor in Transportation Studies

Available to all students. (For those pursuing the BSBA degree, this will result in an emphasis in marketing if the marketing capstone course, MKTG 4700 (p. 254) is taken in addition to the requirements listed below. Such individuals will have completed both LOG OM 3320 (p. 254) and MKTG 3700 (p. 254).)

MKTG 3770 (p.	Introduction To Transportation	3
254)		
MKTG 3771 (p. 254)	Traffic And Transportation Management	3
Select three of th	e following:	9

	LOG OM 3320 (p. 254)	Introduction To Operations Management
	MKTG 3790 (p. 254)	Internship In Marketing
	MKTG 3799 (p. 254)	Independent Study In Marketing ¹
	MKTG 3700 (p. 254)	Basic Marketing
	MKTG 3798 (p. 254)	Seminar in Marketing

No more than one approved independent study course may count towards the minor.

Accounting Courses

Total Hours

ACCTNG 2400 Fundamentals Of Financial Accounting: 3 semester hours

Prerequisites: MATH 1030 and completion of 27 credit hours. MATH 1030 may be taken concurrently. This is a one semester course in financial accounting theory and practice. The primary emphasis is on the corporate financial statements of income, financial position and cash flow-their content and interpretation; and the impact of financial transactions upon them.

ACCTNG 2410 Managerial Accounting: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 2400. This is an advanced course that goes beyond the scope of a second-semester course in fundamentals of accounting. The development, interpretation, and use of relevant cost behavior, control, and traceability concepts for management planning, controlling and decision making are emphasized. Topics include: an introduction to product costing, the contribution concept, direct costing, performance standards and variance analysis, responsibility accounting, segment profitability, alternative choice decisions, and capital budgeting.

ACCTNG 3401 Financial Accounting And Reporting I: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA, MATH 1030, ACCTNG 2410, and 57 credit hours Review of the foundations of financial accounting theory and of the financial statement preparation process. Accounting theory and practice related to current assets (except for investments in securities). The course inlcudes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3402 Financial Accounting And Reporting II: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as investments in securities, operational assets, current and long-term liabilities, and leases. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3411 Cost Accounting: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. The study of the basic principles of cost determination for, and control of, manufacturing and distribution activities. Topics include job-order costing, process costing, cost allocations, and the development and use of standard costs within a system of absorption costing.

ACCTNG 3421 Accounting Information Systems: 3 semester hours
Prerequisites: Minimum campus GPA of 2.0. In addition, MATH 1030,
INFSYS 1800, ACCTNG 2410, and ACCTNG 3401. Examines the
fundamentals of accounting information systems, including hardware and
software considerations, internal controls, and transaction processing
cycles. Also focuses upon the development of efficient spreadsheets as
applied to financial and managerial accounting concepts.

ACCTNG 3441 Income Taxes: 3 semester hours

15

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Fundamentals of Federal income taxation. Topics include taxable entities, income, deductions, tax accounting methods, tax basis, and property transactions at both the conceptual and operational levels.

ACCTNG 3445 I.R.S. Procedures and Federal Taxation of Estates, Gifts and Trusts: 3 semester hours

Prerequisites: MATH 1030 and either ACCTNG 3401 or FINANCE 3560; also a minimum campus GPA of 2.2 in all Accounting courses at the 3000-level and above taken at UM-St. Louis. The first topic includes the federal taxation of estates, gifts and trusts as they relate to wealth management. The second topic concerns interaction with the federal tax authorities. Topics may include preparing an audit protest, a request for an I.R.S. ruling, and a petition to the U.S. Tax Court.

ACCTNG 3451 Accounting For Governmental And Not-For-Profit Entities: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL; also MATH 1030 and ACCTNG 3401. Principles of fund accounting and financial reporting for governmental and nonprofit entities. This course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3460 Accounting Career Strategies: 3 semester hours

Prerequisites: ACCTNG 3401; minimum campus GPA of 2.0 and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This is a course in career and professional development. The primary emphasis is developing and executing a career strategy, enhancing business and client communication skills, and preparing for the transition to the accounting profession.

ACCTNG 3490 Internship In Accounting: 1-3 semester hours

Prerequisites: ACCTNG 3401, a minimum campus GPA of 2.0, a minimum GPA of 2.7 in all accounting courses at the 3000-level and above taken at UM-St. Louis, consent of supervising instructor and accounting internship coordinator. Students are employed in the field of Accounting where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. An accounting faculty member will monitor the student's program with the student providing a formal written report at the end of the project.

ACCTNG 3495 Special Administration Problems - Accounting (VITA) Program: 1-3 semester hours

Prerequisites: ACCTNG 2400, ACCTNG 2410 and ACCTNG 3401; minimum campus GPA of 2.0, minimum GPA of 2.2 in all accounting courses at the 2000-level and above taken at UMSL; completion of nine semester hours of accounting. Enrollment in the course is restricted to volunteer Income Tax Assistance (VITA) program student participants. The class offers practical tax experience, networking opportunities, potential managerial experience, and personal satisfaction derived from community service. It is taken on a satisfactory/unsatisfactory basis. The course offers one to three hours of undergraduate business elective credit and may be repeated for up to 3 hours credit.

ACCTNG 3498 Seminar in Accounting: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum campus GPA of 2.0 and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This course is a selected special topic in the field of accounting. May be repeated for credit with different topics.

ACCTNG 3499 Independent Study In Accounting: 1-3 semester hours

Prerequisites: Minimum campus GPA of 2.0, a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL and approval by the supervising professor and the department chair. Special individual study in accounting under the supervision of a full-time accounting faculty member.

ACCTNG 4401 Financial Accounting And Reporting III: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3402; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as income taxes, pensions, owners' equity, earnings per share, and the statement of cash flows. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 4402 Financial Accounting And Reporting IV: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3402; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as business conbinations, consolidated financial statements, multinational operations, foreign exchange transactions, and governmental and nonprofit organizations. The course includes an emphasis on unstructured problem solving skills, communication skills, and interpersonal skills.

ACCTNG 4405 Professional Accounting Research: 3 semester hours

Prerequisites: ACCTNG 4401; also a minimum campus GPA of 2.0 and minimum GPA of 2.2 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Discussion of the research tools and methods available to resolve questions concerning accounting standards and practices. Critical analysis of topics of current interest and importance in accounting practice is the focal point of the course.

ACCTNG 4435 Auditing: 3 semester hours

Prerequisites: MATH 1105; ACCTNG 3402; ACCTNG 3421 or INFSYS 3810; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. An introduction to auditing practice. Includes the social role of auditing and the services offered by auditors in internal, governmental, and public accounting practice. Emphasis is on the financial auditing process, including professional ethics, audit risk assessment, study and evaluation of internal control, gathering and evaluating audit evidence, and audit reporting decisions.

ACCTNG 4441 Advanced Federal Income Tax: Tax Research And Business Taxation: 3 semester hours

Prerequisites: ACCTNG 3441 with a grade of B or above; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Uses internet-based tax research service to conduct research that resolves tax law questions. Also, focuses on federal income taxation of corporations, S corporations, partnerships, LLCs and their owners.

ACCTNG 5400 Financial And Managerial Accounting: 3 semester hours

This course provides an introduction to accounting, with emphasis on preparation of financial statements for external parties (financial accounting) and accumulation of cost information to aid internal planning and control (managerial accounting). Topics covered include measurement of assets and liabilities, revenues and expenses, the accounting cycle, financial statements, cost terminology, cost behavior, product costing, and relevant costs for decision making. This course provides the necessary background for ACCTNG 5401.

ACCTNG 5401 Financial Reporting And Analysis: 3 semester hours

Prerequisites: ACCTNG 5400 or the equivalent. This course builds on the foundations covered in ACCTNG 5400, emphasizing in-depth analysis of published financial statements. The course begins with discussion of the role of financial accounting information in capital markets and contracting, and continues with examination of a number of specific accounting issues. Students are encouraged to look behind the numbers to better understand the economics of the underlying transactions, and properly interpret what the reported numbers mean about a firm's future prospects.

ACCTNG 5402 Professional Accounting Research: 3 semester hours Prerequisites: ACCTNG 4401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. Discussion of the research tools and methods available to resolve questions concerning accounting standards and practices. Critical analysis of topics of current interest and importance in accounting practice.

ACCTNG 5403 Seminar In Financial Accounting: 3 semester hours

Prerequisites: ACCTNG 4401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of current financial reporting issues. Analysis of current problems and approaches pertaining to the communication of corporate financial information to the U.S. and international investment communities.

ACCTNG 5404 Professional Accountancy I: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 2410; a minimum 2.0 campus GPA; graduate standing. This is the first professional-level course in financial reporting. The course includes a study of the conceptual framework underlying Generally Accepted Accounting Principles (GAAP) and issues pertaining to accounting for current assets and liabilities.

ACCTNG 5405 Professional Accountancy II: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in II accounting courses at the 3000-level and above taken at UMSL; graduate standing. This is the second professional-level course in financial reporting. The course includes an in-depth study of issues pertaining to accounting for operational assets, liabilities and owners equity.

ACCTNG 5406 Research and Professional Writing in Accounting: 3 semester hours

Prerequisites: Completion of ACCTNG 4401 and enrollment in Master of Accounting Program.. This course employs the professional accounting literature and authoritative databases to analyze contemporary issues in accounting. Students will refine their communication skills in preparation for leadership roles in the accounting profession.

ACCTNG 5408 Fraud Examination: 3 semester hours

Prerequisites: ACCTNG 3402 or ACCTNG 5405; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This course is designed for graduate students who are interested in fraud and its effects. Students will be introduced to theoretical concepts of fraud and practical responses to it. Course coverage includes an overview of the fraud problem; prevention and detection of fraud; elements of fraud investigation, interview techniques, fraud types, and laws governing the prosecution of fraud cases.

ACCTNG 5411 Cost Systems Analysis: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting coursesat the 3000-level and above taken at UMSL; graduate standing. The development, interpretation, and use of accounting reports and supplementary information for management planning, control and decision making. Emphasizes the application of relevant cost behavior, control and traceability concepts in the preparation of internal accounting reports, with a secondary emphasis upon product costing techniques as appropriate to financial accounting needs. Topics include break-even analysis, operational budgeting, direct costing, absorption costing, standard costs and variance analysis, business segment analysis, responsibility accounting distribution cost accounting, and gross profit analysis.

ACCTNG 5412 Seminar in Controllership: 3 semester hours

Prerequisite: ACCTNG 3411 or ACCTNG 5411; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of advanced managerial accounting techniques useful in facilitating the planning and control process in the modern organization. Emphasis on the implementation and administration of these techniques, their integration with management information systems, and the organizational role of the corporate accountant.

ACCTNG 5421 Information Systems in Accounting: 3 semester hours Prerequisites: MATH 1030; INFSYS 1800; ACCTNG 2410; ACCTNG

3401; a minimum campus GPA of 2.0; graduate standing. This is a professional-level course in accounting information systems. The course includes examination of transaction cycles, structured analysis and design of accounting information systems, and internal controls.

ACCTNG 5435 Seminar In Auditing: 3 semester hours

Prerequisite: ACCTNG 4435; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of advanced auditing and attestation issues, with an emphasis on operational auditing. Topics include professional ethics, risk analysis, internal control, fraud detection, analytical procedures, determining and assessing operational objectives, and reporting and implementing audit findings.

ACCTNG 5436 Systems Auditing: 3 semester hours

Prerequisite: ACCTNG 5400, INFSYS 6800 or consent of instructor. Study of techniques involved in the control and audit of computer-based systems. Emphasis on the review of internal controls at operational and administrative levels and on computer-assissted audit techniques.

ACCTNG 5446 Advanced Topics in Taxation: 3 semester hours
Prerequisites: ACCTNG 3441. Address advanced topics in taxation
selected by the instructor.

ACCTNG 5447 Taxation of Individuals and Businesses: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL; graduate standing. This is the first professional-level course in taxation. The course includes a general introduction to the concepts of taxation. It will enable students to understand the role of taxes in evaluating decisions typically confronted by individual taxpayers and businesses.

ACCTNG 5451 Accounting and Auditing in Governmental and Notfor-Profit Entities: 3 semester hours

Prerequisite:ACCTNG 3401 and graduate standing; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of accounting for use in the public sector and in not-for-profit organizations. Principles of fund accounting and financial reporting for governmental and not-for-profit entities, as well as auditing in the public sector.

ACCTNG 5480 International Accounting: 3 semester hours

Same as INTL BUS 5480. Prerequisites: ACCTNG 3402. Accounting practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting standards, and managerial accounting practices related to multinational operations.

ACCTNG 5490 Graduate Internship in Accounting: 1-3 semester hours

Prerequisites: ACCTNG 3401 or ACCTNG 5404; a minimum graduate GPA of 3.0; a minimum GPA of 3.0 in all accounting courses at the 3000-level and above taken at UMSL; consent of supervising instructor and accounting internship coordinator. The student works in an accounting internship that contains sufficient content and rigor to merit graduate credit. The student's program will be monitored by a member of the Graduate Faculty in Accounting. The course requires several meetings with the faculty advisor and a graduate-level written assignment. The course will be graded on a Satisfactory/Unsatisfactory basis. A student who has previously taken ACCTNG 3490 may not take ACCTNG 5490.

ACCTNG 5491 Contemporary Issues In Accountancy: 3 semester hours

Prerequisites: ACCTNG 5405 or ACCTNG 3402. This course includes an analysis of contemporary developments in the practice of accountancy or theories underlying it. This course may address topics in accountancy in any area of specialization (financial, cost/managerial, tax, auditing, governmental/NFP) or may examine topics that affect the profession as a whole. Topics will vary. May be repeated for credit when topics are different.

ACCTNG 5498 Graduate Seminar in Accounting: 3 semester hours

Prerequisites: To be determined each time the course is offered and to include a minimum 2.0 overall GPA and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. Study of selected special problems in accounting. May be repeated for credit with different topics.

ACCTNG 5499 Individual Research in Accounting: 1-3 semester hours

Prerequisites: Consent of instructor, department chair and graduate director; a minimum 3.0 graduate GPA; a minimum GPA of 3.0 in all accounting courses at the 3000-level and above taken at UMSL. Special individual research topics in Accounting under the guidance of a specific professor.

ACCTNG 6441 Seminar In Taxation: 3 semester hours

Prerequisite: At least a B in ACCTNG 3441 or ACCTNG 5447; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL.. Addresses tax policy topics drawing on literature from accounting, economics, and public finance. Other topics of current interest will be selected by the instructor.

Business Administration Courses

BUS AD 1000 Introduction to Business: 3 semester hours

Overview of the functional business disciplines, including, but not limited to principles of Accounting, Finance, Information systems, Law, Logistics and Operations Management, Management, and Marketing.

BUS AD 1900 Introduction to Personal Law: 3 semester hours

This course introduces students to the American legal system and the basic issues every individual must deal with in our society. The course will be of interest to anyone seeking a job, leasing an apartment, buying a car or house, borrowing money, buying insurance, getting married or divorced, entering contracts, filing a law suit, writing a will, or accumulating wealth. May not be used for credit in any undergraduate business program.

BUS AD 2000 Topics In Business Administration: 1-3 semester hours

Prerequisites: Vary with topic; contact the School of Business Administration. Study of selected special problems in business and administration. May be repeated for credit with different topics.

BUS AD 2900 Legal Environment Of Business: 3 semester hours

Prerequisites: Sophomore Standing. An introduction to the nature and meaning of law, sources of law, legal process and institutions. The legal environment of business is defined as: the attitude of the government toward business, the historical development of this attitude; current trends of public control in taxation, regulation of commerce and competition; freedom of contract, antitrust legislation and its relationship to marketing, mergers and acquisitions; and labor management relations.

BUS AD 3090 Internship In Business Administration: 1-3 semester hours

Prerequisites: Minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 hours of Business Administration electives and have consent of supervising instructor and Associate Dean. College of Business GPA of at least 2.5 is also required. Students are employed in the field of Business Administration where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. A Business Administration faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BUS AD 3090 may not be counted toward the minimum credit hours for any emphasis area.

BUS AD 3099 Independent Study In Business Administration: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the associate dean. Special individual study in business under the supervision of a full-time faculty member.

BUS AD 3198 Business Administration Seminar: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall gpa.

BUS AD 3900 Business Law: Contracts, Sales, Secured Transactions, Bankruptcy: 3 semester hours

Prerequisite: BUS AD 2900, or consent of instructor. Introduction to the laws of contracts, sales, secured transactions, bankruptcy, and other selected topics.

BUS AD 3901 Business Law: Negotiable Instruments, Business Organ., Property: 3 semester hours

Prerequisites: ACCTNG 2400, ECON 1001, and a 2.0 overall GPA or Junior Standing and a 2.0 overall GPA. Introduction to the laws of negotiable instruments, the principal-agent relationship, partnerships, corporations, property, and other selected topics.

BUS AD 3990 Internship In Business Law: 1-3 semester hours

Prerequisites: BUS AD 2900, 3 credit hours of Business Law electives, and a Business College 2.5 GPA. Must have completed and/or be currently enrolled in at least 3 credit hour of Business Law electives and have consent of supervising instructor and Area Coordinator. Students are employed in the field of Business Law where the knowledge and skills learned in the classroom are applied. Professional development and obtaining specialized work experience are primary goals. A Business Law faculty member will monitor the student's program with the student providing a formal written report at the end of the project.

BUS AD 3999 Independent Study In Legal Studies: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in legal studies under the supervision of a full-time legal studies faculty member.

BUS AD 4198 Business Administration Senior Seminar: 1-10 semester hours

Prerequisites: To be determined each time the course is offered and to include minimum 2.0 campus GPA. An intensive study of a specific area of business administration, of some specific business or economic phenomenon, or a specific problem or theory. Several different courses may be offered under this course number. May be repeated for credit as long as the topic differs.

BUS AD 5000 Economics For Managers: 3 semester hours

Prerequisites: none The first portion of this course introduces microeconomic analysis of consumers, firms, and government. The concepts and tools of economic analysis are applied to the production and distribution functions of organizations. The last portion is devoted to the macroeconomic influence of capital markets, the influence of interest rates, inflation, and the business cycle.

BUS AD 5001 Managerial Economic Analysis: 3 semester hours

Prerequisites: BUS AD 5000 or ECON 1001 and ECON 1002. Microeconomic analysis of consumers, firms, and government. The concepts and mathematical tools of economic analysis are applied to the production and distribution functions of organizations.

BUS AD 5002 Analysis Of National Economic Environment: 3 semester hours

Prerequisites: BUS AD 5000 or ECON 1001 and ECON 1002. The character and functioning of the national economic system; analyzing and forecasting fluctuations in national income and product, employment, and prices; the influence of monetary and fiscal policies. Emphasis is on the acquisition of knowledge concerning forces affecting all business firms.

BUS AD 5100 Managerial Communication: 3 semester hours

An analysis of business writing and speaking, and the communication conventions common in organizations. Emphasis is placed on developing skills critical to career advancement and necessary for effective organizational functioning. A second goal is to prepare students for assignments in other business courses. This course must be taken within the first 12 credit hours of study, preferably in the student's first semester.

BUS AD 5198 Seminar In Business Administration: 3 semester hoursAn intensive study of a specific area of business administration of some specific business or economic phenomenon, or a specific problem or theory. Several different courses may be offered under this course number.

BUS AD 5299 Individual Research: 1-3 semester hours

Prerequisite: Consent of instructor and graduate director Special individual research topics under the guidance of a specific professor.

BUS AD 5442 Taxation Of Estates, Gifts And Trusts: 3 semester hours

Prerequisite: ACCTNG 3441 And ACCTNG 5441 or Consent of Instructor. Consideration of the transfer tax system in general; the elements of the gross estate (includible versus nonincludible property), deductions (including the marital deduction) and credits; the gift tax and what it embraces; basic estate planning considerations; and income taxation of grantor and nongrantor trusts.

BUS AD 5443 Taxation Of Corporations And Shareholders: 3 semester hours

Prerequisite: ACCTNG 3441 and ACCTNG 5441 or consent of the instructor. Addresses tax aspects of the formation, operation, and liquidation of a corporation as well as in the corporate structure through division or reorganization. Topics include establishment of the corporate structure, distributions to shareholders, and stock dividends and redemptions.

BUS AD 5444 Taxation Of Partnerships And Partners: 3 semester hours

Prerequisites: BUS AD 3441 and ACCTNG 5441 cr consent of instructor. Addresses tax aspects of the formation, operation and termination of a partnership. Topics include special allocations and disposition of a partnership interest. Compares partnerships with subchapter and S corporations.

BUS AD 5445 Tax Practice And Procedure: 3 semester hours

Prerequisite: Ba 3441 Or Consent Of Instructor. Addresses The Audit Process; Practice Before The Internal Revenue Service; Administrative Appeals; The Notice Of Deficiency; Waivers And Extensions; Amended Returns And Claims For Refund; Statute Of Limitations On Deficiencies And Over-Payments; And Taxpayer And Tax Return Preparer Penalties.

BUS AD 5450 Governmental Budgeting And Financial Control: 3 semester hours

Prerequisite: ACCTNG 5440. A study of municipal and federal financial control and budgeting procedures with emphasis on public policy. The impact of financial control on top management decisions and the effect of budget strategies on the allocations of public funds.

BUS AD 5900 Law, Ethics And Business: 3 semester hours

Analysis of the relationship between law and business with emphasis on the ability of, and extent to which, governments regulate business activities. Topics covered include the employer-employee relationship, protection of consumers, antitrust regulation, and securities law. Also discussed are ethical issues confronting management of the modern business enterprises.

BUS AD 6990 Strategy Formulation And Implementation: 3 semester hours

Prerequisites: FINANCE 6500, MGMT 5600, MKTG 5700, LOG OM 5320 and special consent. Graduate program capstone course examining concepts and methods that integrate functional areas of business. The perspective is that of general management charged with directing the total enterprise. Interactions between the environment, organization, strategy, policies and the implementation of plans are explored. Special emphasis is given to globalization of business and ethical perspectives. This course should be taken during the semester prior to graduation. In no case may it be taken sooner than two semesters prior to graduation.

BUS AD 7001 Doctoral Research: 1-12 semester hours

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval Investigation of an advanced nature culminating in preparation for comprehensive examinations and/or development of dissertation proposal. The course may be repeated for credit.

BUS AD 7002 Dissertation Research: 1-12 semester hours

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval. Investigation of an advanced nature culminating preparation of a doctoral dissertation. The course may be repeated.

BUS AD 7021 Qualitative Methods And Philosophical Foundations Of BA Research: 3 semester hours

Prerequisites: Admittance into the Ph.D. Program This course investigates the ontology and epistemology of business administration research, particularly as they pertain to qualitative research methods, such as case studies, action research, and ethnomethodology.

BUS AD 7300 Statistical Modeling: 3 semester hours

Prerequisites: LOG OM 5300; Admittance into the Ph.D. Program. Study of multivariate analytical techniques and their application to the analysis of business systems. Topics include the construction and adaptation of statistical models and extrapolative techniques to accommodate factor interactions, nonlinearities, and periodic effects. Methodologies include multiple regression, ANOVA, and general linear model, MANOVA, structural equation modeling, and time series modeling.

Finance Courses

FINANCE 1590 Personal Finance For Nonbusiness Majors: 3 semester hours

For future professionals who want to learn more about personal finance and how to better manage their resources. The topics include purchasing/ leasing cars, home acquisitions, investing in stocks and bonds, mutual funds, retirement planning and health and life insurance. Special emphasis will be on the nontechnical aspects of these issues. Cannot be used for credit in BSBA program.

FINANCE 3500 Financial Management: 3 semester hours

Prerequisites: ECON 1002, MATH 1105, and ACCTNG 2400 and a 2.0 overall gpa. The study of a firm's need for funds; the institutions, instruments and markets concerned with raising funds; and the techniques of analysis used to determine how effectively these funds, once raised, are invested within the firm.

FINANCE 3501 Financial Policies: 3 semester hours

Prerequisite: FINANCE 3500 and a 2.0 overall GPA. The intensification and application of the concepts developed in FINANCE 3500. Special emphasis is given to the development of top management policies and their application toward complex problems of finance. Techniques for identifying and dealing with these problems before they become acute will be investigated. Cases will be integrated with appropriate outside reading.

FINANCE 3502 Treasury Management: 3 semester hours

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. The focus of this course is on the role cash management plays in corporate finance. Topics include cash collection and payment systems, forecasting cash flows, electronic fund transfers, check processing, international cash management and managing bank relationships. Students passing the course with a grade of A or B are permitted to take the qualifying exam to become a Certified Cash Manager (CCM) under a special arrangement with the Treasury Management Association. Along with other finance courses, this class prepares students for careers in the Treasury Departments of major companies or with service providers like banks.

FINANCE 3503 Computer Applications In Finance: 3 semester hours Prerequisite: INFSYS 1800, FINANCE 3500, one 3000-level finance course and a 2.0 overall GPA. Financial problem solving and applications on the micro-computer. A project oriented course with an emphasis on micro based finance projects: Present value/IRR analysis, duration, immunization, portfolio optimization, leasing, capital budgeting, financial forecasting, options and futures.

FINANCE 3520 Investments: 3 semester hours

Prerequisite: FINANCE 3500 and a 2.0 overall GPA. Financial analysis of debt and equity instruments available on organized exchanges and in less tangible "over the counter" markets. Techniques of such analysis being presented in context with economic and management circumstances within the company, industry and economy.

FINANCE 3521 Financial Engineering: Applying Derivatives: 3 semester hours

Prerequisites: FINANCE 3500. Students engage in a comprehensive investigation of advanced risk management techniques. Futures, forwards, options and synthetic securities are explored to determine their effectiveness in generating the desired risk exposure. A comprehensive study of speculative market conditions and characteristics are assessed in conjunction with a variety of financial innovations. Valuation techniques and hedging theories are combined with mathematical models to determine their effectiveness in practical situations. Special topics are introduced as market conditions dictate. It is recommended that students take Investments (FINANCE 3520) prior to enrolling in FINANCE 3521.

FINANCE 3523 Fixed Income Analysis: 3 semester hours

Prerequisites: FINANCE 3500. This course explores key issues in fixed income securities. The topics include pricing of bonds, measuring bond yields, bond price volatility, factors affecting yields and the term structure of interest rates, treasury securities, corporate debt instruments, residential mortgage loans, collateralized mortgage/debt obligation, and analysis of bonds with embedded options. The course prepares students for the CFA exams of Level 1 in the area of fixed income analysis.

FINANCE 3525 Practicum In Investments: 1 semester hour

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. Students will apply their knowledge of stocks and bonds by managing a real dollar portfolio of securities. This course requires that students perform technical and fundamental analysis, prepare research reports, present proposals and participate in group investment decisions. The University's Student Investment Trust provides the money for students to invest. Course may be repeated for credit up to a maximum of 3 credit hours.

FINANCE 3540 Introduction to Financial Institutions and Financial Markets: 3 semester hours

Prerequisite: FINANCE 3500 And A 2.0 Overall GPA. The course surveys financial institutions and financial markets and addresses the interplay between institutions and markets. State and federal regulation of institutions and markets is explored. A portion of the course addresses current events, managerial policy issues, and regulatory issues in financial services and markets. Focus is primarily U.S. institutions and markets, but the evolving impact of globalization and importance of the Foreign Exchange Market on U. S. financial institutions are developed.

FINANCE 3541 Commercial Bank Management: 3 semester hours

Prerequisites: ECON 1002, FINANCE 3500 and a 2.0 overall GPA. Corporate finance and microeconomics are applied to matters of importance to commercial bankers. Among the subjects treated are bankasset portfolio construction, lending policies, liabilities management, bank capital structure, short-run cash management, financial market rates and flows, and quantitative models for bank management. Commerical bank management is analyzed from an internal viewpoint in terms of what bank managers should look for in asset management and why; what market conditions they should be aware of; and what techniques they can use to meet changing economic and financial conditions.

FINANCE 3542 Principles Of Real Estate: 3 semester hours

Prerequisites: BUS AD 3500 and a 2.0 campus GPA. As an introduction to the real estate industry, the course broadly explores all phases of acquisition, development and disposal of real property. Topics include legal requirements of contracts, property rights, valuation and appraisal techniques, marketing, brokerage operations and practices, mortgage financing, leasing and property management.

FINANCE 3560 Practice Of Personal Financial Planning: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator. Professional financial planning requires broad knowledge of investments, insurance, income taxation, retirement planning, and estate planning, as well as certification requirements and legal/ethical issues. This course introduces students to the field of financial planning, and provides an integrated overview of the topics listed above. Students interested in the Financial Planning track are encouraged to complete this course prior to taking other courses in the track.

FINANCE 3561 Principles Of Insurance: 3 semester hours

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. This is a survey course intended to introduce students to the basic concepts of insurance. Topics include the nature of risks, types of insurance carriers and markets, insurance contracts and policies, property and casualty coverages, life and health insurance, and government regulations. The functions of underwriting, setting premiums, risk analysis, loss prevention, and financial administration of carriers are emphasized.

FINANCE 3562 Life Insurance And Employee Benefits: 3 semester hours

Prerequisites: FINANCE 3500 or equivalent and a minimum campus GPA of 2.0 This course explores the life insurance business from the perspective of both the consumer and provider. Coverage will include an analysis of the various types of life insurance products, aspects of life insurance evaluation, reinsurance, underwriting, and uses of life insurance in financial planning. Also included is an examination of the tax, legal, and ethical requirements.

FINANCE 3563 Retirement Planning And Employee Benefits: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator The course is designed to give students an understanding of the retirement planning process. Students will gain an appreciation of the usefulness (and shortcomings) of employee benefits and develop an ability to counsel others on important retirement and employee benefit decisions. Corporate pension and profit sharing plans, self-employed Keough plans, IRA's, annuities, health insurance, and social security will be discussed.

FINANCE 3564 Estate Planning And Trusts: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator This course will focus on the responsibility of a financial planner in the formulation and implementation of an estate plan. Topics include wills, lifetime transfers, trusts, gifts, estate reduction techniques, tax implications in estate planning, business and inter-family transfers, dealing with incompetency, postmortem techniques, and the role of fiduciaries. Lectures, cases, and guest speakers will be used to stimulate analysis and discussion.

FINANCE 3565 Seminar in Financial Planning: 3 semester hours
Prerequisites: ACCTNG 3441, FINANCE 3520, FINANCE 3560, FINANCE
3561, FINANCE 3563, and FINANCE 3564; a minimum campus GPA of
2.0; or permission of instructor. This course serves as the capstone in
the registered Financial Planning curriculum. Students will prepare and
present comprehensive, professional-level personal financial plans. This
course is required by the Certified Financial Planner Board of Standards
for those who wish to sit for the Certified Financial Planner examination.

FINANCE 3580 International Corporate Finance: 3 semester hours
Same as INTL BUS 3580. Prerequisites: FINANCE 3500 and a 2.0
campus GPA. This course explores corporate finance in the context of
a global environment. Financial managers for an international firm must
deal with all the normal problems faced by domestic corporations plus
additional foreign exchange and political risks. Class discussions will focus
on applying financial techniques to decision making in foreign operations.
Students are required to work in a group to undertake a project related to
international finance.

FINANCE 3582 International Investments: 3 semester hours

Same as INTL BUS 3582. Prerequisites: FINANCE 3500. This course explores the concepts of investing and hedging risk management, portfolio diversification, currency risk, asset pricing, and alternative portfolio strategies. Techniques for using derivatives are discussed in the context of hedging exchange rate risk. Reading foreign exchange quotes and understanding the functioning of global markets is central to the course. A prior course in investments is recommended but not required.

FINANCE 3590 Internship In Finance: 1-3 semester hours

Prerequisite: a minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of finance electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience in a Track area are the primary goals. The student's program will be monitored by a finance faculty member with the student providing a formal written report at the end of the project. FINANCE 3590 may not be counted toward the minimum 15 credit hours of finance electives for a finance emphasis.

FINANCE 3595 Special Administration Problems - Finance: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

FINANCE 3598 Seminar in Finance: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of finance. May be repeated for credit with different topics.

FINANCE 3599 Independent Study In Finance: 1-3 semester hoursPrerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in finance under the supervision of a full-time finance faculty member.

FINANCE 5599 Individual Research in Finance: 1-3 semester hoursPrerequisites: Consent of instructor and graduate director. Special individual research topics in Finance under the guidance of a specific professor.

FINANCE 6500 Financial Management: 3 semester hours

Prerequisites: ACCTNG 5440 or ACCTNG 2400, LOG OM 5300 or LOG OM 3300, and BUS AD 5000 or ECON 1001 and ECON 1002. This course provides an in-depth analysis of corporate finance including asset pricing, risk and return, short- and long-term investment decisions, capital structure choices, dividend policy, derivatives, mergers and acquisitions, and a host of other current topics. The material is taught through lectures and problem solving.

FINANCE 6501 Advanced Financial Management: 3 semester hours
Prerequisite: FINANCE 6500 and LOG OM 5300. Exposure to recent
financial management theory through selected readings. Financial
management problems are considered by the use of cases and simulation
models. An original research project under the supervision of instructor is
required.

FINANCE 6520 Security Analysis: 3 semester hours

Prerequisite: FINANCE 6500 and LOG OM 5300 An in-depth study of techniques used in evaluating various financial assets as investment opportunities. Financial assets studied include common stock, preferred stock, and fixed income securities. Other related topics such as sources of investment information and current market trends are discussed.

FINANCE 6521 Financial Forensics: The Science of Derivatives: 3 semester hours

Prerequisites: FINANCE 6500. Students engage in a comprehensive investigation of advanced risk management techniques. Futures, forwards, options and synthetic securities are explored to determine their effectiveness in generating the desired risk exposure. A comprehensive study of speculative market conditions and characteristics are assessed in conjunction with a variety of financial innovations. Valuation techniques and hedging theories are combined with mathematical models to determine their effectiveness in practical situations. Special topics are introduced as market conditions dictate. It is recommended that students take Investments (FINANCE 6520) prior to enrolling in FINANCE 6521.

FINANCE 6540 Financial Institutions and Financial Markets: 3 semester hours

Prerequisite: Graduate Status and FINANCE 6500. By lecture and casework, the course surveys markets (Money Market, Capital Markets, Foreign Exchange) and various forms of financial institutions. Historical and evolving business models of financial institutions are explored in the context of regulation, economics, and competition. Interplay between institutions and markets is addressed. Structure and purpose of regulation is examined. A portion of the course involves current events and managerial policy issues in financial services. A major U.S. financial institution is selected and case analyzed by the class. Focus is U.S. institutions and markets, but impact of globalization is discussed.

FINANCE 6541 Commercial Bank Management: 3 semester hours

Prerequisite: FINANCE 6500. This course explores the various bank management techniques required to manage a modern commercial bank in a rapidly changing environment. Topics include asset and liability management, capital adequacy, bank holding companies, profitability , and bank market structure and regulation.

FINANCE 6542 Real Estate: 3 semester hours

Prerequisite: FINANCE 6500 This course provides a broad introduction to real estate with a focus on legal issues, market analysis, valuation, financing, leasing and investment decisions. Classes are conducted in a in a standard lecture format with dicussion on current topics. No prior knowledge of the industry is required.

FINANCE 6580 International Financial Management: 3 semester hours

Same as INTL BUS 6581. Prerequisite: FINANCE 6500. The objective of this course is to introduce students to financial issues for multinational firms. Besides covering basic tools and techniques, the class stresses the role of the financial manager in analysis and decision-making. Topics include the impact of international accounting and tax issues, capital budgeting in a foreign environment, transfer pricing, and global funding. Conceptual skills for lifelong learning experiences are emphasized. This course emplys a lecture and case format with group discussions.

FINANCE 6581 Seminar In International Investments: 3 semester hours

Same as INTL BUS 6581. Prerequisite: FINANCE 6500 This course covers topics related to the determination of exchange rates, international parity relations and portfolio diversification. In addition, methods for using foreign exchange derivatives are explored in their use for hedging exchange rate risk. Learning to read foreign exchange quotes and understanding the functioning of global markets is an integral part of the course material. Each student is assigned a foreign country to study throughout the semester with the comprehensive project report. A prior investments course is recommended but not required.

FINANCE 6590 Seminar In Finance: 3 semester hours

Prerequisites: FINANCE 6500 This course incorporates a wide range of advanced topics in finance including, but not limited to, an evaluation of various financial assets as investment opportunities, trends in capital markets, derivatives and management of financial and non-financial firms.

FINANCE 6591 Finance Internship: 1-3 semester hours

Prerequisites: Students must have completed and/or be enrolled in at least 6 credit hours of finance electives and have consent of supervising faculty member and Area Coordinator Students work in the field of finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining sopecialized work experience are the primary goals. The student's program will be monitored by a finance faculty member with the student providing a formal written report at the end of the project.

Information Systems Courses

INFSYS 1012 Learning to Program Using Virtual Words: 3 semester hours

Introduces modern programming principles without requiring the knowledge of a traditional programming language. Instead, this course utilizes a novel graphical approach that enables the student to create, populate, and manipulate virtual 3-dimensional worlds which resemble video games. The development of these worlds allows students to gain direct experience and skills in using computers to solve problems. Students will create worlds of varying complexity.

INFSYS 1800 Computers And Information Systems: 3 semester hours

This course covers the basic concepts of networked computers including the basics of file management on local and remote computers, electronic mail, Internet browsers, and web page development. Students are also exposed to applications used in business for solving problems, communicating, and making informed decisions, including word processors, presentation software, and electronic spreadsheets. Students will also develop business applications using a popular programming language or database management tool. Credit cannot be granted for both CMP SCI 1010 and BUS AD 1800.

INFSYS 2800 Information Systems Concepts And Applications: 3 semester hours

Prerequisites: INFSYS 1800 or satisfactory performance on proficiency exam. Course covers concepts of information systems as they relate to business functions, including web page design and e-commerce, telecommunications, systems analysis and design, ethics of information system design and use, information security, foundations of database systems and integrated business information systems. Students will also gain valuable strategies for career development, contact management, and networking.

INFSYS 3806 Managerial Applications Of Object-Oriented Programming I: 3 semester hours

Prerequisites: INFSYS 1800 or CMP SCI 1250, and a 2.0 overall GPA. The course provides a study of the UNIX operating system and the C++ programming language as they pertain to managerial applications. In addition, the course will introduce the use of object-oriented programming methodologies.

INFSYS 3807 Legacy Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. Structured COBOL programming techniques for business applications are presented. Included are report generation, control breaks, output editing, debugging, tables, sort concepts, job control language, utilities, partitioned data sets, and updating of files.

INFSYS 3810 Information Systems Analysis: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806 or permission of instructor. Aspects and methods for managing the computer and information resources of organizations. Topics include: project management, aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of systems, facility management, purchase decisions, software acquisition, software metrics, security issues, and economic evaluation, as they relate to information resources. Special cases of systems, such as Enterprise Resource Planning (EPR) systems, Supply Chain Systems, and BPO will be discussed.

INFSYS 3815 Object Oriented Applications In Business: 3 semester

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. Object Oriented programming techniques for business applications are presented. The topics are implemented in a C++ environment.

INFSYS 3816 Managerial Application Of Object-Oriented Programming II: 3 semester hours

Prerequisites: INFSYS 3806 and a minimum overall GPA of 2.0. This course expands object-oriented skills taught in INFSYS 3806. The emphasis in this course is on object-oriented development tools and development in a client-server environment. The data management tools will include the use of SQL to access serverbased databases.

INFSYS 3841 Enterprise Information Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. Aspects and methods for managing the computer and information resources of organizations. Topics include: aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of MIS to senior management, facility management, purchase decisions, software acquisition, software metrics, project management, security issues, and economic evaluation, as they relate to information resources.

INFSYS 3842 Management Of Telecommunications: 3 semester hours

Prerequisites: INFSYS 1800 and a 2.0 overall gpa. The technical and managerial aspects of telecommunications as they apply to the business environment are discussed. Issues include: communications components and services, local area network architecture, managerial implimentations, organizational issues, and cost/benefits analyses.

INFSYS 3843 Decision Support Systems for Business Intelligence: 3 semester hours

Prerequisites: LOG OM 3300 and a minimum campus GPA of 2.0 Applications of intelligent decision support systems to support business intelligence are explored. DSS component design in response to decision making and business intelligence needs are discussed.

INFSYS 3844 Developing Business Applications In NET: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. This Course will enable students to design, implement, and debug object-oriented and data driven business applications in Visual Basic.NET. Students will learn application design choices, object-oriented design principles, event-driven programming, user interface programming using Windows Forms and user interface controls, data binding and database access using ADO.NET, exception handling, debugging and effective ways of working with Visual Studio.NET.

INFSYS 3845 Database Management Systems: 3 semester hours

Prerequisites: INFSYS 2800 and a minimum campus GPA of 2.0. This course provides an introduction to the design and use of databases in meeting business information needs. Topics include database planning, conceptual design, and data administration. The concepts are studied with projects involving the use of a current database management system.

INFSYS 3846 E-Commerce: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. This course provides an understanding of strategies, managerial issues, and technologies pertaining to electronic commerce in organizations. Topics include: history, business models, the virtual value chain, electronic markets, impact on organizational strategy and industry structure, analysis of successful strategies, and other emerging issues (legal, ethical, regulatory) related to managing electronic commerce, and the technical infrastructure enabling electronic commerce.

INFSYS 3847 Web Design: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. This course focuses on web page planning, design, layout and construction. Topics covered include: setting up and maintaining a web site; understanding site structure, presentation, navigation and content management. HTML/XML, CSS, Dreamweaver, Fireworks, Flash, Photoshop, data access, scripting languages, and various other technologies and tools will be discussed.

INFSYS 3848 Security And Information Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and BUS AD 2800. This course addresses the challenge of assuring security in information systems - networked, embedded, and stand alone. Topics include: security policies, models, tools, and techniques for enforcement. The course also examines flawed security policies, and the consequences of penetration and disruption of information systems.

INFSYS 3890 Internship In Management Information Systems: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of management information systems electives at the 3000level or above and have consent of supervising instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of management information systems where they apply the knowledge and skills learned in the classroom. Professional development obtaining specialized work experience are primary goals. A management information systems faculty member will monitor the student's program with the student providing a formal written report at the end of the project. INFSYS 3890 may not be counted toward the minimum credit hours of management information systems electives required for a Management Information Systems degree.

INFSYS 3895 Special Administrative Problems - Management Information Systems: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

INFSYS 3898 Seminar in Information Systems Management: 1-3 semester hours

Prerequisites: To be determined each time course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of information systems. May be repeated for credit with different topics.

INFSYS 3899 Independent Study In Information Systems: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in information systems under the supervision of a full-time information systems faculty member.

INFSYS 4850 Information Systems Design: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; INFSYS 3810, INFSYS 3816 and INFSYS 3845. System design, implementation, and methods of systems installation and operation are presented. A system development project is required.

INFSYS 5800 Management Information Systems: 3 semester hours

Same as P P ADM 6800. This course provides an overview of the established and contemporary issues related to information systems within organizations. Topics include the practices and tools associated with topics such as the management of IS-based investment projects, the design and implementation of IS, the alignment of IS strategy with organizational strategy, information security and privacy, and gaining a competitive advantage through IS.

INFSYS 5890 Internship In Information Systems: 3-6 semester hours

Prerequisites: INFSYS 6840 or permission of instructor. The internship will be a supervised field experience in a US-based business/organization or a US-based international business/organization. Students will be employed off-campus for a 10-16 week period on projects directed by host organization supervisors in consultation with a UM-St. Louis faculty member. The project requires students to apply IS concepts to a real-world problem. The project does not duplicate, but builds upon material in the IS curriculum. A professional written report will be required.

INFSYS 5899 Individual Research in Information Systems: 1-3 semester hours

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Information Systems under the guidance of a specific professor.

INFSYS 6805 Applications Of Programming For Business Solutions: 3 semester hours

Prerequisite: ECON 4105. This course provides a study of businessoriented programming A programming language will be introduced and discussed in detail. Emphasis will be on program definition and the use of such programs in business-oriented applications.

INFSYS 6806 Managerial Applications Of Object-Oriented Technologies: 3 semester hours

Prerequisite: INFSYS 6805. This course deals with business-oriented programming in an object oriented environment. The emphasis will be on program definition, and tools and development in a client-server environment. The course will involve the study of objectoriented language in addition to object-oriented methodologies for systems development.

INFSYS 6808 Internet Programming For Business: 3 semester hours

Prerequisite: INFSYS 6805 Focus on web-based applications development for business. It will begin with the fundamentals of web-based computing, including web client and server interaction, the MIME standard, server and client data frame headers, the CGI standard, and error conditions as they pertain to business applications. In addition, JAVA will be introduced to build web-based GUI-interfaces and backend servers. Finally, business applications issues such as firewalls, proxy servers and data encryption using secure servers will be included.

INFSYS 6833 Decision Support Systems for Business Intelligence: 3 semester hours

Prerequisite: LOG OM 5300 Applications of intelligent decision support systems to support business intelligence are explored. DSS component design in response to decision making and business intelligence needs are discussed.

INFSYS 6835 IT-Enabled Business: 3 semester hours

Prerequisite: INFSYS 5800 IT-Enabled Business focuses on business models, processes, and activities made possible by the internet. The course includes theoretic aspects of e-commerce:consumer relationship management, supply chain management, inventory management, business strategy, auctions, and portals. Issues associated with electronic commerce such as security, privacy, content selection and rating, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities are explored. Particular attention is paid to IT-enabled entrepreneurship and business creation, and IT use in small to medium sized enterprises. Case studeis drawn from actual business applications will be used to reinforce theory.

INFSYS 6836 Telecommunications: Design And Management: 3 semester hours

Prerequisite: INFSYS 5800 (may be taken concurrently) The topic of telecommunications is addressed from both a technical and managerial viewpoint. In particular, the course will address issues such as communications components and services, local area network architecture, managerial implementations, organizational issues, and cost/benefit analyses.

INFSYS 6837 Information Systems Architecture: 3 semester hours

Prerequisite: INFSYS 6836 This course explores a wide range of topics necessary for understanding & managing distributed computing technology. A wide range of infrastructure and "middleware" architectural components will be explored. Finally, the course will provide a framework for understanding the capabilities and shortcomings of various distributed computing architectures, technical standards and their implications for interoperability of components.

INFSYS 6838 Business Processes: Design, Management & Integration: 3 semester hours

Prerequisite: INFSYS 5800. Major business processes are identified and analyzed. Issues related to characteristics, goals, benefits and costs of enterprise-wide design, and the role of information technology during the design process are discussed. Workflow automation, process modeling, analysis, automation, and redesign techniques are discussed, including the following: process inputs & entrance criteria, process outputs & exit criteria, feedback mechanisms & process correction, alternate theoretical frames for business process design, and impacts on business process design from socio-cultural forces. Case studies are used to illustrate the concepts.

INFSYS 6840 Information Systems Analysis: 3 semester hours

Prerequisite: INFSYS 6805 The theory and practice of structured analysis are presented. Topics may include: traditional vs. structured analysis methods, requirements analysis, user/analyst interaction, investigation of existing systems, human/machine interfaces, CASE tools, and workbenches.

INFSYS 6845 Database Management Systems: 3 semester hours

Prerequisites: INFSYS 5800 The course introduces the concepts of Database Management Systems for business applications. Issues in database architecture, design, administration, and implementation are covered. Projects are assigned on a mainframe DBMS and a microcomputer based DBMS to illustrate the concepts & applications.

INFSYS 6846 Management Of Global Sourcing: 3 semester hours

Same as INTL BUS 6846. Prerequisite: INFSYS 5800. Largely fostered by the spead of the Internet, global software development standards, global software packages, and fewer trade restrictions, organizations now regularly source software development, software maintenance, systems upgrades, platform transitions, help desks, and other IS-related work globally This course covers topics to help organizations manage global sourcing of IS work, including sourcing strategies, sourcing models (captive, joint venture, outsourcing), role of program management offices, supplier selection, engagement models, and special practices required to manage globally dispersed teams. Risk mitigation practices associated with cultural, legal, political, infrastructure, logistical, and human resource issues are also addressed.

INFSYS 6847 Financial And Project Management: 3 semester hours

Prerequisite: INFSYS 5800 Effective project management ensures that a project is completed on time, within budget, and has high quality. The purpose of this class is to examine the task of project resource management with a focus on IT and services. It will cover conventional aspects of project management, such as the project evaluation, planning, roles, responsibilities, scheduling, and tracking. In addition, this class will examine risk management, change management, critical chain management, build vs. buy analysis, package vs. custom solutions, vendor qualification and selection, and the roles of certification in the process. The class will also cover the management of programs or a portfolio of IT projects.

INFSYS 6848 Knowledge Management And Business Intelligence: 3 semester hours

Prerequisite: INFSYS 5800 Knowledge management (KM) is the process of creating, and drawing value from, an organization's intellectual assets. It deals with how to best leverage the organization's knowledge internally as well as externally. The emphasis on knowledge management within business organizations has risen dramatically in the last few years, to some extent as a result of the rapid progress in information technology capabilities. The course covers the following topics: KM tools, technologies, and systems, including knowledge repositories, knowledge portals, and expert seeker systems, creating and sustaining a knowledgesharing culture, managing and measuring intellectual capital, managing knowledge in networked organizations, including interorganizational alliances and supply chains, aligning knowledge with business strategy, risks of knowledge loss and knowledge leakage, business intelligence, and social aspects of knowledge management.

INFSYS 6849 Data Warehouse Design and Implementation: 3 semester hours

Prerequisites: INFSYS 6845 or consent of instructor. Course will cover different design configurations for structuring and organizing data in a data warehouse. Formal methodologies for the development of data warehouses will also be discussed and implemented.

INFSYS 6850 Information Systems Design: 3 semester hours

Prerequisites: INFSYS 6840 and INFSYS 6845 This course builds upon the analysis techniques presented in INFSYS 6840. It requires the student, usually working in a group to design and implement a system in a real-world environment. Advanced design concepts are presented to support the students in their project work.

INFSYS 6851 Practicum in Business Intelligence: 3 semester hours
Prerequisites: INFSYS 6833, INFSYS 6849, and LOG OM 6345. This
course will provide the context for students to integrate, synthesize and
apply their Business Intelligence skills in an actual business organization.
Project work will be jointly supervised and coordinated by a faculty
member and a supervisor in the relevant business organization.

INFSYS 6881 Management Of Transnational Information Systems: 3 semester hours

Same as INTL BUS 6881. Prerequisites: INFSYS 5800, INFSYS 6825 (may be taken concurrently) The course presents concepts of managing global information technology. Issues covered include: global information technology, systems development, electronic data interchange, crossborder data flows, and national and international information structures. Further topics may include information technology enabled economic development, global outsourcing of information systems services, and social, organizational and ethical implications.

INFSYS 6891 Seminar In Management Information Systems: 3 semester hours

Prerequisites: INFSYS 5800 Topics of current interest in management information systems. Topics may include international information systems, electronic commerce, decision support systems, information systems strategy, telecommunications, and information systems management.

INFSYS 7890 IS Research Seminar: 3 semester hours

Prerequisites: INFSYS 5800; Admittance into the Ph.D. Program Analysis of the research problems, approaches, and findings of Management Information Systems Research. May be repeated for credit when the subject matter is different.

INFSYS 7891 Quantitative Research Methods In IS: 3 semester hours
Prerequisites: INFSYS 5800; Admittance into the Ph.D. Program Analysis
of research design and validity of quantitative methods applied to the study
of Management Information Systems, including laboratory experiments,
sample surveys, and field experiements.

INFSYS 7892 Doctoral Seminar In Current Information Systems Topics: 3 semester hours

Prerequisites: INFSYS 5800. Admittance into the Ph.D. Program Theoretical and empirical analysis of topics of long-term importance to the IS field such as systems analysis and design, systems development and implementation, and database management. A historical perspective of the technical and behavioral issues associated to IS artifacts is provided such that contemporary issues and trends can be appreciated.

INFSYS 7893 Special Topics In Information Systems: 3 semester hours

Prerequisite: Consent of Instructor and admittance into the Ph.D. Program In-depth analysis of special topics in IS research. May be repeated for credit when the subject matter is different.

INFSYS 7894 Theoretical Foundations Of Information Systems Research: 3 semester hours

Prerequisites: INFSYS 5800, Admittance to the Ph.D. Program The theoretical foundations of information systems are largely built upon the theories from other disciplines, including the physical sciences, computer science, sociology, psychology, and mathematics. In this course, we survey a variety of theoretical foundations from other disciplines by reading the original works, critical responses to these theories, and representative applications of these theories in the IS domain.

International Business Courses

INTL BUS 3280 The Law Of International Business Transactions: 3 semester hours

Prerequisites: BUS AD 2900 or consent of the instructor. A study of the role and function of International Law and national laws in the regulation of international business transactions. The impact of various legal regimes on importexport transactions, foreign investments, and the operations of multinational enterprises will be included. The role of national governments, supra-national governmental organizations, and non-governmental organizations in forming and administering the international legal environment will be studied.

INTL BUS 3281 Business In China: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; and junior standing This course introduces students to the practices of doing business in China. Students will be introduced to the Chinese economic and business environment. Issues related to trade and foreign direct investment in China will be discussed. The course adopts an innovative approach, utilizing lectures, case analysis, projects, and student presentations.

INTL BUS 3282 Managing The Global Workforce: 3 semester hours
Prerequisite: A minimum of 2.0 campus GPA. In addition, MGMT 3600 and
at least one of the following: MGMT 3611 or MGMT 3621 or enrollment
in Honors College or consent of instructor. A study of the international
dimensions of organizational behavior and human resource management.
The course provides an overview of the tools and skills that are necessary
to understand and manage people in global organizations. Topics include
motivation, leadership, communication, hiring, training, and compensation.

INTL BUS 3283 International Business And Society: 3 semester hours Encompasses the readings, lectures, company and government agency visits, and cultural visits that comprise annual Country Study Tours, (e.g., Austria, Japan, Thailand, etc.). The program includes 45 contact hours

Austria, Japan, Thailand, etc.). The program includes 45 contact hours or more of classroom lectures covering aspects of the chosen country's business and society, in-depth pre-departure cross-cultural orientation and training supplemented by briefings on the country's economy and on U.S. market penetration by the Commercial Service, U.S. Embassy; a briefing by the in-country State of Missouri representative; briefings by host country agencies; company visits and factory tours; and tours of cultural sites. Student evaluation will be based on active participation and on a research paper based on readings, lectures, interviews and field observations.

INTL BUS 3284 The Japanese Management System: 3 semester hours

Prerequisites: MGMT 3600 This course provides an introduction to various aspects of the contemporary Japanese business system. The emphasis is on interpretation of issues from a managerial perspective. Topics include an overview of Japan's economic growth, government policies, industrial and financial structure of Japanese business, labor-management relations, internal management practices, international competitive strategies, managing U.S. subsidiaries in Japan, penetrating the Japanese market, Japanese investment in the U.S.A., and current issues in U.S.Japan economic relations.

INTL BUS 3286 International Business Ethics: 3 semester hours
Same as PHIL 3286. This course will deal with moral issues that are
raised by the increasing globalization of business. Apart from the
general issue of whether this globalization is itself a good thing, we will
discuss such issues as child labor, working conditions, safety standards,
environmental policies, bribery and other "corrupt" practices, respect for
intellectual property, etc. Frequent short papers will be assigned.

INTL BUS 3289 Practicum In International Business: 3 semester hours

Prerequisites: At least one international business course, 2.0 campus GPA and completion of an approval form. Students will apply both their language skills and knowledge of international business by working for a three month period in an organization located outside the student's country of origin. This course requires students to prepare a research report summarizing the global experience and how it relates to the international business program.

INTL BUS 3290 Internship In International Business: 3-6 semester hours

Prerequisites: ECON 1001 and ECON 1002, ACCTNG 2400 and ACCTNG 2410, an additional 12 hours in Business Administration, concurrent enrollment in a UM overseas program; also a minimum overall gpa of 2.0. The internship will be a supervised field experience in a business/ international organization at a foreign site. Students will work for 10 weeks on projects directed by host-organization supervisors in consultation with a UM-St. Louis faculty member. Prior to the field experience students will receive training that includes familiarization with the language and practices of the country's business, the background of the host firm, and international information sources. The student will complete a written report of his/her project. Course may not be repeated for more than 6 hours credit.

INTL BUS 3299 Independent Study In International Business: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator of the specific discipline. Special individual study in international business under the supervision of an approved faculty member.

INTL BUS 3580 International Corporate Finance: 3 semester hours
Same as FINANCE 3580.Prerequisites: FINANCE 3500 and a 2.0 campus
GPA. This course explores corporate finance in the context of a global
environment. Financial managers for an international firm must deal with
all the normal problems faced by domestic corporations plus additional
foreign exchange and political risks. Class discussions will focus on
applying financial techniques to decision making in foreign operations.
Students are required to work in a group to undertake a project related to
international finance.

INTL BUS 3582 International Investments: 3 semester hours

Same as FINANCE 3582.Prerequisites: FINANCE 3500. This course explores the concepts of investing and hedging risk management, portfolio diversification, currency risk, asset pricing, and alternative portfolio strategies. Techniques for using derivatives are discussed in the context of hedging exchange rate risk. Reading foreign exchange quotes and understanding the functioning of global markets is central to the course. A prior course in investments is recommended but not required.

INTL BUS 3680 International Management: 3 semester hours
Same as MGMT 3680. Prerequisites: A minimum 2.0 campus GPA. In addition, ECON 1002 and MGMT 3600; or consent of the instructor.
A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

INTL BUS 3780 International Marketing: 3 semester hours

Same as MKTG 3780. Prerequisites: MKTG 3700 and a 2.0 overall gpa. Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a country's cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, economic and social development, the spread of multinational corporations, business ethics, and current economic and marketing issues are examined.

INTL BUS 3787 Marketing in the European Union: 3 semester hours Same as MKTG 3787. Prerequisites: MKTG 3780 or instructor's permission. The European Union (EU) is both a major customer and major competitor of the United States. The inclusion of many of the Eastern European countries into the EU has added another challenge to our ability to trade in this area. The better we understand the people, institutions and policies of the EU, the better positioned we will be to conduct business effectively. This course will emphasize understanding the institutional structure that unites the European Union as well as the cultural and political diversity of its members, and provide insights into how business activity functions in the European Environment.

INTL BUS 4280 International Business Experience: 0 semester hours Students with an International Business emphasis must complete one of the following international experience requirements: (a) study abroad for three or more credit hours, (b) complete a minumum of one year international experience (e.g., Peace Corps, volunteer work, missionary work, an international posting by an organization) within 5 years of entering the program, or (c) complete an international internship approved by the International Business Institute. May be taken on a stisfactory/ unsatisfactory basis only.

INTL BUS 4281 Entrepreneurship in the Global Environment: 3 semester hours

Prerequisites: ECON 1002; ACCTNG 2410; MKTG 3700. This course explores changes in the planet's physical environment and ways of reversing, retarding or coping with those changes. Students will be required to develop proposals for new business ventures that have as a goal preservation or restoration of the natural environment.

INTL BUS 4289 International Stretegic Management: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA and MGMT 3682, MKTG 3780 and FINANCE 3580 or consent of instructor. A study of the international dimensions of strategic management. Provides an introduction to the key concepts and tools necessary for international competitive analysis. Topics include the international dimensions of strategy formulation and implementation, diversification, strategic alliances, and divestment.

INTL BUS 4290 International Business Case Competition Course: 2 semester hours

Prerequisites: Able to participate in Fall and Spring semester (2-part course for total of three credit hous); Cumulative UMSL GPA of 3.0 or above; and completed one of the required core courses for an IB major. This course will prepare the students to research, prepare and present a proposed solution in a team format to a multi-disciplinary international business problem. During the Fall Semester, the students will compete in three different international business problems with the team composition being varied for each exercise. Each competition will be graded and based on team performance the instructor will select the best performing team composition. The best performing team composition will be the UMSL entry in the Spring semester UMSL International Business Case Competition. Students not participating as the UMSL entry in the UMSL International Business Case Competition will be the organizers and hosts for the UMSL International Business Case Competition. Organizing and hosting the UMSL International Business Case Competition will require the students to plan, organize, execute and host a major international business event. An important part of this will be the requirement for the class to create a mission statement, a business plan, marketing campaign and metrics to monitor success.

INTL BUS 4381 International Logistics And Operations Management: 3 semester hours

Same as LOG OM 4381. Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. A study of business logistics and supply chain strategies involving shipments across national boundaries. Topics include the effects of international agreements and regional trading blocks on supply chain strategies; the design of global logistics networks; managerial processes and systems for international production and distribution, and risk management for international logistics.

INTL BUS 5289 International Business Strategies: 3 semester hours
Prerequisites: BUS AD 5000 and ACCTNG 5400. This course focuses

on those managerial issues which follow from the definition and implementation of corporate strategy for worldwide operations, as distinguished from purely domestic firms or those only marginally involved in international activities. It aims to develop an appreciation for the unique competitive, sociocultural and political environments in which international business takes place and the skills required to deal with these changes.

INTL BUS 5290 Internship In International Business: 3 semester hours

Prerequisites: Consent of IMBA Director Students will apply both their language skills and knowledge of international business by working in an organization located outside the student's country of origin. This course requires students to submit regular evaluations and prepare a research report summarizing their global experience and how it relates to the international business program.

INTL BUS 5381 International Logistics And Operations Management: 3 semester hours

Prerequisites: LOG OM 5320 A study of international logistics and operations management strategy, planning and operations. Topics may include multinational logistics and supply chain strategies, global network design and sourcing, international transportation, distribution and operations, import-export, risk management, etc. (SAME AS INFSYS 5381).

INTL BUS 5480 International Accounting: 3 semester hours

Same as: ACCTNG 5480. Prerequisites: ACCTNG 3402. Accounting practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting standards, and managerial accounting practices related to multinational operations.

INTL BUS 5780 Seminar In International Marketing: 3 semester hours

Same as MKTG 5780. Prerequisite: MKTG 5700. An advanced seminar on topics in international or global marketing. Possible topics include the globalization of trade, export marketing, international market opportunity analysis, and negotiation for international marketers. Students who take one version of this course (e.g., globalization of trade) can take a second version of the course (e.g., negotiation for international marketers) with prior permission.

INTL BUS 6580 International Financial Management: 3 semester hours

Same as FINANCE 6580. Prerequisite: FINANCE 6500. The objective of this course is to introduce students to financial issues for multinational firms. Besides covering basic tools and techniques, the class stresses the role of the financial manager in analysis and decision-making. Topics include the impact of international accounting and tax issues, capital budgeting in a foreign environment, transfer pricing, and global funding. Conceptual skills for lifelong learning experiences are emphasized. This course emplys a lecture and case format with group discussions.

INTL BUS 6581 Seminar In International Investments: 3 semester hours

Same as FINANCE 6581. Prerequisite: FINANCE 6500. This course covers topics related to the determination of exchange rates, international parity relations and portfolio diversification. In addition, methods for using foreign exchange derivatives are explored in their use for hedging exchange rate risk. Learning to read foreign exchange quotes and understanding the functioning of global markets is an integral part of the course material. Each student is assigned a foreign country to study throughout the semester with the comprehensive project report. A prior investments course is recommended but not required.

INTL BUS 6846 Management Of Global Sourcing: 3 semester hours
Same as INFSYS 6846. Prerequisite: INFSYS 5800. Largely fostered
by the spead of the Internet, global software development standards,
global software packages, and fewer trade restrictions, organizations
now regularly source software development, software maintenance,
systems upgrades, platform transitions, help desks, and other IS-related
work globally This course covers topics to help organizations manage
global sourcing of IS work, including sourcing strategies, sourcing models
(captive, joint venture, outsourcing), role of program management offices,
supplier selection, engagement models, and special practices required to
manage globally dispersed teams. Risk mitigation practices associated
with cultural, legal, political, infrastructure, logistical, and human resource
issues are also addressed.

INTL BUS 6881 Management Of Transnational Information Systems: 3 semester hours

Same as INFSYS 6881. Prerequisites: INFSYS 5800, INFSYS 6825 (may be taken concurrently). The course presents concepts of managing global information technology. Issues covered include: global information technology, systems development, electronic data interchange, cross-border data flows, and national and international information structures. Further topics may include information technology enabled economic development, global outsourcing of information systems services, and social, organizational and ethical implications.

INTL BUS 7000 intl bus test: 1 semester hour

Logistics and Operations Management Courses

LOG OM 3300 Business Statistics: 3 semester hours

Prerequisites: MATH 1100, MATH 1105, INFSYS 1800 and a 2.0 campus GPA. Construction and use of statistical models for business management. Students will learn techniques used for relational analysis and business forecasting and how to apply them in a business context. Tools include CHI-Square tests of statistical independence; analysis of variance; simple linear regression and correlation; multiple linear regression; and extrapolative techniques such as moving averages and exponential smoothing. Emphasis is placed on problem definition, construction of statistical models, analysis of data, and interpretation of results. Computers are used for extensive analyses of case data.

LOG OM 3320 Introduction To Operations Management: 3 semester hours

Prerequisites: A 2.0 campus GPA and either (ECON 1001, ACCTNG 2410 and LOG OM 3300) or (MATH 2000 and MATH 1320). An examination of the concepts, processes, and institutions which are fundamental to an understanding of manufacturing and service operations within organizations. Emphasis is on the management and organization of operations and upon the application of quantitative methods to the solution of strategic, tactical and operational problems.

LOG OM 3390 Internship In Logistics And Operations Management: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of LOM electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of Logistics and Operations Management (LOM) where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. An LOM faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3390 may not be counted toward the minimum credit hours for the LOM emphasis.

LOG OM 3395 Special Administrative Problems - Management Science: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

LOG OM 3398 Seminar in Logistics and Operations Management: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of logistics and operations management. May be repeated for credit with different topics.

LOG OM 3399 Independent Study In Logistics And Operations Management: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in logistics and operations management under the supervision of a full-time logistics and operations management faculty member.

LOG OM 4312 Business Forcasting: 3 semester hours

Prerequisites: Minimum campus GPA of 2.0 or graduate standing; also either LOG OM 3320 or (MATH 3000 and MATH 1320) Further study of statistical tools for forecasting in a decision-making context. Topics include explanatory models (multiple regression), classical time series decomposition, and extrapolative techniques (exponential smoothing and Box-Jenkins procedures). In addition, methods for considering problems of intervention effects, seasonality, and collinearity will be discussed. Students will perform extensive analyses of time series data using computer packages.

LOG OM 4321 Production and Operations Management: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. Application of the tools and techniques of statistical decision theory and operations research to production and operating problems. Emphasis is on the use of mathematical modeling and simulation techniques to analyze complex and ill-structured problems in large-scale systems.

LOG OM 4322 Lean Production In Manufacturing And Service Operations: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320 Study of Lean Production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement techniques, quick set-ups, total productive maintenance, kanban scheduling, cellular production, team organization of workers, supplier relations, quality management, and the environmental aspects of production.

LOG OM 4324 Service Operations Management: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. An examination of methods for designing and operating service delivery systems, such as in the health care, financial, transportation, hospitality, and governmental services industries. Topics include process and facility design, facility layout and location, queuing, demand forecasting and management service quality, staffing, and personnel scheduling.

LOG OM 4326 Quality Assurance In Business: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. A study of statistical quality control concepts and procedures applicable to management systems, administrative activities, service industries, and nonprofit organizations. Some successful quality assurance programs will be examined.

LOG OM 4330 Business Logistics Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. Analysis of business logistics systems, their design, and operation. Topics include: network design, facility location, transportation, vehicle routing, storage and handling capacity planning, inventory management, and customer service.

LOG OM 4350 Management Science Methods: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320 or MATH 3000 and MATH 1320. Applications of the theories and techniques of operations research to problems of business, government, and industry with emphasis on the construction and utilization of quantitative decision models.

LOG OM 4354 Management Science Methods II: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 4350. Topics of special interest including mathematical programming, stochastic decision-making, digital simulation, game theory, and other selected techniques. (Formerly Mathematical programming).

LOG OM 4381 International Logistics And Operations Management: 3 semester hours

Same as INTL BUS 4381. Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. A study of business logistics and supply chain strategies involving shipments across national boundaries. Topics include the effects of international agreements and regional trading blocks on supply chain strategies; the design of global logistics networks; managerial processes and systems for international production and distribution, and risk management for international logistics.

LOG OM 4398 Seminar in Logistics and Operations Management: 1-3 semester hours

Prerequisites: LOG OM 3320 or permission of the instructor and a minimum 2.0 campus GPA. For some topics additional prerequisites may be required. An intensive study of a specific aspect, problem or technique in the areas of logistics, operations management, or supply chain management. Different topics may be offered under this course number, so the course (with different topics) can be repeated for credit.

LOG OM 5300 Statistical Analysis For Management Decisions: 3 semester hours

Prerequisites: INFSYS 5800 (may be taken concurrently) and ECON 4105 with a minimum grade of "C" The role of statistical evidence in the formation of inference and in the selection of strategies in solving business problems is developed. Probability and probability distributions are studied as a basis of statistical inference. An introduction to multivariate analysis is provided, which includes analysis of variance and regression methods.

LOG OM 5312 Advanced Statistical Methods For Management Decisions: 3 semester hours

Prerequisites: LOG OM 5300 The application of statistical methods to managerial problems, forecasting and business research. Topics include the blending of multiple regression and analysis of variance into a general linear model, logistic models, techniques for projecting seasonal time series, and forecasting techniques (ARIMA models) which deal with serially correlated data. Through class presentations, assigned exercises and a major project, students gain experience in constructing explanatory and predictive models for problems in marketing, finance, etc. Students use commercial software (e.g. the Statistical Analysis System) for analyzing data, constructing models and producing reports.

LOG OM 5320 Production And Operations Management: 3 semester hours

Prerequisites: LOG OM 5300 This course discusses issues related to the creation and delivery of goods and services. Topics include the design of production processes, the layout and location of facilities, forcasting, scheduling, inventory control, queuing, materials planning, and quality control. Analytical techniques such as linear programming are used in studying these problems.

LOG OM 5322 Lean Production: 3 semester hours

Prerequisites: LOG OM 5320. Study of Lean Production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement, set-up reduction, total productive maintenance, kanban scheduling, cellular production, work teams, supplier relations, quality management, and the environmental aspects of production. Cases and a course project will be used to integrate and apply the course material.

LOG OM 5324 Service Operations Management: 3 semester hours

Prerequisite: LOG OM 5320. An examination of methods for designing and operating service delivery systems, such as in the health care, financial, transportation, hospitality, and governmental services industries. Topics include process and facility design, facility layout and location, queuing, demand forecasting and management, service quality, staffing, and personnel scheduling.

LOG OM 5326 Quality Management: 3 semester hours

Prerequisites: LOG OM 5300 or MATH 4200 or permission of instructor An applied course on total quality management. quality improvement approaches are presented and the managerial implications and responsibilities in implementing these approaches are discussed. Topical coverage includes the construction and interpretation of control charts, graphical methods, quality function deployment, robust experiments for product design and improvement, mistake-proofing (poke yoke), the Deming approach, Baldridge award criteria, quality cost audits, worker empowerment and reward systems. Cases involving both business pocesses and physical processes are used to illustrate successful quality improvement efforts.

LOG OM 5334 Internship In Logistics And Supply Chain Management: 1 semester hour

Prerequisite: Consent of Instructor Students receive practical experience in the area of logistics or supply chain management. The internship is supervised by a professional in the host organization in consultation with a faculty member.

LOG OM 5340 Transportation Economics for Business Managers: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5000 or permission of the instructor. This course makes use of a range of economic concepts to examine the nature of markets in which transport services are provided. This course is designed for future transportation professional who wish to explore the fundamentals of economics in their field. Basic concepts covered include the theory of transportation demand, transportation costs and investment planning, and current topics in transportation economics such as regulation-deregulation and social cost pricing.

LOG OM 5354 Simulation For Managerial Decision Making: 3 semester hours

Prerequisites: LOG OM 5320. Introduction to simulation as a managerial decision-making aid. Application of simulation to a number of management science-oriented problems. This course introduces and requires use of a simulation language.

LOG OM 5381 International Logistics And Operations Management: 3 semester hours

Same as INTL BUS 5381. Prerequisites: LOG OM 5320. A study of international logistics and operations management strategy, planning and operations. Topics may include multinational logistics and supply chain strategies, global network design and sourcing, international transportation, distribution and operations, import-export, risk management, etc.

LOG OM 5398 Seminar in Logistics and Operations Management: 1-3 semester hours

LOM 5320 or permission of the instructor. For some topics additional prerequisites may be required. An intensive study of a specific aspect, problem, or technique in the areas of logistics, operations management, or supply chain management. Different topics may be offered under this course number, so the course (with different topics) can be repeated for credit.

LOG OM 5399 Individual Research in Logistics and Operations Management: 1-3 semester hours

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Logistics and Operations Management under the guidance of a specific professor.

LOG OM 6330 Business Logistics Systems: 3 semester hours

Prerequisites: LOG OM 5320 (may be taken concurrently). Analysis of business logistics systems and their role in supply chain management. covers both design and operation of logistics systems and their components. Topics may include network design, facility location, transportation, vehicle routing, inventory management, customer service, reverse logistics and logistics information systems.

LOG OM 6331 Logistics And Supply Chain Operational Modeling: 3 semester hours

Prerequisites: LOG OM 5320 and LOG OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the operational management of logistics and supply chains. This course covers the economic tradeoffs involved in such decisions, data requirements, operating parameters, and application of software packages to problems such as vehicle routing and scheduling, freight shipments consolidation, cross-docking, and other operational and tactical strategies. This "hands on" course is designed to prepare students for higher-level supply chain analyses and consulting work.

LOG OM 6332 Logistics And Supply Chain Strategic Modeling: 3 semester hours

Prerequisites:LOG OM 5320 and LOG OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the planning and strategic management of logistics networks and supply chains. The course identifies and explores the economic and customer service tradeoffs involved in such networks. Issues such as location of facilities assignment of production and distribution missions to facilities, identification of sourcing relationships amongst facilities, and identification of cost and customer service consequences of alternative supply chain designs are addressed by the application of commercial software packages to support decision making. This "hands on" course is designed to prepare students for high-level supply chain analyses and consulting work.

LOG OM 6345 Business Analytics and Data Mining: 3 semester hours Prerequisites: LOG OM 5300 and INFSYS 5800. This course concentrates on methods for converting data into business intelligence. It provides knowledge of the principles and techniques for business analytics and data mining. Topics include clustering, pattern recognition, visualization of relationships, predictive modeling, optimization techniques and simulation.

LOG OM 6347 LOM Project Management: 3 semester hours

Prerequisites: LOG OM 5320. This course addresses the concepts and processes of project management as applicable to Logistics and Operations Management. Students study organizational design, project specification, integrated project planning, risk management and project control; students will come to understand how globalization, environmental and sustainability issues, quality control (including industry standard initiatives such as the Continuing Integration Improvement Model and the International Standards Organization model), and cultural factors drive project management. NOTE: Credit may not be earned for both LOG OM 6347 and INFSYS 6847.

LOG OM 6350 Management Science Methods: 3 semester hours

Prerequisites: LOG OM 5320. This course provides a working knowledge of manaement science techniques. It emphasizes analytical approaches to solving business problems, construction of mathematical models, and manipulation of model variables for managerial decision-making. Topics include mathematical programming, including integer and network models, heuristics, and simulation models.

LOG OM 6395 Seminar In Logistics And Operations Management: 3 semester hours

Prerequisite: LOG OM 5320 Topics of current interest in logistics and operations management. Topics may include just-in-time and lean production, quality management, manufacturing and service systems, transportation and logistics, quanitative management tools, etc.

LOG OM 7381 International Supply Chain Management: 3 semester hours

Prerequisites: LOG OM 5320; Admittance into the Ph.D. Program A comprehensive examination of international logistics and supply chain management strategies, planning and operations from the firm's perspective. Topics may include multinational logistics and supply chain issues and management strategies, multinational sourcing and network design, transportation issues in international supply chains, multinational distribution and operations, legal and financial issues in import and export, risk identification and management in international supply chains, and the relationship of supply chain management to other activities of international firms.

LOG OM 7390 Research Seminar In LSCM: 3 semester hours

Prerequisites: LOG OM 6330; Admittance into the Ph.D. Program. Analysis of research approaches, and findings in Logistics and Supply Chain Management. May be repeated for credit when the subject matter is different.

LOG OM 7393 Special Topics In LSCM: 3 semester hours

Prerequisites: Consent of Instructor; Admittance into the Ph.D. Program In-depth analysis of special topics in Logistics and Supply Chain Management research. May be repeated for credit when the subject matter is different.

Management Courses

MGMT 3600 Management And Organizational Behavior: 3 semester hours

Same as SOC 3600. Prerequisites: Junior standing and a 2.0 overall GPA. This course involves the study of the behavior of individuals and groups in an organizational setting. Specific topics examined include: motivation, leadership, organizational design, and conflict resolution, as well as basic coverage of of management principles. In covering these topics, both "classic" and current perspectives are provided.

MGMT 3611 Advanced Management And Organizational Behavior: 3 semester hours

Prerequisites: MGMT 3600 and a 2.0 overall GPA. Building upon MGMT 3600, course provides a more detailed examination of motivation, leadership, group process, decision making, job design, and organizational development. In addition to providing more detail in terms of content, this course provides the student with considerable practical experience through the use of class exercises, case studies, and small group discussions.

MGMT 3612 Professional Skills Development: 3 semester hours

Prerequisite: A minimum 2.0 campus GPA and Junior Standing This course focuses on career management. Topics include job search, interviews, resumes and cover letters, presentation skills, business etiquette, entry strategies, and career alternatives.

MGMT 3621 Human Resource Management: 3 semester hours

Prerequisites: MATH 1105, MGMT 3600 and a 2.0 overall GPA. Indepth examination of selected human resource management issues from a contemporary manager's viewpoint. Topics examined include: employee selection, performance appraisal, training and development, compensation, legal issues, and labor relations.

MGMT 3622 Industrial And Labor Relations: 3 semester hours

Prerequisite: MGMT 3600 and a 2.0 overall GPA. Emphasis is on the dynamic relationship between management, employees, unions, and government as determinants in the efficient and effective use of human resourses. Current issues and case material are used to supplement text and lecture.

MGMT 3623 Industrial And Organizational Psychology: 3 semester hours

Same as PSYCH 3318. Prerequisite: PSYCH 2201 or MATH 1105, MGMT 3600. This course introduces the student to psychological research and theories pertaining to human behavior in the work setting. Topics covered include: selection, performance appraisal, training, leadership, motivation, job satisfaction, and organizational design.

MGMT 3624 Employee Training And Development: 3 semester hours

Prerequisites: A minimum overall gpa of 2.0. In addition, MGMT 3600 or permission of instructor. An intensive study of training in organizations, including needs analysis, learning theory, management development, and development of training objectives and programs. Projects and exercises are used to supplement the readings.

MGMT 3625 Leadership in Organization: 3 semester hours

Prerequisites: MGMT 3600 and a minimum 2.0 campus GPA. This course introduces classic and contemporary theories of leadership. The emphasis is on building a sound grasp of good practice and on developing the student's ability to apply such knowledge as he/she enters today's global workforce. The course covers key theories and models of effective leadership in organizations.

MGMT 3680 International Management: 3 semester hours

Same as INTL BUS 3680. Prerequisites: A minimum 2.0 campus GPA. In addition, ECON 1002 and MGMT 3600; or consent of the instructor. A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

MGMT 3685 Role Of The Global Corporation: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA and MGMT 3600 or permission of the instructor. The purpose of this course is to create awareness of controversial issues about international business. Students will gain a better understanding of resistance to and criticism of international business and will become better prepared for dealing with these issues and problems.

member.

MGMT 3690 Internship In Management: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Management electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of Management where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Management faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3690 may not be counted toward the minimum 12 credit hours of management electives required for a MOB emphasis.

MGMT 3695 Special Admin Problems - Management & Organization Behavior: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

MGMT 3698 Seminar in Management: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of management. May be repeated for credit with different topics.

MGMT 3699 Independent Study In Management: 1-3 semester hours Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in management under the supervision of a full-time management faculty

MGMT 4219 Strategic Management: 3 semester hours

Prerequisites: Senior standing and FINANCE 3500, MKTG 3700, MGMT 3600; a minimum overall GPA of 2.0.; and concurrent enrollment MGMT 4220. This is a capstone course drawing on the subject matter covered in prerequisite courses. Emphasis is on the formulation and implementation of corporate, business and functional strategies designed to achieve organizational objectives. Topics include the role of top management, globalization of business and ethical perspectives. Case studies and research reports may be used extensively. (It is preferred that this course be taken during the student's final semester.

MGMT 4220 Business Assessment Testing: 0 semester hours Prerequisite: Concurrent enrollment in MGMT 4219, Strategic

Management. A one-time lab during which a major field exam in business is administered. Course graded on a satisfactory/ unsatisfactory basis. Satisfactory grade required for graduation.

MGMT 4614 Entrepreneurship/Small Business Management: 3 semester hours

Prerequisite: BUS AD 2900, FINANCE 3500, MKTG 3700, MGMT 3600, and a 2.0 overall gpa. This integrative general management course is designed to communicate the academic principles of business management applicable to solving of problems of small and medium-size businesses and assist in their development. This course will provide a background in the forms of business, the development of business plans and systems integration, venture capital, accounting, procurement, promotion, financing, distribution and negotiations for initial organization, and operation and expansion of the firm.

MGMT 5600 Organizational Behavior And Administrative Processes: 3 semester hours

Same as P P ADM 6600. The theoretical and research contribution of the behavioral sciences to management and administration are examined and applied to selected organizational situations. Areas to be considered from the standpoint of both individual and organizational performance are communication, motivation, conflict, decision-making, goal setting, leadership, organizational design, climate, development and control. Utilizing a systems perspective, the course attempts to develop in each student an ability to analyze and solve organizational problems.

MGMT 5611 Advanced Organizational Behavior And Administrative Processes: 3 semester hours

Prerequisite: MGMT 5600. An indepth examination of selected organizational and individual theories affecting behavior and operating performance. Organizational structure and design, formal and informal organization, decision making, communications and motivation are analyzed for their organizational impact. The course seeks to develop further the ability to analyze and evaluate organizational processes and individual behavior.

MGMT 5612 Negotiating Workplace Conflict: 3 semester hours Same as P P ADM 6680. Prerequisites: P P ADM 6600 / MGMT 5600, and Graduate Standing Examines conflict and cooperation between individuals, groups, and organizations over the control of work. A central theme is how this conflict is expressed, controlled and resolved. Students will participate in exercises to learn the basics of two-party negotiations.

MGMT 5614 Managing Organizational Change And Design: 3 semester hours

Prerequisites: MGMT 5600 (may be taken concurrently). This course examines the ways to manage organizational change to meet the rapid pace of change in the business environment. Cases and current research inform class discussions of different types of restructuring. Topics may include creating learning organizations, designing for innovation, managing growth and downsizing, and building sustainable organizations.

MGMT 5621 Managing Human Resources: 3 semester hours

Prerequisite: MGMT 5600. In-depth examination of selected of human resource management issues from a contemporary manager's viewpoint. Topics examined include: personnel planning; employee selection; performance appraisal, training, and development; compensation; legal issues; discipline; and labor relations. The course examines these topics as they relate primarily to operational activities in organizations.

MGMT 5622 Union-Management Relations And Collective Bargaining: 3 semester hours

Prerequisite: MGMT 5600 and BUS AD 5900. Primary concern is with the setting and the dynamics of contract negotiation and administration. Emphasis is on the development of insight and understanding of the forces affecting the decisions of the parties to a labor contract within the context of the social, political and economic environment of the organization. A dynamic approach is taken to examine difficulties that arise in attempting to administer a collectively established relationship between employer and employee.

MGMT 5625 Selected Topics In Human Resource Management: 3 semester hours

Prerequisites: MGMT 5621 and LOG OM 5300. This course provides an advanced treatment of selected human resource management topics. Primary focus is on topics such as job analysis, pre-employment screening devices, test validation, and civil rights laws. Other topics, such as performance appraisal, recruitment, promotions, and terminations may be covered. Various class projects may be assigned to supplement readings, lectures, and discussion.

MGMT 5695 Seminar In Management: 3 semester hours

Prerequisites: MGMT 5600 Topics of current interest in management. Possible topics include: human resource management, international management, and entrepreneurship.

MGMT 5699 Individual Research in Management: 1-3 semester hoursPrerequisites: Consent of instructor and graduate director. Special individual research topics in Management under the guidance of a specific professor.

Marketing Courses

MKTG 3700 Basic Marketing: 3 semester hours

Prerequisites: ECON 1001, Junior standing and a 2.0 overall GPA. An examination of the character and importance of the marketing process, its essential functions and the institutions performing them. Attention is focused on the major ploicies (such as distribution, product, price, and promotion) which underlie the multifarious activities of marketing institutions and the managerial, economic, societal implications of such policies.

MKTG 3710 Consumer Behavior: 3 semester hours

Prerequisites: MKTG 3700, and a minimum overall gpa of 2.0. A study of such consumer functions as decision-making, attitude formation and change, cognition, perception, and learning. The marketing concepts of product positioning, segmentation, brand loyalty, shopping preference and diffusion of innovations are considered in context with the environmental, ethical, multicultural and social influences on an increasingly diverse American consumer.

MKTG 3720 Management Of Promotion: 3 semester hours

Prerequisite: MKTG 3700 and a 2.0 overall GPA. A study of the design, organization and implementation of the marketing "communications mix". Various methods such as advertising, personal selling, and publicity are analyzed as alternatives for use alone, or in combination to stimulate demand, reseller support, and buyer preference. Particular topics considered include: media selection, sales promotionals, packaging, selling strategy and their relationships in the promotion process.

MKTG 3721 Introduction to Digital Marketing Strategies: 3 semester hours

Prerequisites: MKTG 3700 and a minimum campus GPA of 2.0. This course explores the world of digital media marketing and how it impacts and is integrated along with our traditional marketing channels. We will explore how the balance of power has shifted between brands and consumers. Consumers are more active in the marketing process and in influencing how brands communicate with them than ever before. In particular we will explore: The latest digital marketing trends, how to build a strong website from an organic perspective, search strategies for success, website intelligence and tracking using Google Analytics, retaining customers via Email marketing, online Display advertising, social media strategy, affiliate marketing, mobile marketing trends and developing an integrated marketing plan.

MKTG 3722 Introduction to Social Media Marketing: 3 semester hours

Social networks are becoming an integral part of the marketing mix. In these platforms, brands can engage with prospects and consumers on many levels. In this course you will learn how to create a brand presence on these social networks, understand the differences between earned and paid media, be introduced to the various tools (free and paid) used to listen and engage with consumers, discuss how brands manage healthy communities, learn techniques used social media managers to identify influencers, the various ways engagement is measured including calculating social media ROI. Social networks to be discussed throughout the semester will include Facebook, Twitter, Tumblr, instagram, Linkedin, etc. Students will also be introduced to the various social measurement tools including Netbase (our partner), HootSuite, tweetdeck, Sprinklr, Technorati, etc. Real life case examples will be used throughout the semester.

MKTG 3738 Advertising Technique: 3 semester hours

Same as MEDIA ST 3338. Prerequisites: MEDIA ST 1100 or MKTG 3700 or consent of instructor. Techniques for creating advertising messages and campaigns to reach target audiences. Focus on the process of persuasion, importance of advertising in modern economics, rationale for company advertisement, evaluation of advertising effectiveness, and assessment of advertising myths and truths. Practical application of messages and campaigns will be stressed.

MKTG 3740 Marketing Research: 3 semester hours

Prerequisites: INFSYS 1800, MKTG 3700, LOG OM 3300, and a 2.0 Overall GPA. An investigation of the acquisition, presentation, and application of marketing information for management. Particular problems considered are defining information requirements, evaluating research findings, and utilizing information. Statistical methods, models, and/or cases are employed to illustrate approaches to marketing intelligence problems, such as sales forecasts, market delineation, buyer motives, store location, and performance of marketing functions.

MKTG 3750 Sales Management: 3 semester hours

Prerequisites: MKTG 3700 and MGMT 3600. (MGMT 3600 may be taken concurrently). Also a minimum campus GPA of 2.0. the aim of this course is to provide an understanding of how selling is critical to the success of marketing. The course will promote critical thinking skills as well as practical selling skills needed in a competitive marketplace. Course topics include, among others, selling principles & techniques, understanding of the tasks and roles of the sales manager, the management of sales professionals within an organization, developing and applying effective persuasive communications, creating a vision, developing and implementing a sales-team strategy, stucturing sales-force, designing and assigning territories, recruiting, training, motivation and evaluating salespeople, methods of compensation, and forecasting sales. The emphasis will be on ways the sales-force can be molded to build long-lasting relationships with customers through the systematic analysis and solution of customer's problems.

MKTG 3760 Business To Business Marketing: 3 semester hours

Prerequisites: Senior standing, MATH 1105, MKTG 3700 and a 2.0 overall GPA. A study of the nature of the business-to-business (organizational) marketplace, concentrating on those aspects that differentiate it from consumer markets. The major focus of the course is marekting strategy, starting with analysis of the market wants and segments, concepts of pricing, the distribution arrangements, and buyer/seller relations. In this last area, consideration will be given to service, personal selling, sales promotion, and advertising, as found in the organizational marketplace. At all times emphasis is given to relating business-to-business marketing strategy to basic concepts in underlying business disciplines. Lectures and case discussions are used heavily in the course.

MKTG 3770 Introduction To Transportation: 3 semester hours

Prerequisite: A minimum campus GPA of 2.0; also Junior standing or instructor consent. This course provides an overview of the transportation sector, including history, providers, users, and government regulation. The importance and significance of transportation, the operational aspects of transportation modes of rail, water, motor, air and pipeline; the demand and supply of transportation, and the managerial aspects of these modes of transport will be covered in the course.

MKTG 3771 Traffic And Transportation Management: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and Junior standing or instructor's consent. This course focuses on the purchase of transportation and warehouse services and/or the operation of transportation services as a firm activity. This course is also designed to provide the student with an exposure to the managerial aspects of transportation management as a function of the firm's logistical strategy. In addition, it includes an introduction to the management of firms with the various transportation modes of rail, motor, air, watar, and pipelines. This course is designed to provide the student with a basic understanding of the issues and work performed by traffic managers and the management of modern transportation firms.

MKTG 3776 Transportation Security, Safety and Disaster Preparedness: 3 semester hours

Prerequisites: Junior standing or intructor's consent. This course emphasizes security issues related to the nation's highway, aviation, pipeline, inland waterway, transit, and rail networks, as well as port facilities. This course provides an overview of transportation safety issues including passenger and employee safety and hazardous materials. Strategies to prepare for transportation-related disasters in addition to the transport of people and goods after terrorism events or natural disasters are also addressed.

MKTG 3777 Aviation in American Life: 3 semester hours

Prerequisites: Junior standing or instructor's consent. This course focuses on the history and business of aviation in the United States from balloon flights preceding the Wright brothers through the terrorist attacks in September 2001 with emphasis upon how aviation and aviators have influenced American society, culture. Themes include the evolution of aviation technology, the growth of the commercial/military aviation/aerospace industries, issues of race and gender in aviation, the development of America's commercial airlines, aviation's influence upon American art, films, advertising, and literature, the significance of the space race, and the role of aerial weapons of war.

MKTG 3780 International Marketing: 3 semester hours

Same as INTL BUS 3780. Prerequisites: MKTG 3700 and a 2.0 overall gpa. Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a country's cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, economic and social development, the spread of multinational corporations, business ethics, and current economic and marketing issues are examined.

MKTG 3785 Women in International Entrepreneurship: 3 semester hours

Prerequisites: MKTG 3700; MKTG 3780 or INTL BUS 3780; and Junior standing. This course is an integration of international business and entrepreneurship, with a focus on women entrepreneurs. It is designed to help students learn how entrepreneurs create and grow their ventures internationally. We will examine how entrepreneurs search, evaluate, and exploit opportunities across national boundaries to market goods and services effectively. We will explore the unique circumstances faced by women entrepreneurs and the appropriate strategies developed in order to sustain international growth.

MKTG 3787 Marketing in the European Union: 3 semester hours Same as INTL BUS 3787. Prerequisites: MKTG 3780 or instructor's permission. The European Union (EU) is both a major customer and major competitor of the United States. The inclusion of many of the Eastern European countries into the EU has added another challenge to our ability to trade in this area. The better we understand the people, institutions and policies of the EU, the better positioned we will be to conduct business

European countries into the EU has added another challenge to our ability to trade in this area. The better we understand the people, institutions and policies of the EU, the better positioned we will be to conduct business effectively. This course will emphasize understanding the institutional structure that unites the European Union as well as the cultural and political diversity of its members, and provide insights into how business activity functions in the European Environment.

MKTG 3790 Internship In Marketing: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Marketing electives and have consent of supervising marketing instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of Marketing where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Marketing faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3790 may be counted toward the minimum credit hours of marketing electives required for a marketing emphasis.

MKTG 3795 Special Administration Problems - Marketing: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

MKTG 3798 Seminar in Marketing: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of marketing. May be repeated for credit with different topics.

MKTG 3799 Independent Study In Marketing: 1-3 semester hours Prerequisites: Minimum compute a p.a. of 2.0 and approval by the

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in marketing under the supervision of a full-time marketing faculty member.

MKTG 4700 Marketing Management: 3 semester hours

Prerequisites: MATH 1105, MKTG 3700, three other marketing elective courses, senior standing, and a 2.0 campus GPA An intensive analysis of major marketing decisions facing the firm, such as level, mix, allocation, and strategy of marketing efforts. Specific decision areas investigated include market determination, pricing, physical distribution, product policy, promotion, channel management, and buyer behavior. Competitive, political, legal, and social factors that may affect such areas of decisions are discussed. Cases, models, and problems are used heavily.

MKTG 5700 Contemporary Marketing Concepts: 3 semester hours

Prerequisite: BUS AD 5000 Designed for students with no prior course work in the field of marketing. A wide spectrum of marketing institutions and activities is covered. The impact of marketing on the total firm, the economy, and society in general is assessed. The course is intended to develop and organize the fundamental marketing concepts necessary to an analytical study of consumer behavior, the economic environment and four managerial aspects of marketing. The acquisition and utilization of marketing research data for problem solving is stressed. Relation and integration of basic marketing knowledge to the successful development of sound marketing policy, planning, and strategy is developed.

MKTG 5701 Marketing Planning And Strategy: 3 semester hours

Prerequisite: MKTG 5700 Emphasizes the development of a total marketing program through an analytical study of the marketing-mix, the diagnosis of the business situation, along with the influence of exogenous variables and the development of an effective overall marketing strategy. Stresses importance of an integrated marketing plan and utilizes modern decision-making tools. Supplementary readings, journal articles, and current periodicals are used to place the theoretical framework of the course into the contemporary environment of the market place.

MKTG 5710 Consumer Motivation And Behavior: 3 semester hours

Prerequisite: MKTG 5700. An analysis of the socio-psychological foundations of consumer behavior including personality differences, needs and wants, status symbols, social change and mobility, fads and fashions. Consumer spending and saving habits, product preferences, leisure-time patterns, shopping behavior and motivation research also are examined for their impact on advertising, selling and marketing management.

MKTG 5720 Marketing Communications: 3 semester hours

Prerequisite: MKTG 5700. Deals with managerial decision making by placing particular emphasis on assimilating and integrating all forms of marketing communication in the development of promotional policies, plans and procedures. Course approach is analytical rather than descriptive in investigating the aress of advertising, public relations, sales management, packaging and other forms of demand stimulation.

MKTG 5721 Digital Media Marketing Strategies and Measurement: 3 semester hours

Most every business today needs a digital marketing strategy to engage with current customers and attract new. Consumers are changing the way they communicate with and research brands. Brands are changing the way they promote and engage with consumers. We are embracing digital technologies to communicate in ways that were inconceivable just a few short years ago. We have shifted our attention from traditional media marketing to internet, wireless devices, and other digital platforms. In this course you will assess the various marketing channels; the importance of establishing a social media strategy; understand the digital trends that are shaping the future; experiment with today's cutting edge digital marketing tools (licensed and free) including Adobe SiteCatalyst, Radian6, Lithium, Alexa, and Hootsuite to name a few; learn how to develop a digital marketing plan; how we define key performance indicators (KPI's); techniques used to measure the ROI of your digital campaigns; marketing mix and campaign attribution. Guest speakers will include such companies as MTV, Nickelodeon, PepsiCo, IBM, ForeSee, Klout, Ogilvy, Sprinklr, TrendrrTV. This class will require group projects in addition to weekly homework and reading assignments. Course materials will be developed by the professor and will be distributed digitally.

MKTG 5722 Social Media Marketing Strategy: 3 semester hours

MKTG 5740 Marketing And Business Research: 3 semester hours

Prerequisites: MKTG 5700 and LOG OM 5300. A broad approach to marketing research as a model for acquiring, retriving, and analyzing decision-making information. Includes market measurement, evaluation of sales and cost effectiveness, sales forecasting and primary marketing research studies aimed at solving specific problems. Emphasis is placed also on building a theoretical and analytical framework to provide flexibility in the design of marketing experiments and in judging recent research innovations.

MKTG 5750 Sales Management: 3 semester hours

MKTG 5761 Business To Business Marketing: 3 semester hours

The course provids graduate students with an understanding of the role of business to business marketing as it pertains to business, government, and institutional customers. The course places a heavy emphasis on buyer-seller interaction embodying business to business marketing. In addition to discussing the standard theories and covering the subject domain of business marketing, the course focuses on the finer aspects of business to business marketing negotiations using exercises and readings Student groups enact complex industrial buyer-seller negotiations striving to achieve their respective organizational goals.

MKTG 5770 Supply Chain Management Strategy: 3 semester hours
Prerequisite: Consent of instructor Course addresses supply chain
management and its implications, with a focus on what firms can do to
maintain competitiveness in the quickly changing business landscape.
Topics may include, but are not limited to, value chain analyses, marketing
business-to-business, supply chain analytics, procurement, production,

logistics, and inventory management within supply chains.

MKTG 5775 Domestic Transportation: 3 semester hours

Domestic Transportation is the study of North American transportation modes, their management and operating characteristics. This graduate course is part of the Mid-West Transportation Consortium where UMSL, along with 5 other Universities, provides guest lectures that comment on aspects of transportation. UMSL students concentrate on the business aspects of transportation.

MKTG 5780 Seminar In International Marketing: 3 semester hours
Same as INTL BUS 5780. Prerequisite: MKTG 5700 An advanced seminar
on topics in international or global marketing. Possible topics include the
globalization of trade, export marketing, international market opportunity
analysis, and negotiation for international marketers. Students who take
one version of this course (e.g., globalization of trade) can take a second
version of the course (e.g., negotiation for international marketers) with
prior permission.

MKTG 5790 Internship in Marketing: 3 semester hours

Prerequisites: Students must have completed and/or be enrolled in at least 6 credit hours of marketing electives and have consent of supervising faculty member and Area Coordinator. Students work in the field of Marketing where they apply the knowledge and skill learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. The student's program will be monitored by a Marketing faculty member with the student providing a formal report at the end of the project.

MKTG 5795 Seminar In Marketing: 3 semester hours

Prerequisites: MKTG 5700 This course addresses advanced problems in contemporary marketing. Topics may include, but are not limited to, marketing stretegy, marketing communications and advertising, product management, consumer behavior, channels of distribution, international marketing, and marketing research.

MKTG 5799 Individual Research in Marketing: 1-3 semester hoursPrerequisites: Consent of instructor and graduate director. Special individual research topics in marketing under the guidance of a specific professor.

Graduate Study

The College of Business Administration offers four graduate degrees: the Doctor of Philosophy in Business Administration (Ph.D.) the Master of Business Administration (MBA), the Master of Science in Information Systems (MS in IS), and the Master of Accounting (MAcc). All programs carry the prestigious accreditation of AACSB-International.

Admission Requirements

The admissions decision is based on a combination of factors. Consideration is given to a candidate's academic record, scores on the Graduate Management Admissions Test (GMAT), work and leadership experience, a personal narrative on the application form, and recommendations.

As in most AACSB-accredited graduate business programs, the UMSL College of Business generally requires Graduate Management Admissions Test (GMAT) scores. Information on the GMAT exam can be obtained at www.mba.com. The examination tests one's ability to read, understand, and to reason logically with both verbal and quantitative material. The test is not a measure of achievement or business knowledge. Under certain conditions, the applicant may petition for waiver of the GMAT requirement, based on possession of an advanced degree and/or the ability to supply acceptable scores from an equivalent test.

Doctor of Philosophy in Business Administration (Ph.D.)

The Ph.D. program includes an emphasis in Logistics & Supply Chain Management (LSCM). This is the only LSCM emphasis in a doctoral business program offered in Missouri. Courses are taught by full-time, nationally known scholars who have been recognized as one of the most academically prolific faculties in America. The Ph.D. program is designed to prepare scholars who will excel in the national and international marketplace, especially in academic and research organizations, but graduates may also find opportunities in the growing private sector demand for advanced LSCM expertise.

Master of Accounting Program (MAcc)

The MAcc program prepares students to enter the accounting profession or to further existing accounting careers.

It is designed to accommodate students who have earned an undergraduate degree with an accounting major. Students who have not completed an undergraduate accounting degree must complete the following courses prior to entry into the MAcc program:

INFSYS 1800 (p. 282)	Computers And Information Systems	3
ACCTNG 2400 (p. 282)	Fundamentals Of Financial Accounting	3
ACCTNG 2410 (p. 282)	Managerial Accounting	3
ACCTNG 3401 (p. 282)	Financial Accounting And Reporting I	3

ACCTNG 3402 (p. 282)	Financial Accounting And Reporting II	3
ACCTNG 3411 (p. 282)	Cost Accounting	3
ACCTNG 3421 (p. 282)	Accounting Information Systems	3
ACCTNG 3441 (p. 282)	Income Taxes	3

These requirements may be waived with appropriate prior coursework. Candidates who have not completed the preparatory courses may apply and be provisionally accepted into the MAcc program, but must complete the courses before registration as a Master of Accounting student can be finalized.

Students must complete a minimum of 30 credit hours while enrolled as a graduate student.

MAcc Degree Requirements

General Business

All students must	complete the following courses: 1	
ECON 4105 (p. 282)	Quantitative Mth & Modeling In Econ, Business & Social Sciences	3
LOG OM 5300 (p. 282)	Statistical Analysis For Management Decisions	3
Select six of the fo	ollowing:	18
BUS AD 5100 (p. 282)	Managerial Communication	
BUS AD 5900 (p. 282)	Law, Ethics And Business	
BUS AD 6990 (p. 282)	Strategy Formulation And Implementation	
FINANCE 6500 (p. 282)	Financial Management	
INFSYS 5800 (p. 282)	Management Information Systems	
LOG OM 5320 (p. 282)	Production And Operations Management	
MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	
MKTG 5700 (p. 282)	Contemporary Marketing Concepts	
	- ?	

Accounting Course Requirements 2

Students must complete the following three courses:

ACCTNG 4401 (p. 282)	Financial Accounting And Reporting III	3
ACCTNG 4402 (p. 282)	Financial Accounting And Reporting IV	3
ACCTNG 4435 (p. 282)	Auditing	3

Research Course

Select one of the f	Select one of the following:				
ACCTNG 5402	Professional Accounting Research	3			
(p. 282)					
or ACCTNG 5406	Research and Professional Writing in Accounting				
(p. 282)					

Seminar			Select six of the f	following:	18
Select one of the	following:		BUS AD 5100	Managerial Communication	
ACCTNG 5403	Seminar In Financial Accounting	3	BUS AD 5900	Law, Ethics And Business	
(p. 282)			BUS AD 6990	Strategy Formulation And Implementation	
	2 Seminar in Controllership		FINANCE 650	0 Financial Management	
(p. 282)			INFSYS 5800	Management Information Systems	
	5 Seminar In Auditing		LOG OM 5320	Production And Operations Management	
(p. 282)	4 Cominge la Toursian		MGMT 5600	Organizational Behavior And Administrative	
(p. 282)	1 Seminar In Taxation			Processes	
Accounting Elec	ctives		MKTG 5700	Contemporary Marketing Concepts	
	following (Not all courses are offered each year):		Accounting Cou	rse Requirements ²	
	2 Professional Accounting Research		Students must co	emplete the follwoing three courses:	
(p. 282)	2 Troibadanai 7 tabaanaing Ttobbaran		ACCTNG 4401	Financial Accounting And Reporting III	3
., ,	3 Seminar In Financial Accounting		ACCTNG 4402	Financial Accounting And Reporting IV	3
(p. 282)	Ç		ACCTNG 4435	Auditing	3
ACCTNG 540	6 Research and Professional Writing in Accounting		Research Cours	e	
(p. 282)			Select one of the	following:	
ACCTNG 540	8 Fraud Examination		ACCTNG 5402	Professional Accounting Research	3
(p. 282)			or ACCTNG 5406	6 Research and Professional Writing in Accounting	
	2 Seminar in Controllership		Seminar		
(p. 282)			Select one of the	following:	
	5 Seminar In Auditing		ACCTNG 5403	Seminar In Financial Accounting	3
(p. 282)	C Customs Audition		or ACCTNG 5412	2 Seminar in Controllership	
(p. 282)	6 Systems Auditing		or ACCTNG 5435	5 Seminar In Auditing	
., ,	6 Advanced Topics in Taxation			1 Seminar In Taxation	
(p. 282)	o Advanced Topics III Taxation		Accounting Elec	ctives	
,	1 Accounting and Auditing in Governmental and Not-		_	following (Not all courses are offered each year):	
(p. 282)	for-Profit Entities			2 Professional Accounting Research	
ACCTNG 548	0 International Accounting			3 Seminar In Financial Accounting	
(p. 282)	·		ACCTNG 5406	6 Research and Professional Writing in Accounting	
ACCTNG 549	0 Graduate Internship in Accounting			8 Fraud Examination	
(p. 282)			ACCTNG 5412	2 Seminar in Controllership	
	1 Contemporary Issues In Accountancy		ACCTNG 543	5 Seminar In Auditing	
(p. 282)				6 Systems Auditing	
	8 Graduate Seminar in Accounting			6 Advanced Topics in Taxation	
(p. 282)	4 Octobra la Tavadia a			Accounting and Auditing in Governmental and Not	-
	1 Seminar In Taxation			for-Profit Entities	
(p. 282) Non-Accounting	1 Courses		ACCTNG 5480	0 International Accounting	
_	omplete at least three courses from other business		ACCTNG 5490	0 Graduate Internship in Accounting	
	num: 9 credit hours at the graduate level)		ACCTNG 549	1 Contemporary Issues In Accountancy	
. ,	5000 (p. 282) and above		ACCTNG 5498	8 Graduate Seminar in Accounting	
•	6500 (p. 282) and above		ACCTNG 644	1 Seminar In Taxation	
•	5800 (p. 282) and above		Non-Accounting	Courses	
•	5300 (p. 282) and above		Students must co	omplete at least three courses from other business	
•	600 (p. 282) and above		disciplines (minim	num: 9 credit hours at the graduate level)	
•	00 (p. 282) and above		Any BUS AD 5	5000 and above	
7 day Wile 10 07	00 (p. 202) and above		Any FINANCE	6500 and above	
			Any INFSYS 5	5800 and above	
General Busines			Any LOG OM	5300 and above	
All students must	t complete the following courses: 1		Any MGMT 56	500 and above	
ECON 4105	Quantitative Mth & Modeling In Econ, Business &	3	Any MKTG 57		
	Social Sciences				

3

LOG OM 5300

Statistical Analysis For Management Decisions

Master of Business Administration Program (MBA)

The MBA is available in three formats: the Evening MBA program, the Internet-based Professional MBA program and the International MBA program. All are fully accredited by AACSB International – The Association to Advance Collegiate Schools of Business, the premier accrediting body in collegiate business education. The MBA programs are designed to prepare students for administrative and professional positions. They also provide an appropriate foundation for students contemplating doctoral work and eventual careers in college teaching and research. The programs are designed for students who have bachelor's degrees from accredited institutions, including those with undergraduate backgrounds in the sciences, engineering, humanities, or arts as well as business. Graduate Business program information is available at the College of Business Administration website.

The Evening MBA Program

The MBA curriculum provides training in the fundamental areas of business administration. The core program is designed to generate a working knowledge of the concepts and interrelationships of four broad categories fundamental to management training:

- The external environment confronting business organizations and management's response to legal, economic, social, and political issues.
- The internal operation of various business organizations and management's role in channeling human behavior to satisfy both personal and organizational goals.
- Basic concepts, terminology, and interaction of the accounting, marketing, finance, information technology and operations management disciplines.
- Quantitative management decision--making models put to use in the context of current management information systems.

The total degree program is integrated by a course in strategy formulation and implementation in the student's last semester. There is no thesis requirement; however, students interested in undertaking an individual research project may earn elective credit by enrolling in a supervised independent study course.

Degree Requirements

Depending on the student's previous background, programs will range from 39 to 54 hours. Coursework must be completed within a six--year period. At least 30 hours of coursework must be taken while enrolled as an MBA candidate at UMSL.

Learning Outcomes

- Develop the ability to write and deliver a professional presentation.
- Develop the ability to form teams and work in teams.
- Understand ethical considerations in all dimensions of business.
- Be aware of international issues in business.
- · Have the ability to critically evaluate information.
- Be able to independently research a topic in business.
- Develop skill in using technology to solve business problems.
- Understand basic management principles and practices and how they affect the success of an organization.
- Understand basic finance principles and practices and how they affect the success of an organization.

- Understand basic accounting principles and practices and how they affect the success of an organization.
- Understand basic operations and logistic management principles and practices and how they affect the success of an organization.
- Understand basic marketing principles and practices and how they affect the success of an organization.
- Understand basic information systems principles and practices and how they affect the success of an organization.
- · Develop skill to think strategically about the business.

Candidates must take at least one course at either the core level or from the business breadth requirements list in each of the following six areas: accounting, finance, management, marketing, information systems, and logistics and operations management. Also, no more than 15 credit hours may be taken in any one of the six areas. Students are also required to have completed the equivalent of ECON 4105 (p. 282), Quantitative Methods and Modeling in Economics, Business, and the Social Sciences, by the end of their first 15 hours in the program.

Required Courses

The following courses or their equivalents are required of all degree candidates.

General Requirements

	ECON 4105 (p. 282)	Quantitative Mth & Modeling In Econ, Business & Social Sciences	3
	BUS AD 5000 (p. 282)	Economics For Managers	3
	BUS AD 5100 (p. 282)	Managerial Communication	3
	BUS AD 6990 (p. 282)	Strategy Formulation And Implementation	3
	LOG OM 5300 (p. 282)	Statistical Analysis For Management Decisions	3
	BUS AD 5900 (p. 282)	Law, Ethics And Business	3
	Core Requiremen	nts	
	ACCTNG 5400 (p. 282)	Financial And Managerial Accounting	3
	FINANCE 6500 (p. 282)	Financial Management	3
	MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	3
	MKTG 5700 (p. 282)	Contemporary Marketing Concepts	3
	INFSYS 5800 (p. 282)	Management Information Systems	3
	LOG OM 5320 (p. 282)	Production And Operations Management	3

Business Breadth Requirements - 9 hours

A student must take a second-level course in three of the following areas:

- Accounting: ACCTNG 5401 (p. 282), Financial Reporting and Analysis
- Finance: Any approved graduate-level course beyond FINANCE 6500 (https://nextbulletin.umsl.edu/

courseleaf/js/fckeditor/editor/fckeditor.html? InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)

- Management: Any approved graduate-level course beyond MGMT 5600 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html? InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Marketing: Any approved graduate-level course beyond MKTG 5700 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html?
 InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Information Systems: Any approved graduate-level course beyondINFSYS 5800 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html?
 InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Logistics and Operations Management: Any approved graduate-level course beyondLOG OM 5320 (https:// nextbulletin.umsl.edu/courseleaf/js/fckeditor/editor/fckeditor.html? InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)

Electives

The student must take a minimum of nine hours of elective courses. A maximum of six hours of electives may be taken at the undergraduate level. Graduate students may be required to complete additional work in these courses. Nine elective hours may be taken outside the College of Business Administration if the student has approval in advance from a graduate adviser for the specific courses desired.

Previous Education

Based on a formal review and evaluation by the Office of Graduate Studies in Business, students may be granted waivers of certain courses from the general and core requirements. Waivers depend on the applicability of prior coursework and the student's performance in these courses. Regardless of the number of courses waived, all students must take at least 39 hours to earn the degree.

Candidates must take at least one course at either the core level or from the business breadth requirements list in each of the following six areas: accounting, finance, management, marketing, information systems, and logistics and operations management. Also, no more than 15 credit hours may be taken in any one of the six areas. Students are also required to have completed the equivalent of ECON 4105 (p. 282), Quantitative Methods and Modeling in Economics, Business, and the Social Sciences, by the end of their first 15 hours in the program.

Required Courses

The following courses or their equivalents are required of all degree candidates.

General Requirements

•		
ECON 4105 (p. 282)	Quantitative Mth & Modeling In Econ, Business & Social Sciences	3
BUS AD 5000 (p. 282)	Economics For Managers	3
BUS AD 5100 (p. 282)	Managerial Communication	3
BUS AD 6990 (p. 282)	Strategy Formulation And Implementation	3
LOG OM 5300 (p. 282)	Statistical Analysis For Management Decisions	3

	BUS AD 5900 (p. 282)	Law, Ethics And Business	3	
	Core Requirements			
	ACCTNG 5400 (p. 282)	Financial And Managerial Accounting	3	
	FINANCE 6500 (p. 282)	Financial Management	3	
	MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	3	
	MKTG 5700 (p. 282)	Contemporary Marketing Concepts	3	
	INFSYS 5800 (p. 282)	Management Information Systems	3	
	LOG OM 5320 (p. 282)	Production And Operations Management	3	

Business Breadth Requirements - 9 hours

A student must take a second-level course in three of the following areas:

- Accounting: ACCTNG 5401 (p. 282), Financial Reporting and Analysis
- Finance: Any approved graduate-level course beyond FINANCE 6500 (p. 282)
- Management: Any approved graduate-level course beyond MGMT 5600 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html? InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Marketing: Any approved graduate-level course beyond MKTG 5700 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html? InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Information Systems: Any approved graduate-level course beyond INFSYS 5800 (https://nextbulletin.umsl.edu/ courseleaf/js/fckeditor/editor/fckeditor.html?
 InstanceName=attr_businessadministrationtext&Toolbar=PageWizard)
- Logistics and Operations Management: Any approved graduate-level course beyond LOG OM 5320 (p. 282)

Electives

The student must take a minimum of nine hours of elective courses. A maximum of six hours of electives may be taken at the undergraduate level. Graduate students may be required to complete additional work in these courses. Nine elective hours may be taken outside the College of Business Administration if the student has approval in advance from a graduate adviser for the specific courses desired.

Emphasis Areas

MBA students may obtain emphasis areas in Accounting, Finance, Information Systems, International Business, Logistics and Supply Chain Management, Management, Marketing or Operations Management. In addition to the requirements articulated above, the requirements for each emphasis area are shown below.

Emphasis in Accounting

MBA students seeking an emphasis in Accounting must complete a minimum of 12 hours of accounting electives. Of these electives, six hours must be numbered ACCTNG 5401 (p. 282) or above, and six hours must be numbered ACCTNG 4400 or above. ACCTNG 5400 (p. 282) does not count toward the Emphasis in Accounting. A maximum of 15 hours in

any functional area will count toward degree requirements. Only courses that are substantially different from courses taken for credit in a student's undergraduate program will be acceptable. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA.

Emphasis in Finance

MBA students seeking an emphasis in Finance must complete a minimum of 12 hours of Finance electives beyond FINANCE 6500 (p. 282). A maximum of 15 hours in any functional area will count toward the degree requirements. One Finance course may apply toward the business breadth requirement, and the remainder toward the elective requirement. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

Emphasis in Information Systems

R	equired Course:		3
	INFSYS 5800 (p. 282)	Management Information Systems	
S	elect four of the	following:	12
	INFSYS 6805 (p. 282)	Applications Of Programming For Business Solutions	
	INFSYS 6835 (p. 282)	IT-Enabled Business	
	INFSYS 6836 (p. 282)	Telecommunications: Design And Management	
	INFSYS 6837 (p. 282)	Information Systems Architecture	
	INFSYS 6838 (p. 282)	Business Processes: Design, Management & Integration	
	INFSYS 6840 (p. 282)	Information Systems Analysis	
	INFSYS 6845 (p. 282)	Database Management Systems	
	INFSYS 6846 (p. 282)	Management Of Global Sourcing	
	INFSYS 6847 (p. 282)	Financial And Project Management	
	INFSYS 6848 (p. 282)	Knowledge Management And Business Intelligence	
	INFSYS 6850 (p. 282)	Information Systems Design	
	INFSYS 6881 (p. 282)	Management Of Transnational Information Systems	
	INFSYS 6891 (p. 282)	Seminar In Management Information Systems	

Guided Internship

A maximum of 1 course outside IS (Courses outside the College of Business must be approved by the IS department chairperson)

Emphasis in International Business

MBA students seeking an emphasis in International Business (IB) must complete a minimum of 12 hours by completing four courses from among the following list:

ACCTNG 5480 International Accounting (p. 282)

FINANCE 6580 (p. 282)	International Financial Management	3
FINANCE 6590 (p. 282)	Seminar In Finance	3
FINANCE 6581 (p. 282)	Seminar In International Investments	3
INFSYS 6846 (p. 282)	Management Of Global Sourcing	3
INFSYS 6881 (p. 282)	Management Of Transnational Information Systems	3
LOG OM 5381 (p. 282)	International Logistics And Operations Management	3
INTL BUS 5289 (p. 282)	International Business Strategies	3
MGMT 5695 (p. 282)	Seminar In Management	3
MKTG 5780 (p. 282)	Seminar In International Marketing	3
MKTG 5795 (p. 282)	Seminar In Marketing	3
BUS AD 5299 (p. 282)	Individual Research	1-3

In addition to the above list, courses approved by the director of the International Business Institute will count towards the IB concentration. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective courses required will depend on the number of hours waived. Students must complete at least 39 hours credit hours to earn the MBA degree.

Emphasis in Logistics and Supply Chain Management

MBA students seeking an emphasis in Logistics & Supply Chain Management must complete 9 hours from approved courses in addition to LOG OM 5300 (p. 282) and LOG OM 5320 (p. 282). Up to 3 hours may be transferred from another AACSB-accredited graduate program at the discretion of the chairperson of the LOM Department. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective hours required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

Emphasis in Management

MBA students seeking an Emphasis in Management may choose one of the tracks specified below. Regardless of the track chosen, one must complete a minimum of 12 hours of Management electives beyond MGMT 5600 (p. 282). A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective courses required will depend on the number of hours waived. Students must take at least 39 credit hours to earn the MBA degree.

General Management Track

Any 4 MGMT courses.

Human Resource Management Track

MGMT 5621 (p. Managing Human Resources 282)

3 courses selected from:

3

MGMT 5622 Union-Management Relations And Collective (p. 282) Bargaining

MGMT 5624	Organizational Training ¹
MGMT 5625 (p. 282)	Selected Topics In Human Resource Management

This course will not be offered in 2013-2104. Please contact the department for more information.

Emphasis in Marketing

MBA students seeking an emphasis in Marketing must complete a minimum of 12 hours of Marketing electives beyond MKTG 5700 (p. 282), including MKTG 5701 (p. 282). A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective courses required will depend on the number of hour waived. Students must complete at least 39 hours credit hours to earn the MBA degree.

Emphasis in Operations Management

MBA students seeking an emphasis in Operations Management must complete 9 hours from approved courses in addition to LOG OM 5300 (p. 282) and LOG OM 5320 (p. 282). Up to 3 hours may be transferred from another AACSB–accredited graduate program at the discretion of the department chairperson. A maximum of 15 hours in any functional area will count toward the degree requirements. The total number of elective hours required will depend on the number of hours waived. Students must complete at least 39 credit hours to earn the MBA degree.

A student cannot receive an emphasis in both Operations Management and Logistics & Supply Chain Management for the same set of courses. An overlap of up to 3 credit hours out of the 9 hours required is allowed.

Professional MBA Program

A weekend-based Internet-enhanced version of the MBA program exists as an alternative to the traditional part-time evening program. This program is a 48-credit-hour program for professionals with busy work or travel schedules. Students meet on campus monthly, with the remainder of the interaction between instructor and students taking place online. Students proceed through the program as part of a cohort group and complete the requirements for the degree in two years.

The first 30 hours of the Internet-based program consist of the same core courses required in the evening program (except for the mathematics and economics requirements, which are treated as prerequisites and must be satisfied prior to starting the program). The remaining 18 hours consist of the following courses:

ACCTNG 5401 (p. 282)	Financial Reporting And Analysis	3
FINANCE 6590 (p. 282)	Seminar In Finance	3
MGMT 5695 (p. 282)	Seminar In Management	3
MKTG 5795 (p. 282)	Seminar In Marketing	3
INFSYS 6891 (p. 282)	Seminar In Management Information Systems	3
LOG OM 6395 (p. 282)	Seminar In Logistics And Operations Management	3

International MBA Program

An International version of the MBA program also exists as an alternative to the evening MBA program. This program is a two-year, full-time program. Students take courses the first year outside the U.S. at a partner university and then take courses the second year on the University of Missouri–St. Louis campus.

International MBA Program Degree Requirements

In addition to the requirements of the evening MBA program, the International MBA program requires an internship (outside the U.S. for Americans and in the U.S. for all others). The program also requires a proficiency in at least one major commercial language in addition to English as a prerequisite. (Coursework is generally in English). All participants in the International MBA program must meet the same general and core requirements as those in the Evening MBA program.

Master of Science in Information Systems (MS in IS)

The Master of Science in IS program is designed to provide the technical and managerial knowledge to operate successfully in careers associated with the design, development and management of computer-based information, telecommunications, and Internet applications. The program accommodates students with undergraduate degrees specializing in IS, business, and computer science, as well as students with undergraduate degrees outside business.

MS in IS Program Degree Requirements

The program may require as few as 30 hours for students with undergraduate business degrees from AACSB-accredited institutions. Because of the need to attain general business core competencies as a foundation of the MS in IS requirements, students with no academic business background will be required to take additional hours as outlined below.

General Requirements

All students must meet course requirements in quantitative reasoning, general business and IS. Students must complete a minimum of 30 credit hours beyond the general business core. Of the 30 hours beyond the general business core, at least 24 hours must cover topics beyond INFSYS 5800 and INFSYS 6805. Students with a B.S.B.A. with an emphasis in IS or a B.S. in IS from an AACSB-accredited institution may, at the student's discretion, substitute two electives for INFSYS 5800 and INFSYS 6805. Waivers may be granted for other courses with appropriate undergraduate course work.

Quantitative Reasoning Requirement

Students are required to have completed by the end of their first semester in the program the equivalent of ECON 4105, Quantitative Methods and Modeling in Economics, Business and the Social Sciences with a grade of C or better. Students are also required to complete the equivalent of LOG OM 5300 Statistical Analysis for Management Decisions with a grade of C or better. These courses do not count towards the graduate degree, but waivers may be granted with appropriate undergraduate course work.

General Business Core

Students must have a B.S. in IS, or a B.S.B.A. with an emphasis in MIS that requires a managerial communication course, and coursework equivalent to at least five of the following courses:

BUS AD 5900	Law, Ethics And Business	3
ACCTNG 5400	Financial And Managerial Accounting	3
FINANCE 6500	Financial Management	3
MGMT 5600	Organizational Behavior And Administrative Processes	3
MKTG 5700	Contemporary Marketing Concepts	3
LOG OM 5320	Production And Operations Management	3
BUS AD 6990	Strategy Formulation And Implementation	3

Students who have not met this prerequisite must complete BUS AD 5100 Managerial Communication and course work from at least five of the courses listed above.

Program Requirements

A. Basic IS courses			
INFSYS 5800	Management Information Systems	3	
INFSYS 6805	Applications Of Programming For Business Solutions	3	
INFSYS 6840	Information Systems Analysis	3	
INFSYS 6845	Database Management Systems	3	
INFSYS 6850	Information Systems Design	3	
Select five of the	following:	15	
INFSYS 6808	Internet Programming For Business	3	
INFSYS 6835	IT-Enabled Business	3	
INFSYS 6836	Telecommunications: Design And Management	3	
INFSYS 6837	Information Systems Architecture	3	
INFSYS 6838	Business Processes: Design, Management & Integration	3	
INFSYS 6846	Management Of Global Sourcing	3	
INFSYS 6847	Financial And Project Management	3	
INFSYS 6848	Knowledge Management And Business Intelligence	3	
INFSYS 6881	Management Of Transnational Information Systems	3	
INFSYS 6891	Seminar In Management Information Systems	3	
A maximum of 2 courses outside IS. Courses outside the College of Business must be approved by the IS department chairperson.			

Ph.D. in Business Administration Admissions Requirements

Admission decisions are made on the basis of past academic record, intellectual ability, GMAT or GRE scores, and career commitment. Applications are accepted from students who have baccalaureate or graduate degrees. Past graduate work may be credited toward degree requirements where appropriate. Applicants must submit:

- Official academic transcripts
- Official GMAT or GRE results in fields approved by the College of Business Administration.
- Three letters of recommendation (at least two from individuals with earned doctorates).

· A statement of objectives for the course of study.

Graduate Assistantships

Stipends for research and teaching assistantships (20 hours per week) are awarded on a competitive basis. Educational fees are waived for graduate assistants.

Degree Requirements

The Ph.D. in the College of Business Administration requires a minimum of 69 course credit hours and a minimum of 6 dissertation credit hours beyond the baccalaureate degree. To ensure sufficient background for doctoral-level courses, students must demonstrate appropriate competence in quantitative reasoning, which is evidenced through completion of ECON 4105 and BUS AD 5000 or their equivalent. Students must also demonstrate appropriate competence in managerial communication, which is evident through completion of BUS AD 5100 or equivalent to be determined by the Ph.D. Coordinator.

Course Requirements

The Ph.D. in Business Administration has a common set of requirements in three areas: Business & Research Foundation (Section I), Supporting Field (Section II), and Other Requirements (Section IV). Requirements specific to the area of emphasis are in Section III.

I. Business & Research Foundation Requirement: 27 credit hours (9 courses)

Students are required to take: 1

INFSYS 5800 (p. 282)	Management Information Systems	3
LOG OM 5300 (p. 282)	Statistical Analysis For Management Decisions	3
BUS AD 5900 (p. 282)	Law, Ethics And Business	3
ACCTNG 5400 (p. 282)	Financial And Managerial Accounting	3
FINANCE 6500 (p. 282)	Financial Management	3
MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	3
MKTG 5700 (p. 282)	Contemporary Marketing Concepts	3
LOG OM 5320 (p. 282)	Production And Operations Management	3
BUS AD 7300 (p. 282)	Statistical Modeling	3
Total Hours		27

The first eight courses INFSYS 5800 (p. 282),LOG OM 5300 (p. 282), BUS AD 5900 (p. 282), ACCTNG 5400 (p. 282),FINANCE 6500 (p. 282), MGMT 5600 (p. 282), MKTG 5700 (p. 282), LOG OM 5320 (p. 282) will normally be waived if students had the courses as part of an UMSL MBA, MS in IS, or MAcc degree, or had equivalent graduate course work at an institution approved by the Graduate Business Programs Office and the Ph.D. Coordinator.

II. Supporting Field Requirement (9 credit hours)

Students must take 9 credit hours of graduate-level courses beyond foundation course work in a supporting field approved by the Ph.D. Coordinator. Supporting fields may include courses within or outside the College of Business Administration and are designed in consultation with the Ph.D. Coordinator.

III. Emphasis Area Requirements Logistics & Supply Chain Management (LSCM) Emphasis

The Logistics & Supply Chain Management emphasis requirement includes 33 credit hours.

Students are required to take the following six courses:

•	<u> </u>	
LOG OM 6330 (p. 282)	Business Logistics Systems	3
LOG OM 6350 (p. 282)	Management Science Methods	3
LOG OM 7381 (p. 282)	International Supply Chain Management	3
LOG OM 7390 (p. 282)	Research Seminar In LSCM	3
LOG OM 7393 (p. 282)	Special Topics In LSCM	3
MKTG 5770 (p. 282)	Supply Chain Management Strategy	3
And select at least	one of the following:	3-6
LOG OM 6331 (p. 282)	Logistics And Supply Chain Operational Modeling	
LOG OM 6332 (p. 282)	Logistics And Supply Chain Strategic Modeling	

Students are required to take nine credit hours (three courses) (not included elsewhere) from the list of approved elective courses for the LSCM emphasis.

Total Hours

IV. Other Requirements

- Upon completion of coursework, students are advanced to candidacy by successfully completing a comprehensive examination in their area of emphasis and a supporting field examination in their chosen area. Students admitted to the program with a relevant master's degree should pass the comprehensive examination and the supporting field examination within three years of admission to the Ph.D. program. Students admitted to the program with an undergraduate business degree should pass the comprehensive examination and the supporting field examination within four years of admission to the Ph.D. program. Students admitted to the program with an undergraduate degree outside of business should pass the comprehensive examination and the supporting field examination within five years of admission to the Ph.D. program. In these cases, prior coursework will be evaluated for equivalency to Section I course requirements. Exceptions may be made, contingent on approval by the Ph.D. Coordinator.
- Students will be evaluated annually for satisfactory progress. Students
 deemed not to be making adequate progress are subject to the policies
 of the College of Business Administration regarding continuation of their
 assistantship. Students deemed not to be making adequate progress

- are subject to the policies of the Graduate School and the College of Business Administration regarding probation and dismissal from the program.
- Students are required to take a minimum of 6 dissertation credit hours and to defend a dissertation proposal within one year of advancement to candidacy.
- The following requirements are to be completed before or after admission to candidacy:
 - Students are required to present one paper at a regional, national, or international conference.
 - Students are required to submit one paper, approved by his/her dissertation advisor, to a refereed journal.
- At least two semesters of supervised teaching in the College of Business Administration are required of all doctoral students.
- Students are required to demonstrate competency in teaching during the first year in which they teach in the College of Business Administration. This requirement may be met by successfully completing one or more courses.
- The degree is awarded upon successful completion and defense of the Ph.D. dissertation and satisfaction of all Graduate School requirements.
 The dissertation must be defended within three years of approval of a Ph.D. dissertation proposal.

Graduate Certificate Programs in Business Studies

The College of Business Administration offers five 18-hour graduate certificates. To be admitted to a graduate certificate program, students must meet the same requirements as those needed for a graduate degree program in business (see Admission Requirements in the Graduate Studies in Business Administration section of this Bulletin).

Certificate programs allow qualified graduate students to pursue an intensive course of study in a specialized business topic without requiring completion of a full graduate business degree program. Certificate programs provide students with the opportunity to obtain the advanced knowledge available through a graduate course of study in a relatively brief poried.

21-24 brief period.

In order to successfully complete a certificate program, students must earn a 3.0 cumulative GPA in certificate classes. Unless otherwise specified, the coursework must be completed within six years. Students must also comply with all requirements related to matters such as prerequisites, academic probation, and other graduate business program policies.

Graduate Certificate Program in Business Administration

This is an 18-hour program designed to accommodate individuals with an undergraduate/graduate degree in a non-business field seeking core business knowledge. The program emphasizes coursework designed to cover the major disciplines within the field of business. Upon completion, the student will have knowledge of common business theories, practices, and procedures.

To earn the certificate, students must complete six courses as prescribed below. All course prerequisites and all course waivers are applicable. Substitute courses may be approved by the appropriate department chairperson and the director of Graduate Studies in Business. In all cases, 18 hours are needed to complete the graduate certificate.

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Program Requirements		
ACCTNG 5400 (p. 282)	Financial And Managerial Accounting	3
MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	3
MKTG 5700 (p. 282)	Contemporary Marketing Concepts	3
INFSYS 5800 (p. 282)	Management Information Systems	3
Select one of the	following:	3
FINANCE 6500 (p. 282)	Financial Management	
LOG OM 5320 (p. 282)	Production And Operations Management	
Elective Course		3
Select one of the	following:	
BUS AD 5100 (p. 282)	Managerial Communication	
BUS AD 5900 (p. 282)	Law, Ethics And Business	
FINANCE 6500 (p. 282)	Financial Management ¹	
LOG OM 5320 (p. 282)	Production And Operations Management ¹	

Graduate Certificate in Business Intelligence

A certificate program in Business Intelligence. This program consists of a six-course sequence, comprising four required courses and two elective courses. Elective courses may be taken in either of two subtracks: Business Analytics or Systems Development. The list of courses is as follows:

Required Courses (12 hours)

Total Hours

INFSYS 6833 (p. 282)	Decision Support Systems for Business Intelligence	3
INFSYS 6849 (p. 282)	Data Warehouse Design and Implementation	3
INFSYS 6851 (p. 282)	Practicum in Business Intelligence	3
LOG OM 6345 (p. 282)	Business Analytics and Data Mining	3
Electives (any tw	o from either sub-track)	6
Analytics sub-track	κ:	
ACCTNG 5400 (p. 282)	Financial And Managerial Accounting	
ACCTNG 5401 (p. 282)	Financial Reporting And Analysis	
BUS AD 7300 (p. 282)	Statistical Modeling	
FINANCE 6521 (p. 282)	Financial Forensics: The Science of Derivatives	
FINANCE 6580 (p. 282)	International Financial Management	

	LOG OM 5312 (p. 282)	Advanced Statistical Methods For Management Decisions
	LOG OM 5320 (p. 282)	Production And Operations Management
	LOG OM 5322 (p. 282)	Lean Production
	LOG OM 5354 (p. 282)	Simulation For Managerial Decision Making
	LOG OM 6330 (p. 282)	Business Logistics Systems
	LOG OM 6331 (p. 282)	Logistics And Supply Chain Operational Modeling
	LOG OM 6332 (p. 282)	Logistics And Supply Chain Strategic Modeling
	LOG OM 6350 (p. 282)	Management Science Methods
	MGMT 5625 (p. 282)	Selected Topics In Human Resource Management
	MKTG 5740 (p. 282)	Marketing And Business Research
Sy	rstems Developr	ment sub-track
	INFSYS 6808 (p. 282)	Internet Programming For Business
	INFSYS 6837 (p. 282)	Information Systems Architecture
	INFSYS 6838 (p. 282)	Business Processes: Design, Management & Integration
	INFSYS 6840 (p. 282)	Information Systems Analysis
	INFSYS 6847 (p. 282)	Financial And Project Management
	INFSYS 6850 (p. 282)	Information Systems Design

LOC ON E212 Advanced Statistical Mathada For Management

Graduate Certificate in Human Resources Management

The Graduate Certificate in Human Resources Management is an 18-hour course of study designed to focus on the multidimensional aspects of personnel operations within business organizations. The course of study emphasizes both formal and informal aspects of human resources management.

Requirements

18

Students must complete the following six courses or appropriate substitutes if course waivers are appropriate:

MGMT 5600 (p. 282)	Organizational Behavior And Administrative Processes	3
MGMT 5621 (p. 282)	Managing Human Resources	3
MGMT 5622 (p. 282)	Union-Management Relations And Collective Bargaining	3
MGMT 5623	Compensation and Benefits	
MGMT 5625 (p. 282)	Selected Topics In Human Resource Management	3
Total Hours		12

MGMT 5600 (p. 282), MGMT 5621 (p. 282) and LOG OM 5300 (p. 282) may be waived with equivalent undergraduate courses. If a student is able to waive any or all of these three courses, substitute courses (approved by both the chairperson of the Management and the director of Graduate Studies in Business) will be provided. Substitute courses may include MGMT 5611 (p. 282), Advanced Organizational Behavior and Administrative Processes, or a course from outside the College of Business Administration. In all cases, 18 hours are needed to complete the Graduate Certificate in Human Resources Management.

Graduate Certificate in Logistics and Supply Chain Management

The Graduate Certificate in Logistics and Supply Chain Management is an 18-hour program designed to provide a focused, intensive study of important issues within logistics and, more broadly, in supply chain management. Three required courses provide thorough background in operations, logistics and supply chain management. Three elective courses allow specialization in areas such as logistics and supply chain software, international logistics, operations research, e-commerce, and quality. Students must complete the following six courses or approved substitutes if course waivers are appropriate:

Required Courses:

Total Hours

Required Courses.			
	OG OM 5320 (p. 32)	Production And Operations Management	3
	OG OM 6330 (p. 32)	Business Logistics Systems	3
	KTG 5770 (p. 32)	Supply Chain Management Strategy	3
Ni	ne additional h	ours (generally 3 courses) from:	9
	LOG OM 5312 (p. 282)	Advanced Statistical Methods For Management Decisions	
	LOG OM 5322 (p. 282)	Lean Production	
	LOG OM 5326 (p. 282)	Quality Management	
	LOG OM 5354 (p. 282)	Simulation For Managerial Decision Making	
	LOG OM 5381 (p. 282)	International Logistics And Operations Management	
	LOG OM 6331 (p. 282)	Logistics And Supply Chain Operational Modeling	
	LOG OM 6332 (p. 282)	Logistics And Supply Chain Strategic Modeling	
	LOG OM 6350 (p. 282)	Management Science Methods	
	INFSYS 6833 (p. 282)	Decision Support Systems for Business Intelligence	
	INFSYS 6835 (p. 282)	IT-Enabled Business	
	BUS AD 5198 (p. 282)	Seminar In Business Administration ¹	
	BUS AD 5299 (p. 282)	Individual Research ¹	

Subject to approval of the department chairperson of the LOM Area.

Substitute courses must be approved by the chairperson of the LOM Department and the director of Graduate Studies in Business. In all cases, 18 hours are needed to complete the Graduate Certificate in Logistics and Supply Chain Management.

Graduate Certificate in Marketing Management

The Graduate Certificate in Marketing Management is an 18#hour program designed to provide a focused intensive study of the marketing management activity within organizations. This program is designed to serve a broad group of marketing managers, including those with an interest in sales, brand management, promotion, and consumer behavior.

Requirements

Students must complete the following six courses or appropriate substitutes if course waivers are appropriate:

MKTG 5700 (p. 282)	Contemporary Marketing Concepts	3
MKTG 5710 (p. 282)	Consumer Motivation And Behavior	3
MKTG 5740 (p. 282)	Marketing And Business Research	3
Marketing Mana	gement:	
MKTG 5701 (p. 282)	Marketing Planning And Strategy	3
MKTG 5720 (p. 282)	Marketing Communications	3
MKTG 5730	Product Planning and Pricing ¹	3
Total Hours		18

This course will not be offered in 2013-2014. Contact department for more information

All course prerequisites and all course waivers are applicable. The Marketing department chairperson and the director of Graduate Studies in Business must approve substitute courses. In all cases, 18 hours (including at least 12 hours in Marketing) are needed to complete the certificate.

Accounting Courses

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ACCTNG 2400 Fundamentals Of Financial Accounting: 3 semester hours

Prerequisites: MATH 1030 and completion of 27 credit hours. MATH 1030 may be taken concurrently. This is a one semester course in financial accounting theory and practice. The primary emphasis is on the corporate financial statements of income, financial position and cash flow-their content and interpretation; and the impact of financial transactions upon them.

ACCTNG 2410 Managerial Accounting: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 2400. This is an advanced course that goes beyond the scope of a second-semester course in fundamentals of accounting. The development, interpretation, and use of relevant cost behavior, control, and traceability concepts for management planning, controlling and decision making are emphasized. Topics include: an introduction to product costing, the contribution concept, direct costing, performance standards and variance analysis, responsibility accounting, segment profitability, alternative choice decisions, and capital budgeting.

ACCTNG 3401 Financial Accounting And Reporting I: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA, MATH 1030, ACCTNG 2410, and 57 credit hours Review of the foundations of financial accounting theory and of the financial statement preparation process. Accounting theory and practice related to current assets (except for investments in securities). The course inlcudes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3402 Financial Accounting And Reporting II: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as investments in securities, operational assets, current and long-term liabilities, and leases. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3411 Cost Accounting: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. The study of the basic principles of cost determination for, and control of, manufacturing and distribution activities. Topics include job-order costing, process costing, cost allocations, and the development and use of standard costs within a system of absorption costing.

ACCTNG 3421 Accounting Information Systems: 3 semester hours
Prerequisites: Minimum campus GPA of 2.0. In addition, MATH 1030,
INFSYS 1800, ACCTNG 2410, and ACCTNG 3401. Examines the
fundamentals of accounting information systems, including hardware and
software considerations, internal controls, and transaction processing
cycles. Also focuses upon the development of efficient spreadsheets as
applied to financial and managerial accounting concepts.

ACCTNG 3441 Income Taxes: 3 semester hours

Prerequisites: MATH 1030 and ACCTNG 3401; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Fundamentals of Federal income taxation. Topics include taxable entities, income, deductions, tax accounting methods, tax basis, and property transactions at both the conceptual and operational levels.

ACCTNG 3445 I.R.S. Procedures and Federal Taxation of Estates, Gifts and Trusts: 3 semester hours

Prerequisites: MATH 1030 and either ACCTNG 3401 or FINANCE 3560; also a minimum campus GPA of 2.2 in all Accounting courses at the 3000-level and above taken at UM-St. Louis. The first topic includes the federal taxation of estates, gifts and trusts as they relate to wealth management. The second topic concerns interaction with the federal tax authorities. Topics may include preparing an audit protest, a request for an I.R.S. ruling, and a petition to the U.S. Tax Court.

ACCTNG 3451 Accounting For Governmental And Not-For-Profit Entities: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL; also MATH 1030 and ACCTNG 3401. Principles of fund accounting and financial reporting for governmental and nonprofit entities. This course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 3460 Accounting Career Strategies: 3 semester hours Prerequisites: ACCTNG 3401; minimum campus GPA of 2.0 and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This is a course in career and professional development. The primary emphasis is developing and executing a career strategy.

The primary emphasis is developing and executing a career strategy, enhancing business and client communication skills, and preparing for the transition to the accounting profession.

ACCTNG 3490 Internship In Accounting: 1-3 semester hours

Prerequisites: ACCTNG 3401, a minimum campus GPA of 2.0, a minimum GPA of 2.7 in all accounting courses at the 3000-level and above taken at UM-St. Louis, consent of supervising instructor and accounting internship coordinator. Students are employed in the field of Accounting where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. An accounting faculty member will monitor the student's program with the student providing a formal written report at the end of the project.

ACCTNG 3495 Special Administration Problems - Accounting (VITA) Program: 1-3 semester hours

Prerequisites: ACCTNG 2400, ACCTNG 2410 and ACCTNG 3401; minimum campus GPA of 2.0, minimum GPA of 2.2 in all accounting courses at the 2000-level and above taken at UMSL; completion of nine semester hours of accounting. Enrollment in the course is restricted to volunteer Income Tax Assistance (VITA) program student participants. The class offers practical tax experience, networking opportunities, potential managerial experience, and personal satisfaction derived from community service. It is taken on a satisfactory/unsatisfactory basis. The course offers one to three hours of undergraduate business elective credit and may be repeated for up to 3 hours credit.

ACCTNG 3498 Seminar in Accounting: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum campus GPA of 2.0 and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This course is a selected special topic in the field of accounting. May be repeated for credit with different topics.

ACCTNG 3499 Independent Study In Accounting: 1-3 semester hours

Prerequisites: Minimum campus GPA of 2.0, a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL and approval by the supervising professor and the department chair. Special individual study in accounting under the supervision of a full-time accounting faculty member.

ACCTNG 4401 Financial Accounting And Reporting III: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3402; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as income taxes, pensions, owners' equity, earnings per share, and the statement of cash flows. The course includes an emphasis on unstructured case problem solving skills, communication skills, and interpersonal skills.

ACCTNG 4402 Financial Accounting And Reporting IV: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3402; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Accounting theory and practice related to topics such as business conbinations, consolidated financial statements, multinational operations, foreign exchange transactions, and governmental and nonprofit organizations. The course includes an emphasis on unstructured problem solving skills, communication skills, and interpersonal skills.

ACCTNG 4405 Professional Accounting Research: 3 semester hours
Prerequisites: ACCTNG 4401; also a minimum campus GPA of 2.0 and
minimum GPA of 2.2 in all accounting courses at the 3000-level and above
taken at UM-St. Louis. Discussion of the research tools and methods
available to resolve questions concerning accounting standards and
practices. Critical analysis of topics of current interest and importance in
accounting practice is the focal point of the course.

ACCTNG 4435 Auditing: 3 semester hours

Prerequisites: MATH 1105; ACCTNG 3402; ACCTNG 3421 or INFSYS 3810; also a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. An introduction to auditing practice. Includes the social role of auditing and the services offered by auditors in internal, governmental, and public accounting practice. Emphasis is on the financial auditing process, including professional ethics, audit risk assessment, study and evaluation of internal control, gathering and evaluating audit evidence, and audit reporting decisions.

ACCTNG 4441 Advanced Federal Income Tax: Tax Research And Business Taxation: 3 semester hours

Prerequisites: ACCTNG 3441 with a grade of B or above; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UM-St. Louis. Uses internet-based tax research service to conduct research that resolves tax law questions. Also, focuses on federal income taxation of corporations, S corporations, partnerships, LLCs and their owners.

ACCTNG 5400 Financial And Managerial Accounting: 3 semester hours

This course provides an introduction to accounting, with emphasis on preparation of financial statements for external parties (financial accounting) and accumulation of cost information to aid internal planning and control (managerial accounting). Topics covered include measurement of assets and liabilities, revenues and expenses, the accounting cycle, financial statements, cost terminology, cost behavior, product costing, and relevant costs for decision making. This course provides the necessary background for ACCTNG 5401.

ACCTNG 5401 Financial Reporting And Analysis: 3 semester hours

Prerequisites: ACCTNG 5400 or the equivalent. This course builds on the foundations covered in ACCTNG 5400, emphasizing in-depth analysis of published financial statements. The course begins with discussion of the role of financial accounting information in capital markets and contracting, and continues with examination of a number of specific accounting issues. Students are encouraged to look behind the numbers to better understand the economics of the underlying transactions, and properly interpret what the reported numbers mean about a firm's future prospects.

ACCTNG 5402 Professional Accounting Research: 3 semester hours

Prerequisites: ACCTNG 4401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. Discussion of the research tools and methods available to resolve questions concerning accounting standards and practices. Critical analysis of topics of current interest and importance in accounting practice.

ACCTNG 5403 Seminar In Financial Accounting: 3 semester hours Prerequisites: ACCTNG 4401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of current financial reporting issues. Analysis of current problems and approaches pertaining to the communication of corporate financial information to the U.S. and international investment communities.

ACCTNG 5404 Professional Accountancy I: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 2410; a minimum 2.0 campus GPA; graduate standing. This is the first professional-level course in financial reporting. The course includes a study of the conceptual framework underlying Generally Accepted Accounting Principles (GAAP) and issues pertaining to accounting for current assets and liabilities.

ACCTNG 5405 Professional Accountancy II: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in II accounting courses at the 3000-level and above taken at UMSL; graduate standing. This is the second professional-level course in financial reporting. The course includes an in-depth study of issues pertaining to accounting for operational assets, liabilities and owners equity.

ACCTNG 5406 Research and Professional Writing in Accounting: 3 semester hours

Prerequisites: Completion of ACCTNG 4401 and enrollment in Master of Accounting Program.. This course employs the professional accounting literature and authoritative databases to analyze contemporary issues in accounting. Students will refine their communication skills in preparation for leadership roles in the accounting profession.

ACCTNG 5408 Fraud Examination: 3 semester hours

Prerequisites: ACCTNG 3402 or ACCTNG 5405; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. This course is designed for graduate students who are interested in fraud and its effects. Students will be introduced to theoretical concepts of fraud and practical responses to it. Course coverage includes an overview of the fraud problem; prevention and detection of fraud; elements of fraud investigation, interview techniques, fraud types, and laws governing the prosecution of fraud cases.

ACCTNG 5411 Cost Systems Analysis: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting coursesat the 3000-level and above taken at UMSL; graduate standing. The development, interpretation, and use of accounting reports and supplementary information for management planning, control and decision making. Emphasizes the application of relevant cost behavior, control and traceability concepts in the preparation of internal accounting reports, with a secondary emphasis upon product costing techniques as appropriate to financial accounting needs. Topics include break-even analysis, operational budgeting, direct costing, absorption costing, standard costs and variance analysis, business segment analysis, responsibility accounting distribution cost accounting, and gross profit analysis.

ACCTNG 5412 Seminar in Controllership: 3 semester hours

Prerequisite: ACCTNG 3411 or ACCTNG 5411; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of advanced managerial accounting techniques useful in facilitating the planning and control process in the modern organization. Emphasis on the implementation and administration of these techniques, their integration with management information systems, and the organizational role of the corporate accountant.

ACCTNG 5421 Information Systems in Accounting: 3 semester hours
Prerequisites: MATH 1030; INFSYS 1800; ACCTNG 2410; ACCTNG
3401; a minimum campus GPA of 2.0; graduate standing. This is a
professional-level course in accounting information systems. The course
includes examination of transaction cycles, structured analysis and design

of accounting information systems, and internal controls. ACCTNG 5435 Seminar In Auditing: 3 semester hours

Prerequisite: ACCTNG 4435; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of advanced auditing and attestation issues, with an emphasis on operational auditing. Topics include professional ethics, risk analysis, internal control, fraud detection, analytical procedures, determining and assessing operational objectives, and reporting and implementing audit findings.

ACCTNG 5436 Systems Auditing: 3 semester hours

Prerequisite: ACCTNG 5400, INFSYS 6800 or consent of instructor. Study of techniques involved in the control and audit of computer-based systems. Emphasis on the review of internal controls at operational and administrative levels and on computer-assissted audit techniques.

ACCTNG 5446 Advanced Topics in Taxation: 3 semester hoursPrerequisites: ACCTNG 3441. Address advanced topics in taxation selected by the instructor.

ACCTNG 5447 Taxation of Individuals and Businesses: 3 semester hours

Prerequisites: MATH 1030; ACCTNG 3401; a minimum campus GPA of 2.0; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL; graduate standing. This is the first professional-level course in taxation. The course includes a general introduction to the concepts of taxation. It will enable students to understand the role of taxes in evaluating decisions typically confronted by individual taxpayers and businesses.

ACCTNG 5451 Accounting and Auditing in Governmental and Notfor-Profit Entities: 3 semester hours

Prerequisite:ACCTNG 3401 and graduate standing; a minimum campus GPA of 2.0 and minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. A study of accounting for use in the public sector and in not-for-profit organizations. Principles of fund accounting and financial reporting for governmental and not-for-profit entities, as well as auditing in the public sector.

ACCTNG 5480 International Accounting: 3 semester hours

Same as INTL BUS 5480. Prerequisites: ACCTNG 3402. Accounting practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting standards, and managerial accounting practices related to multinational operations.

ACCTNG 5490 Graduate Internship in Accounting: 1-3 semester hours

Prerequisites: ACCTNG 3401 or ACCTNG 5404; a minimum graduate GPA of 3.0; a minimum GPA of 3.0 in all accounting courses at the 3000-level and above taken at UMSL; consent of supervising instructor and accounting internship coordinator. The student works in an accounting internship that contains sufficient content and rigor to merit graduate credit. The student's program will be monitored by a member of the Graduate Faculty in Accounting. The course requires several meetings with the faculty advisor and a graduate-level written assignment. The course will be graded on a Satisfactory/Unsatisfactory basis. A student who has previously taken ACCTNG 3490 may not take ACCTNG 5490.

ACCTNG 5491 Contemporary Issues In Accountancy: 3 semester hours

Prerequisites: ACCTNG 5405 or ACCTNG 3402. This course includes an analysis of contemporary developments in the practice of accountancy or theories underlying it. This course may address topics in accountancy in any area of specialization (financial, cost/managerial, tax, auditing, governmental/NFP) or may examine topics that affect the profession as a whole. Topics will vary. May be repeated for credit when topics are different.

ACCTNG 5498 Graduate Seminar in Accounting: 3 semester hours

Prerequisites: To be determined each time the course is offered and to include a minimum 2.0 overall GPA and a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL. Study of selected special problems in accounting. May be repeated for credit with different topics.

ACCTNG 5499 Individual Research in Accounting: 1-3 semester hours

Prerequisites: Consent of instructor, department chair and graduate director; a minimum 3.0 graduate GPA; a minimum GPA of 3.0 in all accounting courses at the 3000-level and above taken at UMSL. Special individual research topics in Accounting under the guidance of a specific professor.

ACCTNG 6441 Seminar In Taxation: 3 semester hours

Prerequisite: At least a B in ACCTNG 3441 or ACCTNG 5447; a minimum GPA of 2.3 in all accounting courses at the 3000-level and above taken at UMSL.. Addresses tax policy topics drawing on literature from accounting, economics, and public finance. Other topics of current interest will be selected by the instructor.

Business Administration Courses

BUS AD 1000 Introduction to Business: 3 semester hours

Overview of the functional business disciplines, including, but not limited to principles of Accounting, Finance, Information systems, Law, Logistics and Operations Management, Management, and Marketing.

BUS AD 1900 Introduction to Personal Law: 3 semester hours

This course introduces students to the American legal system and the basic issues every individual must deal with in our society. The course will be of interest to anyone seeking a job, leasing an apartment, buying a car or house, borrowing money, buying insurance, getting married or divorced, entering contracts, filing a law suit, writing a will, or accumulating wealth. May not be used for credit in any undergraduate business program.

BUS AD 2000 Topics In Business Administration: 1-3 semester hours

Prerequisites: Vary with topic; contact the School of Business Administration. Study of selected special problems in business and administration. May be repeated for credit with different topics.

BUS AD 2900 Legal Environment Of Business: 3 semester hours

Prerequisites: Sophomore Standing. An introduction to the nature and meaning of law, sources of law, legal process and institutions. The legal environment of business is defined as: the attitude of the government toward business, the historical development of this attitude; current trends of public control in taxation, regulation of commerce and competition; freedom of contract, antitrust legislation and its relationship to marketing, mergers and acquisitions; and labor management relations.

BUS AD 3090 Internship In Business Administration: 1-3 semester hours

Prerequisites: Minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 hours of Business Administration electives and have consent of supervising instructor and Associate Dean. College of Business GPA of at least 2.5 is also required. Students are employed in the field of Business Administration where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. A Business Administration faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BUS AD 3090 may not be counted toward the minimum credit hours for any emphasis area.

BUS AD 3099 Independent Study In Business Administration: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the associate dean. Special individual study in business under the supervision of a full-time faculty member.

BUS AD 3198 Business Administration Seminar: 1-10 semester hours Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall gpa.

BUS AD 3900 Business Law: Contracts, Sales, Secured Transactions, Bankruptcy: 3 semester hours

Prerequisite: BUS AD 2900, or consent of instructor. Introduction to the laws of contracts, sales, secured transactions, bankruptcy, and other selected topics.

BUS AD 3901 Business Law:Negotiable Instruments, Business Organ., Property: 3 semester hours

Prerequisites: ACCTNG 2400, ECON 1001, and a 2.0 overall GPA or Junior Standing and a 2.0 overall GPA. Introduction to the laws of negotiable instruments, the principal-agent relationship, partnerships, corporations, property, and other selected topics.

BUS AD 3990 Internship In Business Law: 1-3 semester hours

Prerequisites: BUS AD 2900, 3 credit hours of Business Law electives, and a Business College 2.5 GPA. Must have completed and/or be currently enrolled in at least 3 credit hour of Business Law electives and have consent of supervising instructor and Area Coordinator. Students are employed in the field of Business Law where the knowledge and skills learned in the classroom are applied. Professional development and obtaining specialized work experience are primary goals. A Business Law faculty member will monitor the student's program with the student providing a formal written report at the end of the project.

BUS AD 3999 Independent Study In Legal Studies: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in legal studies under the supervision of a full-time legal studies faculty member.

BUS AD 4198 Business Administration Senior Seminar: 1-10 semester hours

Prerequisites: To be determined each time the course is offered and to include minimum 2.0 campus GPA. An intensive study of a specific area of business administration, of some specific business or economic phenomenon, or a specific problem or theory. Several different courses may be offered under this course number. May be repeated for credit as long as the topic differs.

BUS AD 5000 Economics For Managers: 3 semester hours

Prerequisites: none The first portion of this course introduces microeconomic analysis of consumers, firms, and government. The concepts and tools of economic analysis are applied to the production and distribution functions of organizations. The last portion is devoted to the macroeconomic influence of capital markets, the influence of interest rates, inflation, and the business cycle.

BUS AD 5001 Managerial Economic Analysis: 3 semester hoursPrerequisites: BUS AD 5000 or ECON 1001 and ECON 1002. Microeconomic analysis of consumers, firms, and government. The concepts and mathematical tools of economic analysis are applied to the

BUS AD 5002 Analysis Of National Economic Environment: 3 semester hours

production and distribution functions of organizations.

Prerequisites: BUS AD 5000 or ECON 1001 and ECON 1002. The character and functioning of the national economic system; analyzing and forecasting fluctuations in national income and product, employment, and prices; the influence of monetary and fiscal policies. Emphasis is on the acquisition of knowledge concerning forces affecting all business firms.

BUS AD 5100 Managerial Communication: 3 semester hours

An analysis of business writing and speaking, and the communication conventions common in organizations. Emphasis is placed on developing skills critical to career advancement and necessary for effective organizational functioning. A second goal is to prepare students for assignments in other business courses. This course must be taken within the first 12 credit hours of study, preferably in the student's first semester.

BUS AD 5198 Seminar In Business Administration: 3 semester hoursAn intensive study of a specific area of business administration of some specific business or economic phenomenon, or a specific problem or theory. Several different courses may be offered under this course number.

BUS AD 5299 Individual Research: 1-3 semester hours

Prerequisite: Consent of instructor and graduate director Special individual research topics under the guidance of a specific professor.

BUS AD 5442 Taxation Of Estates, Gifts And Trusts: 3 semester hours

Prerequisite: ACCTNG 3441 And ACCTNG 5441 or Consent of Instructor. Consideration of the transfer tax system in general; the elements of the gross estate (includible versus nonincludible property), deductions (including the marital deduction) and credits; the gift tax and what it embraces; basic estate planning considerations; and income taxation of grantor and nongrantor trusts.

BUS AD 5443 Taxation Of Corporations And Shareholders: 3 semester hours

Prerequisite: ACCTNG 3441 and ACCTNG 5441 or consent of the instructor. Addresses tax aspects of the formation, operation, and liquidation of a corporation as well as in the corporate structure through division or reorganization. Topics include establishment of the corporate structure, distributions to shareholders, and stock dividends and redemptions.

BUS AD 5444 Taxation Of Partnerships And Partners: 3 semester hours

Prerequisites: BUS AD 3441 and ACCTNG 5441 cr consent of instructor. Addresses tax aspects of the formation, operation and termination of a partnership. Topics include special allocations and disposition of a partnership interest. Compares partnerships with subchapter and S corporations.

BUS AD 5445 Tax Practice And Procedure: 3 semester hours

Prerequisite: Ba 3441 Or Consent Of Instructor. Addresses The Audit Process; Practice Before The Internal Revenue Service; Administrative Appeals; The Notice Of Deficiency; Waivers And Extensions; Amended Returns And Claims For Refund; Statute Of Limitations On Deficiencies And Over-Payments; And Taxpayer And Tax Return Preparer Penalties.

BUS AD 5450 Governmental Budgeting And Financial Control: 3 semester hours

Prerequisite: ACCTNG 5440. A study of municipal and federal financial control and budgeting procedures with emphasis on public policy. The impact of financial control on top management decisions and the effect of budget strategies on the allocations of public funds.

BUS AD 5900 Law, Ethics And Business: 3 semester hours

Analysis of the relationship between law and business with emphasis on the ability of, and extent to which, governments regulate business activities. Topics covered include the employer-employee relationship, protection of consumers, antitrust regulation, and securities law. Also discussed are ethical issues confronting management of the modern business enterprises.

BUS AD 6990 Strategy Formulation And Implementation: 3 semester hours

Prerequisites: FINANCE 6500, MGMT 5600, MKTG 5700, LOG OM 5320 and special consent. Graduate program capstone course examining concepts and methods that integrate functional areas of business. The perspective is that of general management charged with directing the total enterprise. Interactions between the environment, organization, strategy, policies and the implementation of plans are explored. Special emphasis is given to globalization of business and ethical perspectives. This course should be taken during the semester prior to graduation. In no case may it be taken sooner than two semesters prior to graduation.

BUS AD 7001 Doctoral Research: 1-12 semester hours

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval Investigation of an advanced nature culminating in preparation for comprehensive examinations and/or development of dissertation proposal. The course may be repeated for credit.

BUS AD 7002 Dissertation Research: 1-12 semester hours

Prerequisites: Must have Ph.D. Program Director or Area Coordinator approval. Investigation of an advanced nature culminating preparation of a doctoral dissertation. The course may be repeated.

BUS AD 7021 Qualitative Methods And Philosophical Foundations Of BA Research: 3 semester hours

Prerequisites: Admittance into the Ph.D. Program This course investigates the ontology and epistemology of business administration research, particularly as they pertain to qualitative research methods, such as case studies, action research, and ethnomethodology.

BUS AD 7300 Statistical Modeling: 3 semester hours

Prerequisites: LOG OM 5300; Admittance into the Ph.D. Program. Study of multivariate analytical techniques and their application to the analysis of business systems. Topics include the construction and adaptation of statistical models and extrapolative techniques to accommodate factor interactions, nonlinearities, and periodic effects. Methodologies include multiple regression, ANOVA, and general linear model, MANOVA, structural equation modeling, and time series modeling.

Finance Courses

FINANCE 1590 Personal Finance For Nonbusiness Majors: 3 semester hours

For future professionals who want to learn more about personal finance and how to better manage their resources. The topics include purchasing/ leasing cars, home acquisitions, investing in stocks and bonds, mutual funds, retirement planning and health and life insurance. Special emphasis will be on the nontechnical aspects of these issues. Cannot be used for credit in BSBA program.

FINANCE 3500 Financial Management: 3 semester hours

Prerequisites: ECON 1002, MATH 1105, and ACCTNG 2400 and a 2.0 overall gpa. The study of a firm's need for funds; the institutions, instruments and markets concerned with raising funds; and the techniques of analysis used to determine how effectively these funds, once raised, are invested within the firm.

FINANCE 3501 Financial Policies: 3 semester hours

Prerequisite: FINANCE 3500 and a 2.0 overall GPA. The intensification and application of the concepts developed in FINANCE 3500. Special emphasis is given to the development of top management policies and their application toward complex problems of finance. Techniques for identifying and dealing with these problems before they become acute will be investigated. Cases will be integrated with appropriate outside reading.

FINANCE 3502 Treasury Management: 3 semester hours

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. The focus of this course is on the role cash management plays in corporate finance. Topics include cash collection and payment systems, forecasting cash flows, electronic fund transfers, check processing, international cash management and managing bank relationships. Students passing the course with a grade of A or B are permitted to take the qualifying exam to become a Certified Cash Manager (CCM) under a special arrangement with the Treasury Management Association. Along with other finance courses, this class prepares students for careers in the Treasury Departments of major companies or with service providers like banks.

FINANCE 3503 Computer Applications In Finance: 3 semester hours

Prerequisite: INFSYS 1800, FINANCE 3500, one 3000-level finance course and a 2.0 overall GPA. Financial problem solving and applications on the micro-computer . A project oriented course with an emphasis on micro based finance projects: Present value/IRR analysis, duration, immunization, portfolio optimization, leasing, capital budgeting, financial forecasting, options and futures.

FINANCE 3520 Investments: 3 semester hours

Prerequisite: FINANCE 3500 and a 2.0 overall GPA. Financial analysis of debt and equity instruments available on organized exchanges and in less tangible "over the counter" markets. Techniques of such analysis being presented in context with economic and management circumstances within the company, industry and economy.

FINANCE 3521 Financial Engineering: Applying Derivatives: 3 semester hours

Prerequisites: FINANCE 3500. Students engage in a comprehensive investigation of advanced risk management techniques. Futures, forwards, options and synthetic securities are explored to determine their effectiveness in generating the desired risk exposure. A comprehensive study of speculative market conditions and characteristics are assessed in conjunction with a variety of financial innovations. Valuation techniques and hedging theories are combined with mathematical models to determine their effectiveness in practical situations. Special topics are introduced as market conditions dictate. It is recommended that students take Investments (FINANCE 3520) prior to enrolling in FINANCE 3521.

FINANCE 3523 Fixed Income Analysis: 3 semester hours

Prerequisites: FINANCE 3500. This course explores key issues in fixed income securities. The topics include pricing of bonds, measuring bond yields, bond price volatility, factors affecting yields and the term structure of interest rates, treasury securities, corporate debt instruments, residential mortgage loans, collateralized mortgage/debt obligation, and analysis of bonds with embedded options. The course prepares students for the CFA exams of Level 1 in the area of fixed income analysis.

FINANCE 3525 Practicum In Investments: 1 semester hour

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. Students will apply their knowledge of stocks and bonds by managing a real dollar portfolio of securities. This course requires that students perform technical and fundamental analysis, prepare research reports, present proposals and participate in group investment decisions. The University's Student Investment Trust provides the money for students to invest. Course may be repeated for credit up to a maximum of 3 credit hours.

FINANCE 3540 Introduction to Financial Institutions and Financial Markets: 3 semester hours

Prerequisite: FINANCE 3500 And A 2.0 Overall GPA. The course surveys financial institutions and financial markets and addresses the interplay between institutions and markets. State and federal regulation of institutions and markets is explored. A portion of the course addresses current events, managerial policy issues, and regulatory issues in financial services and markets. Focus is primarily U.S. institutions and markets, but the evolving impact of globalization and importance of the Foreign Exchange Market on U. S. financial institutions are developed.

FINANCE 3541 Commercial Bank Management: 3 semester hours

Prerequisites: ECON 1002, FINANCE 3500 and a 2.0 overall GPA. Corporate finance and microeconomics are applied to matters of importance to commercial bankers. Among the subjects treated are bankasset portfolio construction, lending policies, liabilities management, bank capital structure, short-run cash management, financial market rates and flows, and quantitative models for bank management. Commerical bank management is analyzed from an internal viewpoint in terms of what bank managers should look for in asset management and why; what market conditions they should be aware of; and what techniques they can use to meet changing economic and financial conditions.

FINANCE 3542 Principles Of Real Estate: 3 semester hours

Prerequisites: BUS AD 3500 and a 2.0 campus GPA. As an introduction to the real estate industry, the course broadly explores all phases of acquisition, development and disposal of real property. Topics include legal requirements of contracts, property rights, valuation and appraisal techniques, marketing, brokerage operations and practices, mortgage financing, leasing and property management.

FINANCE 3560 Practice Of Personal Financial Planning: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator. Professional financial planning requires broad knowledge of investments, insurance, income taxation, retirement planning, and estate planning, as well as certification requirements and legal/ethical issues. This course introduces students to the field of financial planning, and provides an integrated overview of the topics listed above. Students interested in the Financial Planning track are encouraged to complete this course prior to taking other courses in the track.

FINANCE 3561 Principles Of Insurance: 3 semester hours

Prerequisites: FINANCE 3500 and a 2.0 campus GPA. This is a survey course intended to introduce students to the basic concepts of insurance. Topics include the nature of risks, types of insurance carriers and markets, insurance contracts and policies, property and casualty coverages, life and health insurance, and government regulations. The functions of underwriting, setting premiums, risk analysis, loss prevention, and financial administration of carriers are emphasized.

FINANCE 3562 Life Insurance And Employee Benefits: 3 semester hours

Prerequisites: FINANCE 3500 or equivalent and a minimum campus GPA of 2.0 This course explores the life insurance business from the perspective of both the consumer and provider. Coverage will include an analysis of the various types of life insurance products, aspects of life insurance evaluation, reinsurance, underwriting, and uses of life insurance in financial planning. Also included is an examination of the tax, legal, and ethical requirements.

FINANCE 3563 Retirement Planning And Employee Benefits: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator The course is designed to give students an understanding of the retirement planning process. Students will gain an appreciation of the usefulness (and shortcomings) of employee benefits and develop an ability to counsel others on important retirement and employee benefit decisions. Corporate pension and profit sharing plans, self-employed Keough plans, IRA's, annuities, health insurance, and social security will be discussed.

FINANCE 3564 Estate Planning And Trusts: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; FINANCE 3500 or consent of instructor and Area Coordinator This course will focus on the responsibility of a financial planner in the formulation and implementation of an estate plan. Topics include wills, lifetime transfers, trusts, gifts, estate reduction techniques, tax implications in estate planning, business and inter-family transfers, dealing with incompetency, postmortem techniques, and the role of fiduciaries. Lectures, cases, and guest speakers will be used to stimulate analysis and discussion.

FINANCE 3565 Seminar in Financial Planning: 3 semester hours Prerequisites: ACCTNG 3441, FINANCE 3520, FINANCE 3560, FINANCE 3561, FINANCE 3563, and FINANCE 3564; a minimum campus GPA of 2.0; or permission of instructor. This course serves as the capstone in the registered Financial Planning curriculum. Students will prepare and present comprehensive, professional-level personal financial plans. This course is required by the Certified Financial Planner Board of Standards for those who wish to sit for the Certified Financial Planner examination.

FINANCE 3580 International Corporate Finance: 3 semester hours

Same as INTL BUS 3580. Prerequisites: FINANCE 3500 and a 2.0 campus GPA. This course explores corporate finance in the context of a global environment. Financial managers for an international firm must deal with all the normal problems faced by domestic corporations plus additional foreign exchange and political risks. Class discussions will focus on applying financial techniques to decision making in foreign operations. Students are required to work in a group to undertake a project related to international finance.

FINANCE 3582 International Investments: 3 semester hours

Same as INTL BUS 3582. Prerequisites: FINANCE 3500. This course explores the concepts of investing and hedging risk management, portfolio diversification, currency risk, asset pricing, and alternative portfolio strategies. Techniques for using derivatives are discussed in the context of hedging exchange rate risk. Reading foreign exchange quotes and understanding the functioning of global markets is central to the course. A prior course in investments is recommended but not required.

FINANCE 3590 Internship In Finance: 1-3 semester hours

Prerequisite: a minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of finance electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience in a Track area are the primary goals. The student's program will be monitored by a finance faculty member with the student providing a formal written report at the end of the project. FINANCE 3590 may not be counted toward the minimum 15 credit hours of finance electives for a finance emphasis.

FINANCE 3595 Special Administration Problems - Finance: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

FINANCE 3598 Seminar in Finance: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of finance. May be repeated for credit with different topics.

FINANCE 3599 Independent Study In Finance: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in finance under the supervision of a full-time finance faculty member.

FINANCE 5599 Individual Research in Finance: 1-3 semester hours

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Finance under the guidance of a specific professor.

FINANCE 6500 Financial Management: 3 semester hours

Prerequisites: ACCTNG 5440 or ACCTNG 2400, LOG OM 5300 or LOG OM 3300, and BUS AD 5000 or ECON 1001 and ECON 1002. This course provides an in-depth analysis of corporate finance including asset pricing, risk and return, short- and long-term investment decisions, capital structure choices, dividend policy, derivatives, mergers and acquisitions, and a host of other current topics. The material is taught through lectures and problem solving.

FINANCE 6501 Advanced Financial Management: 3 semester hours

Prerequisite: FINANCE 6500 and LOG OM 5300. Exposure to recent financial management theory through selected readings. Financial management problems are considered by the use of cases and simulation models. An original research project under the supervision of instructor is required.

FINANCE 6520 Security Analysis: 3 semester hours

Prerequisite: FINANCE 6500 and LOG OM 5300 An in-depth study of techniques used in evaluating various financial assets as investment opportunities. Financial assets studied include common stock, preferred stock, and fixed income securities. Other related topics such as sources of investment information and current market trends are discussed.

FINANCE 6521 Financial Forensics: The Science of Derivatives: 3 semester hours

Prerequisites: FINANCE 6500. Students engage in a comprehensive investigation of advanced risk management techniques. Futures, forwards, options and synthetic securities are explored to determine their effectiveness in generating the desired risk exposure. A comprehensive study of speculative market conditions and characteristics are assessed in conjunction with a variety of financial innovations. Valuation techniques and hedging theories are combined with mathematical models to determine their effectiveness in practical situations. Special topics are introduced as market conditions dictate. It is recommended that students take Investments (FINANCE 6520) prior to enrolling in FINANCE 6521.

FINANCE 6540 Financial Institutions and Financial Markets: 3 semester hours

Prerequisite: Graduate Status and FINANCE 6500. By lecture and casework, the course surveys markets (Money Market, Capital Markets, Foreign Exchange) and various forms of financial institutions. Historical and evolving business models of financial institutions are explored in the context of regulation, economics, and competition. Interplay between institutions and markets is addressed. Structure and purpose of regulation is examined. A portion of the course involves current events and managerial policy issues in financial services. A major U.S. financial institution is selected and case analyzed by the class. Focus is U.S. institutions and markets, but impact of globalization is discussed.

FINANCE 6541 Commercial Bank Management: 3 semester hours

Prerequisite: FINANCE 6500. This course explores the various bank management techniques required to manage a modern commercial bank in a rapidly changing environment. Topics include asset and liability management, capital adequacy, bank holding companies, profitability , and bank market structure and regulation.

FINANCE 6542 Real Estate: 3 semester hours

Prerequisite: FINANCE 6500 This course provides a broad introduction to real estate with a focus on legal issues, market analysis, valuation, financing, leasing and investment decisions. Classes are conducted in a in a standard lecture format with dicussion on current topics. No prior knowledge of the industry is required.

FINANCE 6580 International Financial Management: 3 semester hours

Same as INTL BUS 6581. Prerequisite: FINANCE 6500. The objective of this course is to introduce students to financial issues for multinational firms. Besides covering basic tools and techniques, the class stresses the role of the financial manager in analysis and decision-making. Topics include the impact of international accounting and tax issues, capital budgeting in a foreign environment, transfer pricing, and global funding. Conceptual skills for lifelong learning experiences are emphasized. This course emplys a lecture and case format with group discussions.

FINANCE 6581 Seminar In International Investments: 3 semester hours

Same as INTL BUS 6581. Prerequisite: FINANCE 6500 This course covers topics related to the determination of exchange rates, international parity relations and portfolio diversification. In addition, methods for using foreign exchange derivatives are explored in their use for hedging exchange rate risk. Learning to read foreign exchange quotes and understanding the functioning of global markets is an integral part of the course material. Each student is assigned a foreign country to study throughout the semester with the comprehensive project report. A prior investments course is recommended but not required.

FINANCE 6590 Seminar In Finance: 3 semester hours

Prerequisites: FINANCE 6500 This course incorporates a wide range of advanced topics in finance including, but not limited to, an evaluation of various financial assets as investment opportunities, trends in capital markets, derivatives and management of financial and non-financial firms.

FINANCE 6591 Finance Internship: 1-3 semester hours

Prerequisites: Students must have completed and/or be enrolled in at least 6 credit hours of finance electives and have consent of supervising faculty member and Area Coordinator Students work in the field of finance where they apply the knowledge and skills learned in the classroom. Professional development and obtaining sopecialized work experience are the primary goals. The student's program will be monitored by a finance faculty member with the student providing a formal written report at the end of the project.

Information Systems Courses

INFSYS 1012 Learning to Program Using Virtual Words: 3 semester hours

Introduces modern programming principles without requiring the knowledge of a traditional programming language. Instead, this course utilizes a novel graphical approach that enables the student to create, populate, and manipulate virtual 3-dimensional worlds which resemble video games. The development of these worlds allows students to gain direct experience and skills in using computers to solve problems. Students will create worlds of varying complexity.

INFSYS 1800 Computers And Information Systems: 3 semester hours

This course covers the basic concepts of networked computers including the basics of file management on local and remote computers, electronic mail, Internet browsers, and web page development. Students are also exposed to applications used in business for solving problems, communicating, and making informed decisions, including word processors, presentation software, and electronic spreadsheets. Students will also develop business applications using a popular programming language or database management tool. Credit cannot be granted for both CMP SCI 1010 and BUS AD 1800.

INFSYS 2800 Information Systems Concepts And Applications: 3 semester hours

Prerequisites: INFSYS 1800 or satisfactory performance on proficiency exam. Course covers concepts of information systems as they relate to business functions, including web page design and e-commerce, telecommunications, systems analysis and design, ethics of information system design and use, information security, foundations of database systems and integrated business information systems. Students will also gain valuable strategies for career development, contact management, and networking.

INFSYS 3806 Managerial Applications Of Object-Oriented Programming I: 3 semester hours

Prerequisites: INFSYS 1800 or CMP SCI 1250, and a 2.0 overall GPA. The course provides a study of the UNIX operating system and the C++ programming language as they pertain to managerial applications. In addition, the course will introduce the use of object-oriented programming methodologies.

INFSYS 3807 Legacy Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. Structured COBOL programming techniques for business applications are presented. Included are report generation, control breaks, output editing, debugging, tables, sort concepts, job control language, utilities, partitioned data sets, and updating of files.

INFSYS 3810 Information Systems Analysis: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806 or permission of instructor. Aspects and methods for managing the computer and information resources of organizations. Topics include: project management, aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of systems, facility management, purchase decisions, software acquisition, software metrics, security issues, and economic evaluation, as they relate to information resources. Special cases of systems, such as Enterprise Resource Planning (EPR) systems, Supply Chain Systems, and BPO will be discussed.

INFSYS 3815 Object Oriented Applications In Business: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. Object Oriented programming techniques for business applications are presented. The topics are implemented in a C++ environment.

INFSYS 3816 Managerial Application Of Object-Oriented Programming II: 3 semester hours

Prerequisites: INFSYS 3806 and a minimum overall GPA of 2.0. This course expands object-oriented skills taught in INFSYS 3806. The emphasis in this course is on object-oriented development tools and development in a client-server environment. The data management tools will include the use of SQL to access serverbased databases.

INFSYS 3841 Enterprise Information Systems: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. Aspects and methods for managing the computer and information resources of organizations. Topics include: aligning IS plans with corporate plans, MIS organizational structures, demonstrating the value of MIS to senior management, facility management, purchase decisions, software acquisition, software metrics, project management, security issues, and economic evaluation, as they relate to information resources.

INFSYS 3842 Management Of Telecommunications: 3 semester hours

Prerequisites: INFSYS 1800 and a 2.0 overall gpa. The technical and managerial aspects of telecommunications as they apply to the business environment are discussed. Issues include: communications components and services, local area network architecture, managerial implimentations, organizational issues, and cost/benefits analyses.

INFSYS 3843 Decision Support Systems for Business Intelligence: 3 semester hours

Prerequisites: LOG OM 3300 and a minimum campus GPA of 2.0 Applications of intelligent decision support systems to support business intelligence are explored. DSS component design in response to decision making and business intelligence needs are discussed.

INFSYS 3844 Developing Business Applications In NET: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 3806. This Course will enable students to design, implement, and debug object-oriented and data driven business applications in Visual Basic.NET. Students will learn application design choices, object-oriented design principles, event-driven programming, user interface programming using Windows Forms and user interface controls, data binding and database access using ADO.NET, exception handling, debugging and effective ways of working with Visual Studio.NET.

INFSYS 3845 Database Management Systems: 3 semester hours
Prerequisites: INFSYS 2800 and a minimum campus GPA of 2.0. This
course provides an introduction to the design and use of databases in
meeting business information needs. Topics include database planning,
conceptual design, and data administration. The concepts are studied with
projects involving the use of a current database management system.

INFSYS 3846 E-Commerce: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. This course provides an understanding of strategies, managerial issues, and technologies pertaining to electronic commerce in organizations. Topics include: history, business models, the virtual value chain, electronic markets, impact on organizational strategy and industry structure, analysis of successful strategies, and other emerging issues (legal, ethical, regulatory) related to managing electronic commerce, and the technical infrastructure enabling electronic commerce.

INFSYS 3847 Web Design: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and INFSYS 2800. This course focuses on web page planning, design, layout and construction. Topics covered include: setting up and maintaining a web site; understanding site structure, presentation, navigation and content management. HTML/XML, CSS, Dreamweaver, Fireworks, Flash, Photoshop, data access, scripting languages, and various other technologies and tools will be discussed.

INFSYS 3848 Security And Information Systems: 3 semester hours
Prerequisites: A minimum campus GPA of 2.0 and BUS AD 2800. This
course addresses the challenge of assuring security in information
systems - networked, embedded, and stand alone. Topics include: security
policies, models, tools, and techniques for enforcement. The course also
examines flawed security policies, and the consequences of penetration
and disruption of information systems.

INFSYS 3890 Internship In Management Information Systems: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of management information systems electives at the 3000level or above and have consent of supervising instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of management information systems where they apply the knowledge and skills learned in the classroom. Professional development obtaining specialized work experience are primary goals. A management information systems faculty member will monitor the student's program with the student providing a formal written report at the end of the project. INFSYS 3890 may not be counted toward the minimum credit hours of management information systems electives required for a Management Information Systems degree.

INFSYS 3895 Special Administrative Problems - Management Information Systems: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

INFSYS 3898 Seminar in Information Systems Management: 1-3 semester hours

Prerequisites: To be determined each time course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of information systems. May be repeated for credit with different topics.

INFSYS 3899 Independent Study In Information Systems: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in information systems under the supervision of a full-time information systems faculty member.

INFSYS 4850 Information Systems Design: 3 semester hours
Prerequisites: A minimum campus GPA of 2.0; INFSYS 3810, INFSYS
3816 and INFSYS 3845. System design, implementation, and methods of systems installation and operation are presented. A system development pro ject is required.

INFSYS 5800 Management Information Systems: 3 semester hours Same as P P ADM 6800. This course provides an overview of the established and contemporary issues related to information systems within organizations. Topics include the practices and tools associated with topics such as the management of IS-based investment projects, the design and implementation of IS, the alignment of IS strategy with organizational strategy, information security and privacy, and gaining a competitive advantage through IS.

INFSYS 5890 Internship In Information Systems: 3-6 semester hours Prerequisites: INFSYS 6840 or permission of instructor. The internship will be a supervised field experience in a US-based business/organization or a US-based international business/organization. Students will be employed off-campus for a 10-16 week period on projects directed by host organization supervisors in consultation with a UM-St. Louis faculty member. The project requires students to apply IS concepts to a real-world problem. The project does not duplicate, but builds upon material in the IS curriculum. A professional written report will be required.

INFSYS 5899 Individual Research in Information Systems: 1-3 semester hours

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Information Systems under the guidance of a specific professor.

INFSYS 6805 Applications Of Programming For Business Solutions: 3 semester hours

Prerequisite: ECON 4105. This course provides a study of businessoriented programming A programming language will be introduced and discussed in detail. Emphasis will be on program definition and the use of such programs in business-oriented applications.

INFSYS 6806 Managerial Applications Of Object-Oriented Technologies: 3 semester hours

Prerequisite: INFSYS 6805. This course deals with business-oriented programming in an object oriented environment. The emphasis will be on program definition, and tools and development in a client-server environment. The course will involve the study of objectoriented language in addition to object-oriented methodologies for systems development.

INFSYS 6808 Internet Programming For Business: 3 semester hours

Prerequisite: INFSYS 6805 Focus on web-based applications development for business. It will begin with the fundamentals of web-based computing, including web client and server interaction, the MIME standard, server and client data frame headers, the CGI standard, and error conditions as they pertain to business applications. In addition, JAVA will be introduced to build web-based GUI-interfaces and backend servers. Finally, business applications issues such as firewalls, proxy servers and data encryption using secure servers will be included.

INFSYS 6833 Decision Support Systems for Business Intelligence: 3 semester hours

Prerequisite: LOG OM 5300 Applications of intelligent decision support systems to support business intelligence are explored. DSS component design in response to decision making and business intelligence needs are discussed.

INFSYS 6835 IT-Enabled Business: 3 semester hours

Prerequisite: INFSYS 5800 IT-Enabled Business focuses on business models, processes, and activities made possible by the internet. The course includes theoretic aspects of e-commerce:consumer relationship management, supply chain management, inventory management, business strategy, auctions, and portals. Issues associated with electronic commerce such as security, privacy, content selection and rating, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities are explored. Particular attention is paid to IT-enabled entrepreneurship and business creation, and IT use in small to medium sized enterprises. Case studeis drawn from actual business applications will be used to reinforce theory.

INFSYS 6836 Telecommunications: Design And Management: 3 semester hours

Prerequisite: INFSYS 5800 (may be taken concurrently) The topic of telecommunications is addressed from both a technical and managerial viewpoint. In particular, the course will address issues such as communications components and services, local area network architecture, managerial implementations, organizational issues, and cost/benefit analyses.

INFSYS 6837 Information Systems Architecture: 3 semester hours

Prerequisite: INFSYS 6836 This course explores a wide range of topics necessary for understanding & managing distributed computing technology. A wide range of infrastructure and "middleware" architectural components will be explored. Finally, the course will provide a framework for understanding the capabilities and shortcomings of various distributed computing architectures, technical standards and their implications for interoperability of components.

INFSYS 6838 Business Processes: Design, Management & Integration: 3 semester hours

Prerequisite: INFSYS 5800. Major business processes are identified and analyzed. Issues related to characteristics, goals, benefits and costs of enterprise-wide design, and the role of information technology during the design process are discussed. Workflow automation, process modeling, analysis, automation, and redesign techniques are discussed, including the following: process inputs & entrance criteria, process outputs & exit criteria, feedback mechanisms & process correction, alternate theoretical frames for business process design, and impacts on business process design from socio-cultural forces. Case studies are used to illustrate the concepts.

INFSYS 6840 Information Systems Analysis: 3 semester hours

Prerequisite: INFSYS 6805 The theory and practice of structured analysis are presented. Topics may include: traditional vs. structured analysis methods, requirements analysis, user/analyst interaction, investigation of existing systems, human/machine interfaces, CASE tools, and workbenches.

INFSYS 6845 Database Management Systems: 3 semester hours

Prerequisites: INFSYS 5800 The course introduces the concepts of Database Management Systems for business applications. Issues in database architecture, design, administration, and implementation are covered. Projects are assigned on a mainframe DBMS and a microcomputer based DBMS to illustrate the concepts & applications.

INFSYS 6846 Management Of Global Sourcing: 3 semester hours

Same as INTL BUS 6846. Prerequisite: INFSYS 5800. Largely fostered by the spead of the Internet, global software development standards, global software packages, and fewer trade restrictions, organizations now regularly source software development, software maintenance, systems upgrades, platform transitions, help desks, and other IS-related work globally This course covers topics to help organizations manage global sourcing of IS work, including sourcing strategies, sourcing models (captive, joint venture, outsourcing), role of program management offices, supplier selection, engagement models, and special practices required to manage globally dispersed teams. Risk mitigation practices associated with cultural, legal, political, infrastructure, logistical, and human resource issues are also addressed.

INFSYS 6847 Financial And Project Management: 3 semester hours

Prerequisite: INFSYS 5800 Effective project management ensures that a project is completed on time, within budget, and has high quality. The purpose of this class is to examine the task of project resource management with a focus on IT and services. It will cover conventional aspects of project management, such as the project evaluation, planning, roles, responsibilities, scheduling, and tracking. In addition, this class will examine risk management, change management, critical chain management, build vs. buy analysis, package vs. custom solutions, vendor qualification and selection, and the roles of certification in the process. The class will also cover the management of programs or a portfolio of IT projects.

INFSYS 6848 Knowledge Management And Business Intelligence: 3 semester hours

Prerequisite: INFSYS 5800 Knowledge management (KM) is the process of creating, and drawing value from, an organization's intellectual assets. It deals with how to best leverage the organization's knowledge internally as well as externally. The emphasis on knowledge management within business organizations has risen dramatically in the last few years, to some extent as a result of the rapid progress in information technology capabilities. The course covers the following topics: KM tools, technologies, and systems, including knowledge repositories, knowledge portals, and expert seeker systems, creating and sustaining a knowledgesharing culture, managing and measuring intellectual capital, managing knowledge in networked organizations, including interorganizational alliances and supply chains, aligning knowledge with business strategy, risks of knowledge loss and knowledge leakage, business intelligence, and social aspects of knowledge management.

INFSYS 6849 Data Warehouse Design and Implementation: 3 semester hours

Prerequisites: INFSYS 6845 or consent of instructor. Course will cover different design configurations for structuring and organizing data in a data warehouse. Formal methodologies for the development of data warehouses will also be discussed and implemented.

INFSYS 6850 Information Systems Design: 3 semester hours

Prerequisites: INFSYS 6840 and INFSYS 6845 This course builds upon the analysis techniques presented in INFSYS 6840. It requires the student, usually working in a group to design and implement a system in a real-world environment. Advanced design concepts are presented to support the students in their project work.

INFSYS 6851 Practicum in Business Intelligence: 3 semester hours
Prerequisites: INFSYS 6833, INFSYS 6849, and LOG OM 6345. This
course will provide the context for students to integrate, synthesize and
apply their Business Intelligence skills in an actual business organization.
Project work will be jointly supervised and coordinated by a faculty
member and a supervisor in the relevant business organization.

INFSYS 6881 Management Of Transnational Information Systems: 3 semester hours

Same as INTL BUS 6881. Prerequisites: INFSYS 5800, INFSYS 6825 (may be taken concurrently) The course presents concepts of managing global information technology. Issues covered include: global information technology, systems development, electronic data interchange, cross-border data flows, and national and international information structures. Further topics may include information technology enabled economic development, global outsourcing of information systems services, and social, organizational and ethical implications.

INFSYS 6891 Seminar In Management Information Systems: 3 semester hours

Prerequisites: INFSYS 5800 Topics of current interest in management information systems. Topics may include international information systems, electronic commerce, decision support systems, information systems strategy, telecommunications, and information systems management.

INFSYS 7890 IS Research Seminar: 3 semester hours

Prerequisites: INFSYS 5800; Admittance into the Ph.D. Program Analysis of the research problems, approaches, and findings of Management Information Systems Research. May be repeated for credit when the subject matter is different.

INFSYS 7891 Quantitative Research Methods In IS: 3 semester hours
Prerequisites: INFSYS 5800; Admittance into the Ph.D. Program Analysis
of research design and validity of quantitative methods applied to the study
of Management Information Systems, including laboratory experiments,
sample surveys, and field experiements.

INFSYS 7892 Doctoral Seminar In Current Information Systems Topics: 3 semester hours

Prerequisites: INFSYS 5800. Admittance into the Ph.D. Program Theoretical and empirical analysis of topics of long-term importance to the IS field such as systems analysis and design, systems development and implementation, and database management. A historical perspective of the technical and behavioral issues associated to IS artifacts is provided such that contemporary issues and trends can be appreciated.

INFSYS 7893 Special Topics In Information Systems: 3 semester hours

Prerequisite: Consent of Instructor and admittance into the Ph.D. Program In-depth analysis of special topics in IS research. May be repeated for credit when the subject matter is different.

INFSYS 7894 Theoretical Foundations Of Information Systems Research: 3 semester hours

Prerequisites: INFSYS 5800, Admittance to the Ph.D. Program The theoretical foundations of information systems are largely built upon the theories from other disciplines, including the physical sciences, computer science, sociology, psychology, and mathematics. In this course, we survey a variety of theoretical foundations from other disciplines by reading the original works, critical responses to these theories, and representative applications of these theories in the IS domain.

International Business Courses

INTL BUS 3280 The Law Of International Business Transactions: 3 semester hours

Prerequisites: BUS AD 2900 or consent of the instructor. A study of the role and function of International Law and national laws in the regulation of international business transactions. The impact of various legal regimes on importexport transactions, foreign investments, and the operations of multinational enterprises will be included. The role of national governments, supra-national governmental organizations, and non-governmental organizations in forming and administering the international legal environment will be studied.

INTL BUS 3281 Business In China: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0; and junior standing This course introduces students to the practices of doing business in China. Students will be introduced to the Chinese economic and business environment. Issues related to trade and foreign direct investment in China will be discussed. The course adopts an innovative approach, utilizing lectures, case analysis, projects, and student presentations.

INTL BUS 3282 Managing The Global Workforce: 3 semester hours
Prerequisite: A minimum of 2.0 campus GPA. In addition, MGMT 3600 and
at least one of the following: MGMT 3611 or MGMT 3621 or enrollment
in Honors College or consent of instructor. A study of the international
dimensions of organizational behavior and human resource management.
The course provides an overview of the tools and skills that are necessary
to understand and manage people in global organizations. Topics include
motivation, leadership, communication, hiring, training, and compensation.

INTL BUS 3283 International Business And Society: 3 semester hours Encompasses the readings, lectures, company and government agency visits, and cultural visits that comprise annual Country Study Tours, (e.g., Austria, Japan, Thailand, etc.). The program includes 45 contact hours or more of classroom lectures covering aspects of the chosen country's business and society, in-depth pre-departure cross-cultural orientation and training supplemented by briefings on the country's economy and on U.S. market penetration by the Commercial Service, U.S. Embassy; a briefing by the in-country State of Missouri representative; briefings by host country agencies; company visits and factory tours; and tours of cultural sites. Student evaluation will be based on active participation and on a research paper based on readings, lectures, interviews and field observations.

INTL BUS 3284 The Japanese Management System: 3 semester hours

Prerequisites: MGMT 3600 This course provides an introduction to various aspects of the contemporary Japanese business system. The emphasis is on interpretation of issues from a managerial perspective. Topics include an overview of Japan's economic growth, government policies, industrial and financial structure of Japanese business, labor-management relations, internal management practices, international competitive strategies, managing U.S. subsidiaries in Japan, penetrating the Japanese market, Japanese investment in the U.S.A., and current issues in U.S.Japan economic relations.

INTL BUS 3286 International Business Ethics: 3 semester hours
Same as PHIL 3286. This course will deal with moral issues that are
raised by the increasing globalization of business. Apart from the
general issue of whether this globalization is itself a good thing, we will
discuss such issues as child labor, working conditions, safety standards,
environmental policies, bribery and other "corrupt" practices, respect for
intellectual property, etc. Frequent short papers will be assigned.

INTL BUS 3289 Practicum In International Business: 3 semester hours

Prerequisites: At least one international business course, 2.0 campus GPA and completion of an approval form. Students will apply both their language skills and knowledge of international business by working for a three month period in an organization located outside the student's country of origin. This course requires students to prepare a research report summarizing the global experience and how it relates to the international business program.

INTL BUS 3290 Internship In International Business: 3-6 semester hours

Prerequisites: ECON 1001 and ECON 1002, ACCTNG 2400 and ACCTNG 2410, an additional 12 hours in Business Administration, concurrent enrollment in a UM overseas program; also a minimum overall gpa of 2.0. The internship will be a supervised field experience in a business/ international organization at a foreign site. Students will work for 10 weeks on projects directed by host-organization supervisors in consultation with a UM-St. Louis faculty member. Prior to the field experience students will receive training that includes familiarization with the language and practices of the country's business, the background of the host firm, and international information sources. The student will complete a written report of his/her project. Course may not be repeated for more than 6 hours credit.

INTL BUS 3299 Independent Study In International Business: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator of the specific discipline. Special individual study in international business under the supervision of an approved faculty member.

INTL BUS 3580 International Corporate Finance: 3 semester hours
Same as FINANCE 3580.Prerequisites: FINANCE 3500 and a 2.0 campus
GPA. This course explores corporate finance in the context of a global
environment. Financial managers for an international firm must deal with
all the normal problems faced by domestic corporations plus additional
foreign exchange and political risks. Class discussions will focus on
applying financial techniques to decision making in foreign operations.
Students are required to work in a group to undertake a project related to
international finance.

INTL BUS 3582 International Investments: 3 semester hours

Same as FINANCE 3582.Prerequisites: FINANCE 3500. This course explores the concepts of investing and hedging risk management, portfolio diversification, currency risk, asset pricing, and alternative portfolio strategies. Techniques for using derivatives are discussed in the context of hedging exchange rate risk. Reading foreign exchange quotes and understanding the functioning of global markets is central to the course. A prior course in investments is recommended but not required.

INTL BUS 3680 International Management: 3 semester hours

Same as MGMT 3680. Prerequisites: A minimum 2.0 campus GPA. In addition, ECON 1002 and MGMT 3600; or consent of the instructor. A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

INTL BUS 3780 International Marketing: 3 semester hours

Same as MKTG 3780. Prerequisites: MKTG 3700 and a 2.0 overall gpa. Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a country's cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, economic and social development, the spread of multinational corporations, business ethics, and current economic and marketing issues are examined.

INTL BUS 3787 Marketing in the European Union: 3 semester hours Same as MKTG 3787. Prerequisites: MKTG 3780 or instructor's permission. The European Union (EU) is both a major customer and major competitor of the United States. The inclusion of many of the Eastern European countries into the EU has added another challenge to our ability to trade in this area. The better we understand the people, institutions and policies of the EU, the better positioned we will be to conduct business effectively. This course will emphasize understanding the institutional structure that unites the European Union as well as the cultural and political diversity of its members, and provide insights into how business activity functions in the European Environment.

INTL BUS 4280 International Business Experience: 0 semester hours Students with an International Business emphasis must complete one of the following international experience requirements: (a) study abroad for three or more credit hours, (b) complete a minumum of one year international experience (e.g., Peace Corps, volunteer work, missionary work, an international posting by an organization) within 5 years of entering the program, or (c) complete an international internship approved by the International Business Institute. May be taken on a stisfactory/ unsatisfactory basis only.

INTL BUS 4281 Entrepreneurship in the Global Environment: 3 semester hours

Prerequisites: ECON 1002; ACCTNG 2410; MKTG 3700. This course explores changes in the planet's physical environment and ways of reversing, retarding or coping with those changes. Students will be required to develop proposals for new business ventures that have as a goal preservation or restoration of the natural environment.

INTL BUS 4289 International Stretegic Management: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA and MGMT 3682, MKTG 3780 and FINANCE 3580 or consent of instructor. A study of the international dimensions of strategic management. Provides an introduction to the key concepts and tools necessary for international competitive analysis. Topics include the international dimensions of strategy formulation and implementation, diversification, strategic alliances, and divestment.

INTL BUS 4290 International Business Case Competition Course: 2 semester hours

Prerequisites: Able to participate in Fall and Spring semester (2-part course for total of three credit hous); Cumulative UMSL GPA of 3.0 or above; and completed one of the required core courses for an IB major. This course will prepare the students to research, prepare and present a proposed solution in a team format to a multi-disciplinary international business problem. During the Fall Semester, the students will compete in three different international business problems with the team composition being varied for each exercise. Each competition will be graded and based on team performance the instructor will select the best performing team composition. The best performing team composition will be the UMSL entry in the Spring semester UMSL International Business Case Competition. Students not participating as the UMSL entry in the UMSL International Business Case Competition will be the organizers and hosts for the UMSL International Business Case Competition. Organizing and hosting the UMSL International Business Case Competition will require the students to plan, organize, execute and host a major international business event. An important part of this will be the requirement for the class to create a mission statement, a business plan, marketing campaign and metrics to monitor success.

INTL BUS 4381 International Logistics And Operations Management: 3 semester hours

Same as LOG OM 4381. Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. A study of business logistics and supply chain strategies involving shipments across national boundaries. Topics include the effects of international agreements and regional trading blocks on supply chain strategies; the design of global logistics networks; managerial processes and systems for international production and distribution, and risk management for international logistics.

INTL BUS 5289 International Business Strategies: 3 semester hours
Prerequisites: BUS AD 5000 and ACCTNG 5400. This course focuses
on those managerial issues which follow from the definition and
implementation of corporate strategy for worldwide operations, as
distinguished from purely domestic firms or those only marginally involved
in international activities. It aims to develop an appreciation for the unique
competitive, sociocultural and political environments in which international
business takes place and the skills required to deal with these changes.

INTL BUS 5290 Internship In International Business: 3 semester hours

Prerequisites: Consent of IMBA Director Students will apply both their language skills and knowledge of international business by working in an organization located outside the student's country of origin. This course requires students to submit regular evaluations and prepare a research report summarizing their global experience and how it relates to the international business program.

INTL BUS 5381 International Logistics And Operations Management: 3 semester hours

Prerequisites: LOG OM 5320 A study of international logistics and operations management strategy, planning and operations. Topics may include multinational logistics and supply chain strategies, global network design and sourcing, international transportation, distribution and operations, import-export, risk management, etc. (SAME AS INFSYS 5381).

INTL BUS 5480 International Accounting: 3 semester hours Same as: ACCTNG 5480. Prerequisites: ACCTNG 3402. Accounting practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting.

practices for multinational businesses. Discussion of comparative financial accounting practices, the development of international accounting standards, and managerial accounting practices related to multinational operations.

INTL BUS 5780 Seminar In International Marketing: 3 semester hours Same as MKTG 5780. Prerequisite: MKTG 5700. An advanced seminar on topics in international or global marketing. Possible topics include the globalization of trade, export marketing, international market opportunity analysis, and negotiation for international marketers. Students who take one version of this course (e.g., globalization of trade) can take a second version of the course (e.g., negotiation for international marketers) with prior permission.

INTL BUS 6580 International Financial Management: 3 semester hours

Same as FINANCE 6580. Prerequisite: FINANCE 6500. The objective of this course is to introduce students to financial issues for multinational firms. Besides covering basic tools and techniques, the class stresses the role of the financial manager in analysis and decision-making. Topics include the impact of international accounting and tax issues, capital budgeting in a foreign environment, transfer pricing, and global funding. Conceptual skills for lifelong learning experiences are emphasized. This course emplys a lecture and case format with group discussions.

INTL BUS 6581 Seminar In International Investments: 3 semester hours

Same as FINANCE 6581. Prerequisite: FINANCE 6500. This course covers topics related to the determination of exchange rates, international parity relations and portfolio diversification. In addition, methods for using foreign exchange derivatives are explored in their use for hedging exchange rate risk. Learning to read foreign exchange quotes and understanding the functioning of global markets is an integral part of the course material. Each student is assigned a foreign country to study throughout the semester with the comprehensive project report. A prior investments course is recommended but not required.

INTL BUS 6846 Management Of Global Sourcing: 3 semester hours

Same as INFSYS 6846. Prerequisite: INFSYS 5800. Largely fostered by the spead of the Internet, global software development standards, global software packages, and fewer trade restrictions, organizations now regularly source software development, software maintenance, systems upgrades, platform transitions, help desks, and other IS-related work globally This course covers topics to help organizations manage global sourcing of IS work, including sourcing strategies, sourcing models (captive, joint venture, outsourcing), role of program management offices, supplier selection, engagement models, and special practices required to manage globally dispersed teams. Risk mitigation practices associated with cultural, legal, political, infrastructure, logistical, and human resource issues are also addressed.

INTL BUS 6881 Management Of Transnational Information Systems: 3 semester hours

Same as INFSYS 6881. Prerequisites: INFSYS 5800, INFSYS 6825 (may be taken concurrently). The course presents concepts of managing global information technology. Issues covered include: global information technology, systems development, electronic data interchange, crossborder data flows, and national and international information structures. Further topics may include information technology enabled economic development, global outsourcing of information systems services, and social, organizational and ethical implications.

INTL BUS 7000 intl bus test: 1 semester hour

Logistics and Operations Management Courses

LOG OM 3300 Business Statistics: 3 semester hours

Prerequisites: MATH 1100, MATH 1105, INFSYS 1800 and a 2.0 campus GPA. Construction and use of statistical models for business management. Students will learn techniques used for relational analysis and business forecasting and how to apply them in a business context. Tools include CHI-Square tests of statistical independence; analysis of variance; simple linear regression and correlation; multiple linear regression; and extrapolative techniques such as moving averages and exponential smoothing. Emphasis is placed on problem definition, construction of statistical models, analysis of data, and interpretation of results. Computers are used for extensive analyses of case data.

LOG OM 3320 Introduction To Operations Management: 3 semester hours

Prerequisites: A 2.0 campus GPA and either (ECON 1001, ACCTNG 2410 and LOG OM 3300) or (MATH 2000 and MATH 1320). An examination of the concepts, processes, and institutions which are fundamental to an understanding of manufacturing and service operations within organizations. Emphasis is on the management and organization of operations and upon the application of quantitative methods to the solution of strategic, tactical and operational problems.

LOG OM 3390 Internship In Logistics And Operations Management: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of LOM electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of at least 2.5 is also required. Students are employed in the field of Logistics and Operations Management (LOM) where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. An LOM faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3390 may not be counted toward the minimum credit hours for the LOM emphasis.

LOG OM 3395 Special Administrative Problems - Management Science: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

LOG OM 3398 Seminar in Logistics and Operations Management: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of logistics and operations management. May be repeated for credit with different topics.

LOG OM 3399 Independent Study In Logistics And Operations Management: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in logistics and operations management under the supervision of a full-time logistics and operations management faculty member.

LOG OM 4312 Business Forcasting: 3 semester hours

Prerequisites: Minimum campus GPA of 2.0 or graduate standing; also either LOG OM 3320 or (MATH 3000 and MATH 1320) Further study of statistical tools for forecasting in a decision-making context. Topics include explanatory models (multiple regression), classical time series decomposition, and extrapolative techniques (exponential smoothing and Box-Jenkins procedures). In addition, methods for considering problems of intervention effects, seasonality, and collinearity will be discussed. Students will perform extensive analyses of time series data using computer packages.

LOG OM 4321 Production and Operations Management: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. Application of the tools and techniques of statistical decision theory and operations research to production and operating problems. Emphasis is on the use of mathematical modeling and simulation techniques to analyze complex and ill-structured problems in large-scale systems.

LOG OM 4322 Lean Production In Manufacturing And Service Operations: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320 Study of Lean Production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement techniques, quick set-ups, total productive maintenance, kanban scheduling, cellular production, team organization of workers, supplier relations, quality management, and the environmental aspects of production.

LOG OM 4324 Service Operations Management: 3 semester hours
Prerequisites: A minimum campus GPA of 2.0 or graduate standing;
also LOG OM 3320. An examination of methods for designing and
operating service delivery systems, such as in the health care, financial,
transportation, hospitality, and governmental services industries. Topics
include process and facility design, facility layout and location, queuing,
demand forecasting and management service quality, staffing, and
personnel scheduling.

LOG OM 4326 Quality Assurance In Business: 3 semester hours
Prerequisites: A minimum campus GPA of 2.0 or graduate standing;
also LOG OM 3320. A study of statistical quality control concepts and
procedures applicable to management systems, administrative activities,
service industries, and nonprofit organizations. Some successful quality
assurance programs will be examined.

LOG OM 4330 Business Logistics Systems: 3 semester hoursPrerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. Analysis of business logistics systems, their design, and operation. Topics include: network design, facility location, transportation, vehicle routing, storage and handling capacity planning, inventory management, and customer service.

LOG OM 4350 Management Science Methods: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing;
also LOG OM 3320 or MATH 3000 and MATH 1320. Applications of the
theories and techniques of operations research to problems of business,
government, and industry with emphasis on the construction and utilization
of quantitative decision models.

LOG OM 4354 Management Science Methods II: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 4350. Topics of special interest including mathematical programming, stochastic decision-making, digital simulation, game theory, and other selected techniques. (Formerly Mathematical programming).

LOG OM 4381 International Logistics And Operations Management: 3 semester hours

Same as INTL BUS 4381. Prerequisites: A minimum campus GPA of 2.0 or graduate standing; also LOG OM 3320. A study of business logistics and supply chain strategies involving shipments across national boundaries. Topics include the effects of international agreements and regional trading blocks on supply chain strategies; the design of global logistics networks; managerial processes and systems for international production and distribution, and risk management for international logistics.

LOG OM 4398 Seminar in Logistics and Operations Management: 1-3 semester hours

Prerequisites: LOG OM 3320 or permission of the instructor and a minimum 2.0 campus GPA. For some topics additional prerequisites may be required. An intensive study of a specific aspect, problem or technique in the areas of logistics, operations management, or supply chain management. Different topics may be offered under this course number, so the course (with different topics) can be repeated for credit.

LOG OM 5300 Statistical Analysis For Management Decisions: 3 semester hours

Prerequisites: INFSYS 5800 (may be taken concurrently) and ECON 4105 with a minimum grade of "C" The role of statistical evidence in the formation of inference and in the selection of strategies in solving business problems is developed. Probability and probability distributions are studied as a basis of statistical inference. An introduction to multivariate analysis is provided, which includes analysis of variance and regression methods.

LOG OM 5312 Advanced Statistical Methods For Management Decisions: 3 semester hours

Prerequisites: LOG OM 5300 The application of statistical methods to managerial problems, forecasting and business research. Topics include the blending of multiple regression and analysis of variance into a general linear model, logistic models, techniques for projecting seasonal time series, and forecasting techniques (ARIMA models) which deal with serially correlated data. Through class presentations, assigned exercises and a major project, students gain experience in constructing explanatory and predictive models for problems in marketing, finance, etc. Students use commercial software (e.g. the Statistical Analysis System) for analyzing data, constructing models and producing reports.

LOG OM 5320 Production And Operations Management: 3 semester hours

Prerequisites: LOG OM 5300 This course discusses issues related to the creation and delivery of goods and services. Topics include the design of production processes, the layout and location of facilities, forcasting, scheduling, inventory control, queuing, materials planning, and quality control. Analytical techniques such as linear programming are used in studying these problems.

LOG OM 5322 Lean Production: 3 semester hours

Prerequisites: LOG OM 5320. Study of Lean Production philosophy and techniques in manufacturing and service operations. Topics include process analysis and continuous improvement, set-up reduction, total productive maintenance, kanban scheduling, cellular production, work teams, supplier relations, quality management, and the environmental aspects of production. Cases and a course project will be used to integrate and apply the course material.

LOG OM 5324 Service Operations Management: 3 semester hours

Prerequisite: LOG OM 5320. An examination of methods for designing and operating service delivery systems, such as in the health care, financial, transportation, hospitality, and governmental services industries. Topics include process and facility design, facility layout and location, queuing, demand forecasting and management, service quality, staffing, and personnel scheduling.

LOG OM 5326 Quality Management: 3 semester hours

Prerequisites: LOG OM 5300 or MATH 4200 or permission of instructor An applied course on total quality management. quality improvement approaches are presented and the managerial implications and responsibilities in implementing these approaches are discussed. Topical coverage includes the construction and interpretation of control charts, graphical methods, quality function deployment, robust experiments for product design and improvement, mistake-proofing (poke yoke), the Deming approach, Baldridge award criteria, quality cost audits, worker empowerment and reward systems. Cases involving both business pocesses and physical processes are used to illustrate successful quality improvement efforts.

LOG OM 5334 Internship In Logistics And Supply Chain Management: 1 semester hour

Prerequisite: Consent of Instructor Students receive practical experience in the area of logistics or supply chain management. The internship is supervised by a professional in the host organization in consultation with a faculty member.

LOG OM 5340 Transportation Economics for Business Managers: 3 semester hours

Prerequisites: ECON 3001 or BUS AD 5000 or permission of the instructor. This course makes use of a range of economic concepts to examine the nature of markets in which transport services are provided. This course is designed for future transportation professional who wish to explore the fundamentals of economics in their field. Basic concepts covered include the theory of transportation demand, transportation costs and investment planning, and current topics in transportation economics such as regulation-deregulation and social cost pricing.

LOG OM 5354 Simulation For Managerial Decision Making: 3 semester hours

Prerequisites: LOG OM 5320. Introduction to simulation as a managerial decision-making aid. Application of simulation to a number of management science-oriented problems. This course introduces and requires use of a simulation language.

LOG OM 5381 International Logistics And Operations Management: 3 semester hours

Same as INTL BUS 5381. Prerequisites: LOG OM 5320. A study of international logistics and operations management strategy, planning and operations. Topics may include multinational logistics and supply chain strategies, global network design and sourcing, international transportation, distribution and operations, import-export, risk management, etc.

LOG OM 5398 Seminar in Logistics and Operations Management: 1-3 semester hours

LOM 5320 or permission of the instructor. For some topics additional prerequisites may be required. An intensive study of a specific aspect, problem, or technique in the areas of logistics, operations management, or supply chain management. Different topics may be offered under this course number, so the course (with different topics) can be repeated for credit.

LOG OM 5399 Individual Research in Logistics and Operations Management: 1-3 semester hours

Prerequisites: Consent of instructor and graduate director. Special individual research topics in Logistics and Operations Management under the guidance of a specific professor.

LOG OM 6330 Business Logistics Systems: 3 semester hours

Prerequisites: LOG OM 5320 (may be taken concurrently). Analysis of business logistics systems and their role in supply chain management. covers both design and operation of logistics systems and their components. Topics may include network design, facility location, transportation, vehicle routing, inventory management, customer service, reverse logistics and logistics information systems.

LOG OM 6331 Logistics And Supply Chain Operational Modeling: 3 semester hours

Prerequisites: LOG OM 5320 and LOG OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the operational management of logistics and supply chains. This course covers the economic tradeoffs involved in such decisions, data requirements, operating parameters, and application of software packages to problems such as vehicle routing and scheduling, freight shipments consolidation, cross-docking, and other operational and tactical strategies. This "hands on" course is designed to prepare students for higher-level supply chain analyses and consulting work.

LOG OM 6332 Logistics And Supply Chain Strategic Modeling: 3 semester hours

Prerequisites:LOG OM 5320 and LOG OM 6330. A study of the application of leading software packages to modeling problems and issues arising in the planning and strategic management of logistics networks and supply chains. The course identifies and explores the economic and customer service tradeoffs involved in such networks. Issues such as location of facilities assignment of production and distribution missions to facilities, identification of sourcing relationships amongst facilities, and identification of cost and customer service consequences of alternative supply chain designs are addressed by the application of commercial software packages to support decision making. This "hands on" course is designed to prepare students for high-level supply chain analyses and consulting work.

LOG OM 6345 Business Analytics and Data Mining: 3 semester hours

Prerequisites: LOG OM 5300 and INFSYS 5800. This course concentrates on methods for converting data into business intelligence. It provides knowledge of the principles and techniques for business analytics and data mining. Topics include clustering, pattern recognition, visualization of relationships, predictive modeling, optimization techniques and simulation.

LOG OM 6347 LOM Project Management: 3 semester hours

Prerequisites: LOG OM 5320. This course addresses the concepts and processes of project management as applicable to Logistics and Operations Management. Students study organizational design, project specification, integrated project planning, risk management and project control; students will come to understand how globalization, environmental and sustainability issues, quality control (including industry standard initiatives such as the Continuing Integration Improvement Model and the International Standards Organization model), and cultural factors drive project management. NOTE: Credit may not be earned for both LOG OM 6347 and INFSYS 6847.

LOG OM 6350 Management Science Methods: 3 semester hours

Prerequisites: LOG OM 5320. This course provides a working knowledge of manaement science techniques. It emphasizes analytical approaches to solving business problems, construction of mathematical models, and manipulation of model variables for managerial decision-making. Topics include mathematical programming, including integer and network models, heuristics, and simulation models.

LOG OM 6395 Seminar In Logistics And Operations Management: 3 semester hours

Prerequisite: LOG OM 5320 Topics of current interest in logistics and operations management. Topics may include just-in-time and lean production, quality management, manufacturing and service systems, transportation and logistics, quanitative management tools, etc.

LOG OM 7381 International Supply Chain Management: 3 semester hours

Prerequisites: LOG OM 5320; Admittance into the Ph.D. Program A comprehensive examination of international logistics and supply chain management strategies, planning and operations from the firm's perspective. Topics may include multinational logistics and supply chain issues and management strategies, multinational sourcing and network design, transportation issues in international supply chains, multinational distribution and operations, legal and financial issues in import and export, risk identification and management in international supply chains, and the relationship of supply chain management to other activities of international firms.

LOG OM 7390 Research Seminar In LSCM: 3 semester hours

Prerequisites: LOG OM 6330; Admittance into the Ph.D. Program. Analysis of research approaches, and findings in Logistics and Supply Chain Management. May be repeated for credit when the subject matter is different.

LOG OM 7393 Special Topics In LSCM: 3 semester hours

Prerequisites: Consent of Instructor; Admittance into the Ph.D. Program In-depth analysis of special topics in Logistics and Supply Chain Management research. May be repeated for credit when the subject matter is different.

Management Courses

MGMT 3600 Management And Organizational Behavior: 3 semester hours

Same as SOC 3600. Prerequisites: Junior standing and a 2.0 overall GPA. This course involves the study of the behavior of individuals and groups in an organizational setting. Specific topics examined include: motivation, leadership, organizational design, and conflict resolution, as well as basic coverage of of management principles. In covering these topics, both "classic" and current perspectives are provided.

MGMT 3611 Advanced Management And Organizational Behavior: 3 semester hours

Prerequisites: MGMT 3600 and a 2.0 overall GPA. Building upon MGMT 3600, course provides a more detailed examination of motivation, leadership, group process, decision making, job design, and organizational development. In addition to providing more detail in terms of content, this course provides the student with considerable practical experience through the use of class exercises, case studies, and small group discussions.

MGMT 3612 Professional Skills Development: 3 semester hours

Prerequisite: A minimum 2.0 campus GPA and Junior Standing This course focuses on career management. Topics include job search, interviews, resumes and cover letters, presentation skills, business etiquette, entry strategies, and career alternatives.

MGMT 3621 Human Resource Management: 3 semester hours
Prerequisites: MATH 1105, MGMT 3600 and a 2.0 overall GPA. Indepth examination of selected human resource management issues from a contemporary manager's viewpoint. Topics examined include: employee selection, performance appraisal, training and development, compensation, legal issues, and labor relations.

MGMT 3622 Industrial And Labor Relations: 3 semester hours

Prerequisite: MGMT 3600 and a 2.0 overall GPA. Emphasis is on the dynamic relationship between management, employees, unions, and government as determinants in the efficient and effective use of human resourses. Current issues and case material are used to supplement text and lecture.

MGMT 3623 Industrial And Organizational Psychology: 3 semester hours

Same as PSYCH 3318. Prerequisite: PSYCH 2201 or MATH 1105, MGMT 3600. This course introduces the student to psychological research and theories pertaining to human behavior in the work setting. Topics covered include: selection, performance appraisal, training, leadership, motivation, job satisfaction, and organizational design.

MGMT 3624 Employee Training And Development: 3 semester hours Prerequisites: A minimum overall gpa of 2.0. In addition, MGMT 3600 or

Prerequisites: A minimum overall gpa of 2.0. In addition, MGMT 3600 or permission of instructor. An intensive study of training in organizations, including needs analysis, learning theory, management development, and development of training objectives and programs. Projects and exercises are used to supplement the readings.

MGMT 3625 Leadership in Organization: 3 semester hours

Prerequisites: MGMT 3600 and a minimum 2.0 campus GPA. This course introduces classic and contemporary theories of leadership. The emphasis is on building a sound grasp of good practice and on developing the student's ability to apply such knowledge as he/she enters today's global workforce. The course covers key theories and models of effective leadership in organizations.

MGMT 3680 International Management: 3 semester hours

Same as INTL BUS 3680.Prerequisites: A minimum 2.0 campus GPA. In addition, ECON 1002 and MGMT 3600; or consent of the instructor. A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments, and the control process in an international context.

MGMT 3685 Role Of The Global Corporation: 3 semester hours

Prerequisites: A minimum 2.0 campus GPA and MGMT 3600 or permission of the instructor. The purpose of this course is to create awareness of controversial issues about international business. Students will gain a better understanding of resistance to and criticism of international business and will become better prepared for dealing with these issues and problems.

MGMT 3690 Internship In Management: 1-3 semester hours

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Management electives and have consent of supervising instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of Management where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Management faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3690 may not be counted toward the minimum 12 credit hours of management electives required for a MOB emphasis.

MGMT 3695 Special Admin Problems - Management & Organization Behavior: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

MGMT 3698 Seminar in Management: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of management. May be repeated for credit with different topics.

MGMT 3699 Independent Study In Management: 1-3 semester hours

Prerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in management under the supervision of a full-time management faculty member.

MGMT 4219 Strategic Management: 3 semester hours

Prerequisites: Senior standing and FINANCE 3500, MKTG 3700, MGMT 3600; a minimum overall GPA of 2.0.; and concurrent enrollment MGMT 4220. This is a capstone course drawing on the subject matter covered in prerequisite courses. Emphasis is on the formulation and implementation of corporate, business and functional strategies designed to achieve organizational objectives. Topics include the role of top management, globalization of business and ethical perspectives. Case studies and research reports may be used extensively. (It is preferred that this course be taken during the student's final semester.

MGMT 4220 Business Assessment Testing: 0 semester hours

Prerequisite: Concurrent enrollment in MGMT 4219, Strategic Management. A one-time lab during which a major field exam in business is administered. Course graded on a satisfactory/ unsatisfactory basis. Satisfactory grade required for graduation.

MGMT 4614 Entrepreneurship/Small Business Management: 3 semester hours

Prerequisite: BUS AD 2900, FINANCE 3500, MKTG 3700, MGMT 3600, and a 2.0 overall gpa. This integrative general management course is designed to communicate the academic principles of business management applicable to solving of problems of small and medium-size businesses and assist in their development. This course will provide a background in the forms of business, the development of business plans and systems integration, venture capital, accounting, procurement, promotion, financing, distribution and negotiations for initial organization, and operation and expansion of the firm.

MGMT 5600 Organizational Behavior And Administrative Processes: 3 semester hours

Same as P P ADM 6600. The theoretical and research contribution of the behavioral sciences to management and administration are examined and applied to selected organizational situations. Areas to be considered from the standpoint of both individual and organizational performance are communication, motivation, conflict, decision-making, goal setting, leadership, organizational design, climate, development and control. Utilizing a systems perspective, the course attempts to develop in each student an ability to analyze and solve organizational problems.

MGMT 5611 Advanced Organizational Behavior And Administrative Processes: 3 semester hours

Prerequisite: MGMT 5600. An indepth examination of selected organizational and individual theories affecting behavior and operating performance. Organizational structure and design, formal and informal organization, decision making, communications and motivation are analyzed for their organizational impact. The course seeks to develop further the ability to analyze and evaluate organizational processes and individual behavior.

MGMT 5612 Negotiating Workplace Conflict: 3 semester hours
Same as P P ADM 6680. Prerequisites: P P ADM 6600 / MGMT 5600,
and Graduate Standing Examines conflict and cooperation between
individuals, groups, and organizations over the control of work. A central
theme is how this conflict is expressed, controlled and resolved. Students
will participate in exercises to learn the basics of two-party negotiations.

MGMT 5614 Managing Organizational Change And Design: 3 semester hours

Prerequisites: MGMT 5600 (may be taken concurrently). This course examines the ways to manage orgainzational change to meet the rapid pace of change in the business environment. Cases and current research inform class discussions of different types of restructuring. Topics may include creating learning organizations, designing for innovation, managing growth and downsizing, and building sustainable organizations.

MGMT 5621 Managing Human Resources: 3 semester hours

Prerequisite: MGMT 5600. In-depth examination of selected of human resource management issues from a contemporary manager's viewpoint. Topics examined include: personnel planning; employee selection; performance appraisal, training, and development; compensation; legal issues; discipline; and labor relations. The course examines these topics as they relate primarily to operational activities in organizations.

MGMT 5622 Union-Management Relations And Collective Bargaining: 3 semester hours

Prerequisite: MGMT 5600 and BUS AD 5900. Primary concern is with the setting and the dynamics of contract negotiation and administration. Emphasis is on the development of insight and understanding of the forces affecting the decisions of the parties to a labor contract within the context of the social, political and economic environment of the organization. A dynamic approach is taken to examine difficulties that arise in attempting to administer a collectively established relationship between employer and employee.

MGMT 5625 Selected Topics In Human Resource Management: 3 semester hours

Prerequisites: MGMT 5621 and LOG OM 5300. This course provides an advanced treatment of selected human resource management topics. Primary focus is on topics such as job analysis, pre-employment screening devices, test validation, and civil rights laws. Other topics, such as performance appraisal, recruitment, promotions, and terminations may be covered. Various class projects may be assigned to supplement readings, lectures, and discussion.

MGMT 5695 Seminar In Management: 3 semester hours

Prerequisites: MGMT 5600 Topics of current interest in management. Possible topics include: human resource management, international management, and entrepreneurship.

MGMT 5699 Individual Research in Management: 1-3 semester hoursPrerequisites: Consent of instructor and graduate director. Special individual research topics in Management under the guidance of a specific professor.

Marketing Courses

MKTG 3700 Basic Marketing: 3 semester hours

Prerequisites: ECON 1001, Junior standing and a 2.0 overall GPA. An examination of the character and importance of the marketing process, its essential functions and the institutions performing them. Attention is focused on the major ploicies (such as distribution, product, price, and promotion) which underlie the multifarious activities of marketing institutions and the managerial, economic, societal implications of such policies.

MKTG 3710 Consumer Behavior: 3 semester hours

Prerequisites: MKTG 3700, and a minimum overall gpa of 2.0. A study of such consumer functions as decision-making, attitude formation and change, cognition, perception, and learning. The marketing concepts of product positioning, segmentation, brand loyalty, shopping preference and diffusion of innovations are considered in context with the environmental, ethical, multicultural and social influences on an increasingly diverse American consumer.

MKTG 3720 Management Of Promotion: 3 semester hours

Prerequisite: MKTG 3700 and a 2.0 overall GPA. A study of the design, organization and implementation of the marketing "communications mix". Various methods such as advertising, personal selling, and publicity are analyzed as alternatives for use alone, or in combination to stimulate demand, reseller support, and buyer preference. Particular topics considered include: media selection, sales promotionals, packaging, selling strategy and their relationships in the promotion process.

MKTG 3721 Introduction to Digital Marketing Strategies: 3 semester hours

Prerequisites: MKTG 3700 and a minimum campus GPA of 2.0. This course explores the world of digital media marketing and how it impacts and is integrated along with our traditional marketing channels. We will explore how the balance of power has shifted between brands and consumers. Consumers are more active in the marketing process and in influencing how brands communicate with them than ever before. In particular we will explore: The latest digital marketing trends, how to build a strong website from an organic perspective, search strategies for success, website intelligence and tracking using Google Analytics, retaining customers via Email marketing, online Display advertising, social media strategy, affiliate marketing, mobile marketing trends and developing an integrated marketing plan.

MKTG 3722 Introduction to Social Media Marketing: 3 semester hours

Social networks are becoming an integral part of the marketing mix. In these platforms, brands can engage with prospects and consumers on many levels. In this course you will learn how to create a brand presence on these social networks, understand the differences between earned and paid media, be introduced to the various tools (free and paid) used to listen and engage with consumers, discuss how brands manage healthy communities, learn techniques used social media managers to identify influencers, the various ways engagement is measured including calculating social media ROI. Social networks to be discussed throughout the semester will include Facebook, Twitter, Tumblr, instagram, Linkedin, etc. Students will also be introduced to the various social measurement tools including Netbase (our partner), HootSuite, tweetdeck, Sprinklr, Technorati, etc. Real life case examples will be used throughout the semester.

MKTG 3738 Advertising Technique: 3 semester hours

Same as MEDIA ST 3338. Prerequisites: MEDIA ST 1100 or MKTG 3700 or consent of instructor. Techniques for creating advertising messages and campaigns to reach target audiences. Focus on the process of persuasion, importance of advertising in modern economics, rationale for company advertisement, evaluation of advertising effectiveness, and assessment of advertising myths and truths. Practical application of messages and campaigns will be stressed.

MKTG 3740 Marketing Research: 3 semester hours

Prerequisites: INFSYS 1800, MKTG 3700, LOG OM 3300, and a 2.0 Overall GPA. An investigation of the acquisition, presentation, and application of marketing information for management. Particular problems considered are defining information requirements, evaluating research findings, and utilizing information. Statistical methods, models, and/or cases are employed to illustrate approaches to marketing intelligence problems, such as sales forecasts, market delineation, buyer motives, store location, and performance of marketing functions.

MKTG 3750 Sales Management: 3 semester hours

Prerequisites: MKTG 3700 and MGMT 3600. (MGMT 3600 may be taken concurrently). Also a minimum campus GPA of 2.0. the aim of this course is to provide an understanding of how selling is critical to the success of marketing. The course will promote critical thinking skills as well as practical selling skills needed in a competitive marketplace. Course topics include, among others, selling principles & techniques, understanding of the tasks and roles of the sales manager, the management of sales professionals within an organization, developing and applying effective persuasive communications, creating a vision, developing and implementing a sales-team strategy, stucturing sales-force, designing and assigning territories, recruiting, training, motivation and evaluating salespeople, methods of compensation, and forecasting sales. The emphasis will be on ways the sales-force can be molded to build long-lasting relationships with customers through the systematic analysis and solution of customer's problems.

MKTG 3760 Business To Business Marketing: 3 semester hours

Prerequisites: Senior standing, MATH 1105, MKTG 3700 and a 2.0 overall GPA. A study of the nature of the business-to-business (organizational) marketplace, concentrating on those aspects that differentiate it from consumer markets. The major focus of the course is marekting strategy, starting with analysis of the market wants and segments, concepts of pricing, the distribution arrangements, and buyer/seller relations. In this last area, consideration will be given to service, personal selling, sales promotion, and advertising, as found in the organizational marketplace. At all times emphasis is given to relating business-to-business marketing strategy to basic concepts in underlying business disciplines. Lectures and case discussions are used heavily in the course.

MKTG 3770 Introduction To Transportation: 3 semester hours

Prerequisite: A minimum campus GPA of 2.0; also Junior standing or instructor consent. This course provides an overview of the transportation sector, including history, providers, users, and government regulation. The importance and significance of transportation, the operational aspects of transportation modes of rail, water, motor, air and pipeline; the demand and supply of transportation, and the managerial aspects of these modes of transport will be covered in the course.

MKTG 3771 Traffic And Transportation Management: 3 semester hours

Prerequisites: A minimum campus GPA of 2.0 and Junior standing or instructor's consent. This course focuses on the purchase of transportation and warehouse services and/or the operation of transportation services as a firm activity. This course is also designed to provide the student with an exposure to the managerial aspects of transportation management as a function of the firm's logistical strategy. In addition, it includes an introduction to the management of firms with the various transportation modes of rail, motor, air, watar, and pipelines. This course is designed to provide the student with a basic understanding of the issues and work performed by traffic managers and the management of modern transportation firms.

MKTG 3776 Transportation Security, Safety and Disaster Preparedness: 3 semester hours

Prerequisites: Junior standing or intructor's consent. This course emphasizes security issues related to the nation's highway, aviation, pipeline, inland waterway, transit, and rail networks, as well as port facilities. This course provides an overview of transportation safety issues including passenger and employee safety and hazardous materials. Strategies to prepare for transportation-related disasters in addition to the transport of people and goods after terrorism events or natural disasters are also addressed.

MKTG 3777 Aviation in American Life: 3 semester hours

Prerequisites: Junior standing or instructor's consent. This course focuses on the history and business of aviation in the United States from balloon flights preceding the Wright brothers through the terrorist attacks in September 2001 with emphasis upon how aviation and aviators have influenced American society, culture. Themes include the evolution of aviation technology, the growth of the commercial/military aviation/aerospace industries, issues of race and gender in aviation, the development of America's commercial airlines, aviation's influence upon American art, films, advertising, and literature, the significance of the space race, and the role of aerial weapons of war.

MKTG 3780 International Marketing: 3 semester hours

Same as INTL BUS 3780. Prerequisites: MKTG 3700 and a 2.0 overall gpa. Marketing management problems, techniques and strategies needed to apply the marketing concept to the world marketplace. Understanding a country's cultural and environmental impact on the marketing plan is emphasized, as well as competing in markets of various cultures. Worldwide consumerism, economic and social development, the spread of multinational corporations, business ethics, and current economic and marketing issues are examined.

MKTG 3785 Women in International Entrepreneurship: 3 semester hours

Prerequisites: MKTG 3700; MKTG 3780 or INTL BUS 3780; and Junior standing. This course is an integration of international business and entrepreneurship, with a focus on women entrepreneurs. It is designed to help students learn how entrepreneurs create and grow their ventures internationally. We will examine how entrepreneurs search, evaluate, and exploit opportunities across national boundaries to market goods and services effectively. We will explore the unique circumstances faced by women entrepreneurs and the appropriate strategies developed in order to sustain international growth.

MKTG 3787 Marketing in the European Union: 3 semester hours
Same as INTL BUS 3787. Prerequisites: MKTG 3780 or instructor's
permission. The European Union (EU) is both a major customer and major
competitor of the United States. The inclusion of many of the Eastern
European countries into the EU has added another challenge to our ability
to trade in this area. The better we understand the people, institutions and
policies of the EU, the better positioned we will be to conduct business
effectively. This course will emphasize understanding the institutional
structure that unites the European Union as well as the cultural and
political diversity of its members, and provide insights into how business

MKTG 3790 Internship In Marketing: 1-3 semester hours

activity functions in the European Environment.

Prerequisites: A minimum campus GPA of 2.0; one must have completed and/or be currently enrolled in at least 6 credit hours of Marketing electives and have consent of supervising marketing instructor and Area Coordinator. A Business College GPA of 2.5 is also required. Students are employed in the field of Marketing where they apply the knowledge and skills learned in the classroom. Professional development and obtaining specialized work experience are primary goals. A Marketing faculty member will monitor the student's program with the student providing a formal written report at the end of the project. BA 3790 may be counted toward the minimum credit hours of marketing electives required for a marketing emphasis.

MKTG 3795 Special Administration Problems - Marketing: 1-10 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. Study of selected special problems in business and administration. May be repeated for credit with different topics.

MKTG 3798 Seminar in Marketing: 1-3 semester hours

Prerequisite: To be determined each time the course is offered and to include a minimum 2.0 overall GPA. This course is a selected special topic in the field of marketing. May be repeated for credit with different topics.

MKTG 3799 Independent Study In Marketing: 1-3 semester hoursPrerequisites: Minimum campus g.p.a. of 2.0 and approval by the supervising professor and the area coordinator. Special individual study in marketing under the supervision of a full-time marketing faculty member.

MKTG 4700 Marketing Management: 3 semester hours

Prerequisites: MATH 1105, MKTG 3700, three other marketing elective courses, senior standing, and a 2.0 campus GPA An intensive analysis of major marketing decisions facing the firm, such as level, mix, allocation, and strategy of marketing efforts. Specific decision areas investigated include market determination, pricing, physical distribution, product policy, promotion, channel management, and buyer behavior. Competitive, political, legal, and social factors that may affect such areas of decisions are discussed. Cases, models, and problems are used heavily.

MKTG 5700 Contemporary Marketing Concepts: 3 semester hours

Prerequisite: BUS AD 5000 Designed for students with no prior course work in the field of marketing. A wide spectrum of marketing institutions and activities is covered. The impact of marketing on the total firm, the economy, and society in general is assessed. The course is intended to develop and organize the fundamental marketing concepts necessary to an analytical study of consumer behavior, the economic environment and four managerial aspects of marketing. The acquisition and utilization of marketing research data for problem solving is stressed. Relation and integration of basic marketing knowledge to the successful development of sound marketing policy, planning, and strategy is developed.

MKTG 5701 Marketing Planning And Strategy: 3 semester hours

Prerequisite: MKTG 5700 Emphasizes the development of a total
marketing program through an analytical study of the marketing-mix, the
diagnosis of the business situation, along with the influence of exogenous
variables and the development of an effective overall marketing strategy.

Stresses importance of an integrated marketing plan and utilizes modern
decision-making tools. Supplementary readings, journal articles, and
current periodicals are used to place the theoretical framework of the
course into the contemporary environment of the market place.

MKTG 5710 Consumer Motivation And Behavior: 3 semester hours
Prerequisite: MKTG 5700. An analysis of the socio-psychological
foundations of consumer behavior including personality differences, needs
and wants, status symbols, social change and mobility, fads and fashions.
Consumer spending and saving habits, product preferences, leisure-time
patterns, shopping behavior and motivation research also are examined
for their impact on advertising, selling and marketing management.

MKTG 5720 Marketing Communications: 3 semester hours

Prerequisite: MKTG 5700. Deals with managerial decision making by placing particular emphasis on assimilating and integrating all forms of marketing communication in the development of promotional policies, plans and procedures. Course approach is analytical rather than descriptive in investigating the aress of advertising, public relations, sales management, packaging and other forms of demand stimulation.

MKTG 5721 Digital Media Marketing Strategies and Measurement: 3 semester hours

Most every business today needs a digital marketing strategy to engage with current customers and attract new. Consumers are changing the way they communicate with and research brands. Brands are changing the way they promote and engage with consumers. We are embracing digital technologies to communicate in ways that were inconceivable just a few short years ago. We have shifted our attention from traditional media marketing to internet, wireless devices, and other digital platforms. In this course you will assess the various marketing channels; the importance of establishing a social media strategy; understand the digital trends that are shaping the future; experiment with today's cutting edge digital marketing tools (licensed and free) including Adobe SiteCatalyst, Radian6, Lithium, Alexa, and Hootsuite to name a few; learn how to develop a digital marketing plan; how we define key performance indicators (KPI's); techniques used to measure the ROI of your digital campaigns; marketing mix and campaign attribution. Guest speakers will include such companies as MTV, Nickelodeon, PepsiCo, IBM, ForeSee, Klout, Ogilvy, Sprinklr, TrendrrTV. This class will require group projects in addition to weekly homework and reading assignments. Course materials will be developed by the professor and will be distributed digitally.

MKTG 5722 Social Media Marketing Strategy: 3 semester hours

MKTG 5740 Marketing And Business Research: 3 semester hours

Prerequisites: MKTG 5700 and LOG OM 5300. A broad approach to marketing research as a model for acquiring, retriving, and analyzing decision-making information. Includes market measurement, evaluation of sales and cost effectiveness, sales forecasting and primary marketing research studies aimed at solving specific problems. Emphasis is placed also on building a theoretical and analytical framework to provide flexibility in the design of marketing experiments and in judging recent research innovations.

MKTG 5750 Sales Management: 3 semester hours

MKTG 5761 Business To Business Marketing: 3 semester hours

The course provids graduate students with an understanding of the role of business to business marketing as it pertains to business, government, and institutional customers. The course places a heavy emphasis on buyer-seller interaction embodying business to business marketing. In addition to discussing the standard theories and covering the subject domain of business marketing, the course focuses on the finer aspects of business to business marketing negotiations using exercises and readings Student groups enact complex industrial buyer-seller negotiations striving to achieve their respective organizational goals.

MKTG 5770 Supply Chain Management Strategy: 3 semester hours

Prerequisite: Consent of instructor Course addresses supply chain management and its implications, with a focus on what firms can do to maintain competitiveness in the quickly changing business landscape. Topics may include, but are not limited to, value chain analyses, marketing business-to-business, supply chain analytics, procurement, production, logistics, and inventory management within supply chains.

MKTG 5775 Domestic Transportation: 3 semester hours

Domestic Transportation is the study of North American transportation modes, their management and operating characteristics. This graduate course is part of the Mid-West Transportation Consortium where UMSL, along with 5 other Universities, provides guest lectures that comment on aspects of transportation. UMSL students concentrate on the business aspects of transportation.

MKTG 5780 Seminar In International Marketing: 3 semester hours

Same as INTL BUS 5780. Prerequisite: MKTG 5700 An advanced seminar on topics in international or global marketing. Possible topics include the globalization of trade, export marketing, international market opportunity analysis, and negotiation for international marketers. Students who take one version of this course (e.g., globalization of trade) can take a second version of the course (e.g., negotiation for international marketers) with prior permission.

MKTG 5790 Internship in Marketing: 3 semester hours

Prerequisites: Students must have completed and/or be enrolled in at least 6 credit hours of marketing electives and have consent of supervising faculty member and Area Coordinator. Students work in the field of Marketing where they apply the knowledge and skill learned in the classroom. Professional development and obtaining specialized work experience are the primary goals. The student's program will be monitored by a Marketing faculty member with the student providing a formal report at the end of the project.

MKTG 5795 Seminar In Marketing: 3 semester hours

Prerequisites: MKTG 5700 This course addresses advanced problems in contemporary marketing. Topics may include, but are not limited to, marketing stretegy, marketing communications and advertising, product management, consumer behavior, channels of distribution, international marketing, and marketing research.

MKTG 5799 Individual Research in Marketing: 1-3 semester hoursPrerequisites: Consent of instructor and graduate director. Special individual research topics in marketing under the guidance of a specific professor.

Quantitative Management Science Courses

QN MGT S 6360 Advanced Operations Research Applications: 3 semester hours

Prerequisite: LOG OM 5350. Application of operation research techniques to business problems. After a brief review of these techniques, followed by an examination of typical applications reported in the literature, the major portion of the term is spent in analyzing and solving an actual business operations research problem. A team approach is used, with groups of two or three students responsible for finding and solving an operations research problem in a local company. Primary emphasis is placed on the use of operations research techniques to solve management problems.

College of Education

College of Education Home Page

About the College

The College of Education is a comprehensive college offering a variety of programs at all levels that lead to exciting and rewarding career opportunities. It takes many types of education professionals to prepare our children, youth and adults for an ever-changing world. The College's faculty, staff, and community partners are committed to providing experiences to build the knowledge and skills needed for individuals to be successful in multiple education settings and occupations. These careers include teachers, principals, and superintendents for K-12 districts, schools, and classrooms; teachers and administrators for informal education organizations like museums, zoos, and nature centers; counselors and mental health professionals for schools, hospitals, corporate employee assistance programs, clinics, and private settings; adult educators and trainers for a variety of career and vocational centers; and higher education leaders and instructors for community colleges, career technical schools, and four-year colleges and universities.

The College has 70 full-time faculty, of which 14 are endowed professors and three are Curator's Teaching Professors, and over 120 part-time faculty with years of direct classroom experience. The College offers six undergraduate degrees, 32 undergraduate teaching certificates, six Masters degrees, many graduate certificate programs, two Educational Specialist degrees, and two Doctoral degrees. By reaching out and partnering with a vast array of educational, business and community resources, our College can provide opportunities for faculty and students to develop professional connections for improving their careers as well as their communities.

Support Services

Student support is provided through the **Office of Advising and Student Services**, 116 South Campus Classroom Building. This office houses professional academic advisors who assist students in meeting the requirements for state teacher certification as well as meeting degree requirements.

The Office of Clinical Experiences and School Partnerships, 121 South Campus Classroom Building, houses professional staff who coordinate teacher education clinical experiences.

Accreditation

The College of Education is fully accredited by the National Council for Accreditation of Teacher Education, now called the Council for the Accreditation of Educator Preparation, and the Department of Elementary and Secondary Education for the preparation of early childhood, elementary, middle, secondary, physical, and special educators and of administrators, counselors, and school psychologists. Additionally, the Council for Accreditation of Counseling and Related Educational Programs accredits our Counseling programs and the National Association for School Psychology accredits our School Psychology program.

Centers and Initiatives

The College hosts many centers and initiatives that enhance the experience of students in our programs. Among these are: the Center for Character and Citizenship; The Center for the Research and Study of Disability, Education, and Culture; the E. Desmond Lee Technology and

Learning Center; the Gateway Writing Project; the Richard Burnett Literacy Clinic; Math and Science Education Central; the School and Family Counseling Center; the Urban Leadership Initiative; and the University Child Development Center. We also sponsor five charter schools.

Course Designations in the College of Education

The following abbreviations are used to indicate instructional areas in the course listings and descriptions in the College of Education.

Adult Education Courses (ADULT ED)

Counselor Education Courses (CNS ED)

Early Childhood Education Courses (ECH ED)

Educational Administration Courses (ED ADM)

Educational Foundations Courses (ED FND)

Educational Psychology Courses (ED PSY)

Educational Research and Evaluation Methods Courses (ED REM)

Educational Technology Courses (ED TECH)

Elementary Education Courses (ELE ED)

Middle Education Courses (MID ED)

Higher Education Courses (HIGHERED)

Health and Physical Education Courses (HLTH PE)

Physical Education (PHY ED)

College#Wide Education Courses (EDUC)

Secondary Education Courses (SEC ED)

Special Education Courses (SPEC ED)

Teacher Education Courses (TCH ED)

Teacher Education

Degrees and Areas of Concentration

Students may earn teacher certification in the fields of elementary education, early childhood education, middle school, music education, physical education special education (cross categorical), art education, as well as the secondary education areas of biology, chemistry, English, foreign languages (French, German, Spanish), mathematics, physics, social studies, and speech/theater. Graduate programs leading to certification are also offered in counseling, reading, school administration (elementary and secondary principal, school superintendent), and special education.

The following certification programs are designed to provide the following learning outcomes. Upon successful completion of the programs, education candidates will:

- Understand the central concepts, tools of inquiry and structures of the discipline(s) within the context of a global society and creates learning experiences that make these aspects of subject matter meaningful for students.
- Understand how students learn and develop, and provides learning opportunities that support the intellectual, social, and personal development of all students.
- Understand how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.
- Recognize the importance of long-range planning curriculum development and develops, implements and evaluates curriculum based upon student, district, and state performance standards.
- Use a variety of instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills.

- Use an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
- Model effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.
- Understand and use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
- Develop skills to become a reflective practitioner who continually assesses the effects of choices and actions on others. This reflective practitioner actively seeks out opportunities to grow professionally and utilizes the assessment and professional growth to generate more learning for more students.
- Foster relationships with school colleagues, parents, and educational partners in the larger community to support student learning and wellbeing.
- Understand theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

General Education Requirements

Students in the College of Education must meet university and departmental general education requirements (https://nextbulletin.umsl.edu/generalregulations/undergraduatestudy/#generaleducationrequirementstext) specified for their degree programs.

Academic Residence

Students must be in residence for 30 of the last 30 semester hours of credit. Courses graded on a satisfactory/ unsatisfactory basis are not accepted within these last 30 semester credit hours. This residency requirement applies to students seeking a degree or teacher certification.

Education Majors

Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C (2.0).

Beginning with those students graduating in May, 2017 and receiving teacher certification, the Missouri Department of Elementary and Secondary Education requires a 3.0 GPA in professional education courses, a 3.0 GPA in the teaching content field, and a 2.75 overall GPA.

Admission to the College of Education

Any students who designate education degree programs as their intended degree paths will have Education as their assigned academic unit.

Students admitted to the College of Education and also seeking teacher certification must also be admitted to the Teacher Education Program.

Application and Admission to the Teacher Education Program

All students (pre- and post-degree) who wish to become teachers must be admitted to the Teacher Education Program. Applications to the Teacher Education Program are processed through the Office of Advising and Student Services (OASIS). Eligibility is based upon fulfillment of the following requirements:

 Submission of qualifying scores on C-BASE or other qualifying exam approved by the Missouri Department of Elementary and Secondary Education in areas of English, writing, mathematics, science and social studies. Students should consult OASIS, for test descriptions, cost, required scores, dates of administration, retest policies, etc. Acceptable CBASE scores are required in addition to documented ACT or SAT scores. (Students who have an earned bachelor's degree are not required to pass the CBASE test. Graduates of the general studies program at UMSL, however, must take the CBASE).

- Completion of 60 hours of college or university courses (at UMSL or another accredited school).
- · A grade point average of 2.5 or higher.
- Completion of level one courses, or the equivalent, with a grade of C or better.
- Approved results of criminal record check and child abuse/neglect screening.

General Information

It is important that students meet with an academic advisor in the Office of Advising and Student Services once each semester. Students should contact the office at 314-516-5937 to make an advising appointment.

Practica Semesters

All teacher certification program students, except for those enrolled in music education, participate in a year-long practica in teaching. Students complete one electronic application two semesters prior to the student teaching experience for both the internship and student teaching semesters. The Professional Internship is a three credit hour course for all programs except Physical Education. The PE internship is a two credit hour course. All practica are taken the semester before student teaching and involving one full day each week at the school site. During the following student teaching semester, normally located at the same internship school, students attend their site full time, five days per week. Practica 12 hour course.

Application to Practica

Deadlines for the Formal Application may be obtained in the Office of Advising and Student Services. *Check My Gateway (https://mygateway.umsl.edu/webapps/portal/frameset.jsp) and the student teaching bulletin board in Marillac Hall for exact date.

Upon receipt, formal applications for both pre- and post-degree students are checked to ensure they have met the following requirements:

- Admission to the teacher education program for both pre and post degree students.
- A cumulative grade point average of 2.5 or above by the semester prior to the semester in which students plan to student teach. The 2.5 cumulative grade point average must be maintained in order to graduate with a B.S. in education degree and/or be certified to teach in the state of Missouri.
- Grade point average of 2.5 in the teaching field (secondary education students only).
- A grade of C or higher in all professional education courses so designated. Lists of these courses available in the OASIS office and from advisers.
- Completion of TB screening, Missouri Care Registry check.
- Undergraduate students are required to have passed all five sections of the CBase Test.
- Completion of TB screening, police, and child abuse checks.

The student teaching experience in the early childhood, music, physical education, and special education certification programs provides

opportunities in a variety of settings. Students will be expected to student teach on a full-day basis for 14-weeks during an entire semester. The student teaching experience must be completed in residence. Secondary student teaching in science education, mathematics education, and foreign language education is offered during the winter semester only.

For further information regarding requirements and certification, contact the Office of Advising and Student Services 116 SCCB or the College of Education Advising Home Page (http://coe.umsl.edu/w2/Advising%20-%20OASIS).

Application for Degree and/or Certificate Bachelor of Science in Education (B.S. Ed)

Candidates for the B.S.Ed. degree must complete degree and certificate application forms in the Office of Advising and Student Services when they apply for admission to internship/student teaching or during the semester before the one in which they expect to finish degree requirements. See information below on the on PRAXIS examination.

The College of Education requires a background check, current within one year, for every UMSL student in the teacher education program. Please note that students applying for certification are responsible for a more thorough fingerprint background check as required by Missouri State Law. All background check information will be available to students upon their request.

Bachelor of Educational Studies (B.E.S.)

Candidates should consult the Office of Advising and Student Services or (314) 516-5397 for more information. This degree offers two areas of study: Early Childhood and Professional Studies and does not qualify for Missouri Teacher Certification.

Certification

In cooperation with the Missouri State Department of Elementary and Secondary Education, the College of Education is responsible for recommending all qualified students for state teacher certification.

All individuals must pass the appropriate exit assessment and/or certification requirements. This exam should be taken during the semester immediately prior to student teaching.

Graduate Level Certification Program

Applicants who hold a Bachelor's degree can enroll in this program to earn secondary education certification. Coursework is determined by the College of Education advisers and Arts and Sciences joint appointee faculty members. The following are education course requirements:

Coursework includes:

Instructional Design (includes 14 clock hours of field experience)	3
Foundations Of Education (includes 10 clock hours of field experience)	4
Learning And Development In Secondary School Settings (includes 8 clock hours of field experience)	4
Differentiated Instruction (includes 12 clock hours of field experience)	4
Practicum I: Site Based Experience (includes 84 clock hours of field experience)	3
	field experience) Foundations Of Education (includes 10 clock hours of field experience) Learning And Development In Secondary School Settings (includes 8 clock hours of field experience) Differentiated Instruction (includes 12 clock hours of field experience) Practicum I: Site Based Experience (includes 84

SEC ED 4990 Practicum II: Site Based Experience (full days in a 12 school for one semester)

Students seeking certification via this program must meet with the Teaching & Learning Post Baccalaureate Advisor and secondary education faculty members in the content (teaching) area to plan specific programs and review requirements. Students may contact the advisor at 314-516-5937.

Graduate Studies in Education Degrees and Areas of Emphasis

The College of Education offers Master of Education (M.Ed.), Educational Specialist (Ed.S.), and doctoral degrees at the graduate level. The M.Ed. degrees and the emphasis areas are:

Adult and Higher Education

- Adult Education
- Higher Education

Counseling

- Community Counseling
- . Elementary School Counseling
- · Secondary School Counseling

Educational Administration

- · Community Education
- Elementary Administration
- Secondary Administration

Elementary Education

- · Early Childhood Education
- · General emphasis
- Reading emphasis

Secondary Education

- · Curriculum and Instruction
- General
- · Middle Level Education
- Reading
- Teaching English to Speakers of Other Languages

Special Education

- Autism & Development Disabilities
- · Cross Categorical Disabilities
- Early Childhood/Special Education

Courses are available for areas of specialization within the M.Ed. programs, including educational technology, physical education, educational psychology, and the various secondary school subject areas.

Ed.S. degree programs are available in school psychology and educational administration.

Programs leading to the Ed.D. degree are offered in four broad interdisciplinary emphasis areas: Educational Administration; Adult & Higher Education; Teaching-Learning Processes; and Counselor

Education. Programs leading to the Ph.D. degree are offered in the areas of Counseling, Educational Psychology, Teaching-Learning Processes, and Educational Leadership and Policy Studies.

Master of Education Degree

The Masters of Education Degree programs are designed for graduates to attain the following learning outcomes:

- Understand the major theories in the discipline of study.
- Attain a solid foundation in the overall field of education in general, including areas of social justice, educational leadership and advocacy, educational psychology and research.
- · Attain a depth of knowledge in the primary discipline.
- · Think critically.
- Develop skills as a reflective practitioner to be able to create and sustain change.
- · Conduct teacher research.

Admission and General Requirements

The College of Education follows Graduate School policies relating to admissions, academic standards, residency, transfer credit, time limitations, and thesis options (see Graduate Study in this Bulletin). In addition to meeting the general requirements of the Graduate School, applicants for school or community counseling must complete a separate application (see graduate studies in the Counseling division in this Bulletin). The minimum number of hours required for the M.Ed. degree is 32 or 33 except that the elementary, secondary, and community counseling emphases require 48 hours. The school has adopted a flexible policy on exit requirements, which are determined divisionally.

Advisement and Program Planning

Upon acceptance, each student can contact the Office of Graduate Education for an appointment with the graduate advisor for a first semester course of study (314) 516-5483 or NAshford@umsl.edu). After acceptance, each student completes an adviser form, sent by the College of Education's Office of Graduate Education, 123 SCCB. A faculty adviser is then appointed who counsels the student in registration and program planning. A program for master's degree form must be submitted for approval during the first half of the student's program. This form includes all course work in the program and the exit requirement. Once approved, the degree program may be changed only by petition.

Students working toward teacher and/or school service personnel certification as graduate students should complete state certification forms in the Teacher Certification and Advising Office, 155 Marillac Hall, one year before those requirements will be completed.

Educational Specialist Degree

The Ed.S. degree is intended for school personnel preparing for a specific role, either that of a school psychologist or that of a school building or district administrator. The programs require 60 hours of postbaccalaureate course work designed to meet the respective Missouri certification requirements. The Ed.S. in School Psychology degree program requires three years of intensive, full-time, training but students may be able to complete up to half of the curriculum as a part-time student. The Ed.S. in Educational Administration can be pursued on a part time or a full time basis and can include credits taken in an M.Ed. in Educational Administration program.

The Educational Specialist Degree program is designed for graduates to attain the following learning outcomes:

- Expand their knowledge of the major theories in their area of specialty.
- Attain a solid foundation in the field of education in general and a depth of knowledge in the specialty.
- · Think critically.
- Develop skills to become a reflective practitioner.
- Mentor teachers and other practitioners as a specialist in a specific area
- · Understand research methods in education.
- Conduct research.
- Demonstrate leadership skills and attributes.

Admission and General Requirements

The College of Education follows Graduate School policies relating to admissions, academic standards, residency, transfer credit, time limitations, and exit requirements. Specific materials required for application vary by program, but generally applicants should submit an application to The Graduate School, transcripts of previous college work, GRE scores, and letters of recommendation.

Advisement and Program Planning

For advising and program planning, school psychology students should contact the Division of Educational Psychology, Research and Evaluation, 402 Marillac Hall, 314-516-5783. Educational administration students should contact the Division of Educational Leadership and Policy Studies, 269 Marillac Hall, 314-516-5944.

Doctor of Education in Educational Practice Degree (pending CBHE approval)

The Ed.D. in Educational Practice degree is designed for educational practitioners interested in: (1) leading critical analyses of existing problems of practice and (2) proposing solutions to those problems of practice that can be assessed for effectiveness. Students are admitted to a learning community of practice, under the mentorship of a faculty team, that focuses on an area of educational practice (theme).

The Ed.D. in Educational Practice is designed for graduates to attain the following learning outcomes, based on the Carnegie Project on the Education Doctorate-inspired principles for the professional practice doctorate in Education:

Generates solutions to complex problems of practice that are equitable, ethical, and socially just

- Constructs and applies knowledge to make a positive difference in educational environments
- Demonstrates collaboration and communication skills in working with diverse communities and in building partnerships
- Possesses a professional knowledge base that integrates practical and research knowledge
- · Links theory with systemic and systematic inquiry
- · Generates, transforms, and uses professional knowledge and practice
- · Understands the value and function of building a community of practice

Students seeking the Ed.D. degree are expected to meet the Graduate School's (p. 491) relevant practitioner doctoral degree requirements and procedures.

University of Missouri-St. Louis

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Degree requirements

1.	Learning Com	munity of Practice Seminars	15-20
	EDUC 7600 (p. 313)	Learning Community of Practice I	
	EDUC 7610 (p. 313)	Learning Community of Practice II	
	EDUC 7620 (p. 313)	Learning Community of Practice III	
	EDUC 7630 (p. 313)	Learning Community of Practice IV	
	EDUC 7640 (p. 313)	Learning Community of Practice V	
	EDUC 7650 (p. 313)	Learning Community of Practice VI	
2.	Laboratory of	Practice	
	EDUC 7889 (p. 313)	Laboratory of Practice	

1	3. Common Cou	irses	8
	EDUC 7605 (p. 313)	Scholarship of Teaching and Learning in Educational Practice	
	EDUC 7615 (p. 313)	Evaluation of Educational Programs	
	EDUC 7625 (p. 313)	Building Socially Just Educational Communities	
	EDUC 7635 (p. 313)	Ethical and Legal Issues in Educational Practice	

4. Inquiry Approach Electives, minimum 4 hours selected from the following:

	Ū	
	EDUC 7205 (p. 313)	Action Research for Educational Practitioners
	EDUC 7210 (p. 313)	Survey Design for Educational Practitioners
	EDUC 7215 (p. 313)	Data Analysis for Educational Practitioner
	EDUC 7220 (p. 313)	Designing Research for Educational Practitioners
	EDUC 7225 (p. 313)	Ethnography for Educational Practitioners
	EDUC 7230 (p. 313)	Interviewing for Educational Practitioners
	EDUC 7295 (p. 313)	Inquiry Seminar for Educational Practitioners

5. Tool Course Electives, minimum 4 hours selected from the following:

EDUC 7305 (p. 313)	Representing Data for Educational Practitioners	1
EDUC 7310 (p. 313)	Integrating Technology in Learning for Educational	1
EDUC 7315 (p. 313)	Project Management for Educational Practitioners	1
EDUC 7320 (p. 313)	Financial and Budgeting Skills for Educational Practitioners	1
EDUC 7325 (p. 313)	Grant Writing for Educational Practitioners	1
EDUC 7330		1

EDUC 7395 (p.	Tool Seminar for Educational Practitioners	1
313)		
6. Specialization		30-60

Courses in an area of specialization (can include Master's or

Education Specialist work)
7. Dissertation in Practice

Total: minimum 80 hours, post-bacclaureate

Doctor of Education Degree

The Ed.D. degree is a research degree for practitioners and prepares professional leaders who are competent in identifying and solving complex problems in education. Four emphasis areas embrace general categories of professional activities: Educational Administration; Adult & Higher Education; Teaching-Learning Processes; and Counselor Education. The Educational Administration emphasis permits students with Ed.S. degrees in Educational Administration to complete the research course and dissertation requirements for a doctorate.

The Ed.D. program is designed for graduates to attain the following learning outcomes:

- Understand the major theories in their primary and secondary disciplines.
- Attain a solid foundation in the field of education in general and a depth of knowledge in the primary discipline.
- · Think critically.
- · Locate literature in the primary and secondary disciplines.
- · Understand research methods in education.
- · Conduct research.

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· Demonstrate leadership skills and attributes.

Students seeking the Ed.D. degree are expected to meet the Graduate School's doctoral degree requirements and procedures.

Admission and General Requirements

In addition to meeting the application and admissions requirements of the Graduate School, students must submit three letters of recommendation (two letters must be from individuals with an earned doctorate, preferably prior instructors), along with a professional resume. Because enrollment is competitive, admission standards are comparatively high. Successful candidates must exhibit significantly above-average academic records and GRE scores. In exceptional cases, other criteria may outweigh these customary indicators of probable academic success. Applicants to the Counselor Education option are considered once per calendar year with an application deadline of December 1st. Applicants for the other options are considered twice per year with application deadlines of October 1st and March 1st.

At least two years of teaching or other school service experiences are required for admission. Exceptions may be made by substituting a supervised internship during the first year of the program.

Admission Application

To ensure time for review and decision, applicants must complete the Graduate School's and program applications and submit accompanying materials in a timely manner. In addition, applicants are urged to request transcripts and letters or recommendation two weeks before completing the online application. Consideration of applications cannot be undertaken until all materials are available.

Degree Requirements 1

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1.	Foundations		12
12	2 hours from the	following:	12
	anthropologica	nistorical, psychological, sociological, I, and comparative foundations of education, as well instruction and supervision.	
2.	Research Meth	hods	12
St	udents in the Ed	ducational Administration, Adult and Higher	
		eaching-Learning Processes options should	
CC	emplete the follo	wing or equivalent in order: ²	
	ED REM 6735 (p. 313)	Statistical Analysis For Education Research (pre- requisite)	
	ED REM 6750 (p. 313)	Advanced Research Design In Education	
	Plus any two m	nethods courses from the following:	
	ED REM 7771 (p. 313)	Quantitative Research Methods I	
	ED REM 7772 (p. 313)	Quantitative Research Methods II	
	ED REM 7781 (p. 313)	Qualitative Methods In Educational Research I	
	ED REM 7782 (p. 313)	Qualitative Methods In Educational Research II	
F	or Ph.D. student	s in the Counseling emphasis area, the	
re	commended se	quence is:	
	O REM 6718 (p. 13)	Psychoeducational Assessment And Intervention	3
	ED REM 7771 (p. 313)	Quantitative Research Methods I	
	ED REM 7781 (p. 313)	Qualitative Methods In Educational Research I	
	Select one of the	ne following:	
	O REM 7772 (p. 13)	Quantitative Research Methods II	3
	ED REM 7782 (p. 313)	Qualitative Methods In Educational Research II	
3.	Common doct	oral seminars	6
	EDUC 7050 (p. 313)	The Research Process I:Framing Research Questions Within Educ Lit	
	or CNS ED 702 (p. 313)	26eminar In Counseling Research	
	OUC 7950 (p. 13)	Research Process II: Developing & Refining Ed Research Proposals	3
4.	Major Speciali	zation	21-3
E	ducational Admi	nistration Option	
CC		nistration (ED ADM) or other courses selected in the advisory committee, including internship (3-9	
	,	Education Option	
	_	ADULT ED) or Higher Education (HIGHERED) or	
		ected in consultation with the advisory committee,	
in	cluding internshi	ip (3-9 hours)	

Teaching-Learning Processes Option

Teacher Education (TCH ED) courses or courses in education in a teaching field, including courses on curriculum construction and the design and improvement of instruction, all selected in consultation with the advisory committee, including internship (3-9 hours)

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Counselor Educat	ion Option(30 hours)	
CNS ED 6410 (p. 313)	Advanced Career Development	3
CNS ED 6600 (p. 313)	Theories and Techniques of Counseling Children and Adolescents	3
CNS ED 7000 (p. 313)	Advanced Theories And Foundations Of Counseling Psychology	3
CNS ED 7010 (p. 313)	Advanced Multicultural Counseling	3
CNS ED 7030 (p. 313)	Counselor Education And Supervision	3
CNS ED 7035 (p. 313)	Counselor Education & Supervision Practicum	3
CNS ED 7400 (p. 313)	Advanced Topics in School Counseling Leadership	3
CNS ED 7770 (p. 313)	Doctoral Practicum	3
CNS ED 7780 (p. 313)	Doctoral Internship	6
5. Minor Specializ	zation	12-18

A secondary area of expertise identified in consultation with the advisory committee

6. Dissertation 12

EDUC 7999 Dissertation Research (p. 313)

- ¹ Minimum 90 hours, postbaccalaureate.
- This sequence totals 12 hours of methods courses. Any remaining required hours could be completed with other ED REM courses numbered 6000 or higher or research courses in another curriculum.
- Or, for student in Counselor Education, CNS ED 7020 (p. 313) Seminar In Counseling Research, may be taken in the place of EDUC 7050 (p. 313).

Total: minimum 90 hours, postbaccalaureate

Doctor of Philosophy Degree

The Ph.D. degree in education, offered in cooperation with the School of Education at the University of Missouri- Kansas City and the College of Education at the University of Missouri-Columbia, is designed for educators who desire directed research experience promoting scholarly inquiry in education. Four emphases are available:

- Teaching-learning processes
 - · Educational leadership and policy studies
 - · Educational psychology
 - Counseling

The Ph.D. program is designed for graduates to attain the following learning outcomes:

 Understand the major theories in their primary and secondary disciplines.

3

6

3

21-39

12-18

- Attain a breadth of knowledge in education in general and a depth of knowledge in the primary discipline.
- · Think critically.
- · Locate literature in the primary and secondary disciplines.
- · Understand research methods in education.
- · Conduct research.
- · Demonstrate leadership skills and attributes.

Admission and General Requirements

In addition to meeting the application and admissions requirements of the Graduate School, students must submit:

- Three letters of recommendation (at least two from individuals with earned doctorates, preferably prior instructors).
- · An original essay.
- · A professional resume.
- Evidence of above-average academic records.
- · GRE scores.

Admission is competitive, and a favorable vote of an admission interview committee, composed of faculty in the emphasis area, is required.

Admission Application

To ensure time for review and decision, applicants must complete the Graduate School's and program applications and submit accompanying materials in a timely manner. In addition, applicants are urged to request transcripts and letters or recommendation two weeks before completing the online application. Consideration of applications cannot be undertaken until all materials are available. The deadline for applying to the Counseling emphasis is December 1st. Applicants for the other options are considered twice per year with application deadlines of October 1st and March 1st.

Degree Requirements ¹	
1. Foundations	12
12 hours from the following:	12
philosophical, historical, psychological, sociological, anthropological, and comparative foundations of education, as well as curriculum, instruction and supervision.	
2. Research Methods	12
Students in the Educational Administration, Adult and Higher Education, and Teaching-Learning Processes options should	
complete the following or equivalent in order: ²	
ED REM 6735 Statistical Analysis For Education Research (pre- (p. 313) requisite)	
ED REM 6750 Advanced Research Design In Education (p. 313)	
Plus any two methods courses from the following:	
ED REM 7771 Quantitative Research Methods I (p. 313)	
ED REM 7772 Quantitative Research Methods II (p. 313)	
ED REM 7781 Qualitative Methods In Educational Research I (p. 313)	
ED REM 7782 Qualitative Methods In Educational Research II (p. 313)	

For Ph.D. students in the Counseling emphasis area, the recommended sequence is:

ED REM 6718 (p. Psychoeducational Assessment And Intervention 313)

ED REM 7771 Quantitative Research Methods I (p. 313)

ED REM 7781 Qualitative Methods In Educational Research I (p. 313)

Select one of the following:

ED REM 7772 (p. Quantitative Research Methods II 313)

ED REM 7782 Qualitative Methods In Educational Research II (p. 313)

3. Common doctoral seminars

EDUC 7050 The Research Process I:Framing Research (p. 313) Questions Within Educ Lit

or CNS ED 702Seminar In Counseling Research (p. 313)

EDUC 7950 (p. Research Process II: Developing & Refining Ed 313) Research Proposals

Educational Administration Option

4. Major Specialization

Educational Administration (ED ADM) or other courses selected in consultation with the advisory committee, including internship (3-9 hours)

Adult and Higher Education Option

Adult Education (ADULT ED) or Higher Education (HIGHERED) or other courses selected in consultation with the advisory committee, including internship (3-9 hours)

Teaching-Learning Processes Option

Teacher Education (TCH ED) courses or courses in education in a teaching field, including courses on curriculum construction and the design and improvement of instruction, all selected in consultation with the advisory committee, including internship (3-9 hours)

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Counselor Educat	tion Option(30 hours)	
CNS ED 6410 (p. 313)	Advanced Career Development	3
CNS ED 6600 (p. 313)	Theories and Techniques of Counseling Children and Adolescents	3
CNS ED 7000 (p. 313)	Advanced Theories And Foundations Of Counseling Psychology	3
CNS ED 7010 (p. 313)	Advanced Multicultural Counseling	3
CNS ED 7030 (p. 313)	Counselor Education And Supervision	3
CNS ED 7035 (p. 313)	Counselor Education & Supervision Practicum	3
CNS ED 7400 (p. 313)	Advanced Topics in School Counseling Leadership	3
CNS ED 7770 (p. 313)	Doctoral Practicum	3
CNS ED 7780 (p.	Doctoral Internship	6

A secondary area of expertise identified in consultation with the advisory committee

313)

5. Minor Specialization

6. Dissertation

EDUC 7999 Dissertation Research (p. 313)

- Minimum 90 hours, postbaccalaureate.
- This sequence totals 12 hours of methods courses. Any remaining required hours could be completed with other ED REM courses numbered 6000 or higher or research courses in another curriculum.
- Or, for student in Counselor Education, CNS ED 7020 (p. 313) Seminar In Counseling Research, may be taken in the place of EDUC 7050 (p. 313).

Admission and General Requirements

In addition to meeting the application and admissions requirements of the Graduate School, students must submit a supplemental application including a professional resume, transcripts of all higher education work attempted, a writing sample, verification of employment in educational practice related to the learning community theme, verification of at least two years of experience in practice, and three letters of recommendation. A Master's degree or successful graduate work is required. Admission is competitive. The minimum residency requirement is 42 credits.

The deadline for complete application packets is April 1st to be considered for study beginning the following fall. Check the College of Education website for a list of learning communities and their upcoming admissions windows. Transcripts should be requested well in advance of the deadline date. Only complete application packets will be considered.

Educational Technology Courses

ED TECH 3135 Technology for Educators: 1 semester hour

This course will instruct teacher candidates in the use of digital tools in education. Candidates will develop strategies for incorporating current technology developments and social media in educational practice.

ED TECH 4436 Computer-Mediated Communication in Education: 3 semester hours

Explores the theory, research, and practice of using computer-mediated communication and computer-supported collaborative learning in education. Learning environments including elementary, secondary, higher, and adult education will be considered.

ED TECH 5301 Introduction To Computers And The Internet In Education: 3 semester hours

The course focuses on how computers and the internet have changed teaching and learning; how teachers can facilitate learning in inquiry-based, technology-rich classrooms; and on the design and implementation of technology-rich activities and projects. Introduces students to the networked computer as an instructional tool. Course participants will be introduced to how teachers and their students can use computer tools in appropriate ways for different contect areas and educational levels. Practices to be explored include making presentations; searching for information and educational resources; organizing writing, and displaying information and data.

ED TECH 5340 Selection And Utilization Of Educational Multimedia: 3 semester hours

Prerequisites: ECH ED 5301 or consent of instructor Prepares students for selecting and utilizing multimedia technologies for learning. Students will conduct projects involving educational multimedia programs available on computers or over telecommunications networks. The projects will incorporate graphics, sound, and video. The goal of working on these projects is to prepare students to facilitate others' use of multimedia in classrooms and other educational contexts.

ED TECH 5353 Principles Of Photographic Production For Education: 3 semester hours

Prerequisite: Educational Technology 5340 or consent of instructor. A lecture/demonstration/laboratory course which stresses the application of theories of learning, perception, and retention to the visual medium of still photography. Emphasis on designing and producing photographic material that enhances the teaching-learning process.

ED TECH 6404 Seminar: 1-10 semester hours

Prerequisites: ED TECH 5340 or consent of instructor Seminar in educational technology addressing special issues and topics not normally included in the regular educational technology courses.

ED TECH 6416 Teaching & Learning With Technology: Graphical Representational Tools: 3 semester hours

Prerequisites: ED TECH 5340 or consent of instructor Examines how graphical representation tools can be used to enhance teaching and learning. Students will learn about techniques for visualizing and organizing information and data in science, math, the social sciences, and humanities, and will become familiar with research and practice pertaining to their use in a variety of learning activities and projects.

ED TECH 6435 Instructional Technology And Education Reform: 3 semester hours

Prerequisites: ED TECH 5340 or consent of instructor Students will learn how to foster changes in uses of technology for learning in schools, based on a historical understanding of previous technology reforms, and a critical assessment of recent reforms. Questions addressed included: What did stakeholders predict and hope for with earlier educational technologies, early uses of the computer and networking, and present technological innovations? What actually happened? Why? How can teachers and other educators help foster and spread effective use of technology for learning?.

ED TECH 6436 Computer-Mediated Communication In Education: 3 semester hours

Prerequisites: ED TECH 5340 or consent of instructor Explores the theory, research, and practice of using computermediated communication and computer-supported collaborative learning in education. Learning environments including elementary, secondary, higher, and adult education will be considered.

ED TECH 6437 Distance Learning Via Networks And Telecommunications: 3 semester hours

Prerequisites: Graduate Standing The course is an investigation in the ways that learning and teaching across the barriers of time and distance are similar to and different from face to face learning and teaching. Students will study the influence of interactive media: videoconferencing, asynchronous discussions and other commonly used methods.

ED TECH 6444 Cognition And Technology: 3 semester hours

Same as ED PSY 6444. Prerequisites: ED PSY 6111 or consent of instructor Examines cognitive theories and computer-based tools for learning. Students will gain a critical understanding of the relationship between the design of technological tools, the use of those tools in educational settings, and their implications for learning.

ED TECH 6448 Technology-Supported Inquiry Learning: 3 semester hours

Prerequisites: Ed Tec 5340 & Ed Psy 6412 or consent of instructor. Educational technology such as networked computers & software can play a supportive role in inquiry-based learning. Students will explore the theoretical background, design issues, & pragmatic realities of technology-supported inquiry learning environments. Such learning environments are best understood as systems involving social, cultural, material and psychological aspects. Consideration will be given to the important properties of settings, activities and technologies, as well as the role of instructors.

ED TECH 6449 Using Technology In Administration Processes: 3 semester hours

Same as ED ADM 6449. Prerequisites: A course in measurement, statistics or evaluation, or consent of instructor. The course will explore how the use of data analysis with technology can be applied in the administration of schools or other work settings. Administrators will explore software tools and their implications for making decisions. A case study will be completed on the implementation of a technology in a school or other appropriate setting.

ED TECH 6452 Educational Multimedia Design: 3 semester hours

Prerequisite: ED TECH 5340 or consent of instructor. Examines principles and techniques for the design of visually and functionally effective multimedia educational resources. Emphasis will be placed on techniques for the computer-based production of materials incorporating text, graphics, and video Rapid prototyping and evaluation techniques will be incorporated.

ED TECH 6454 Instructional Video Production: 3 semester hours

Prerequisites: ED TECH 5340 or consent of instructor Elements of digital video production will be studied and used to produce video for a variety of formats. Students will develop the skill to produce and stream programs for school news programs, video annuals, documentaries and staff development programs.

ED TECH 6460 Technology Coordination In Schools: 3 semester hours

Prerequisites: ED TECH 5340, ED TECH 6444, and 6448 or consent of instructor. The course provides theoretical and practical knowledge for implementing technology in schools. A major focus will be placed on analyzing the total cost of implementations and methods for measuring educational success.

ED TECH 6462 Technical System Implementation For Educational Technology - Part 1: 3 semester hours

Prerequisites: ED TECH 5340 Provides a foundational understanding of technical systems used in educational institutions, with a special emphasis on preparing and configuring computers to connect to a network. Students will learn theory and practice enabling them to install, troubleshoot and configure networked computers for educational purposes.

ED TECH 6463 Technical System Implementation for Educational Technology Part 2: 3 semester hours

Prerequisites:ED TECH 6462. Provides an in-depth understanding of technical systems used in educational institutions, with a special emphasis on preparing and configuring computers to connect to a network. Students will extend their knowledge of theory and practice, and will install, troubleshoot, configure networked computers for educational purposes.

ED TECH 6490 Internship: 1-10 semester hours

Prerequisite: Consent Of Instructor. Closely Supervised Experience In A Field Setting Under The Direction Of A Graduate Faculty Member. An Appropriate Level Of Competence And Evidence Of Growth In The Professional Role Must Be Demonstrated By The Intern. The Internship Will Include Planning, Research, Evaluation, And Related Professional Activities

ED TECH 6497 Problems: 1-10 semester hours

Prerequisite: ED TECH 5340 or consent of instructor. Individual study on topics pertaining to educational technology.

Education Courses

EDUC 1000 Effective Career Decision Making for Educators: 3 semester hours

The First Year Experience (FYE) course is intended for students who are enrolled in their first year of study at the university or those transferring to the university from other institutions. This course introduces students to considerations in choosing future career, challenges, goals and major responsibilities of the education profession and strategies for succeeding in the university environment. Students will be engaged in participatory activities in class and in assignments outside of class time, visiting schools and community resource and agencies. This course is designed to introduce students to a variety of activities and experiences used in building knowledge of self, academic majors, education careers, college, and the workplace.

EDUC 2204 Special Topics In Education: 1-3 semester hours

Prerequisite: Completion of 75 hours and consent of instructor. Examination of a special area or topic within the field of education. Topics to be considered will be announced prior to registration and may vary. For elective credit only. This course may be repeated for different topics. Not to exceed a total of six hours credit.

EDUC 2290 Internship I: 6 semester hours

Prerequisites: senior standing and consent of instructor Field experience in educational setting under university supervision. Includes planning, research, evaluation and other professional activities in the student's area of concentration.

EDUC 2291 Internship II: 6 semester hours

Prerequisites: Completion of or concurrent enrollment in EDUC 2290. Continuation of EDUC 2290.

EDUC 2297 Independent Study: 1-3 semester hours

Prerequisite: Completion of 75 hours and consent of instructor. Independent study through readings, research, reports and conferences designed to provide depth in areas of study previously introduced in education courses. For elective credit only. May be repeated. Not to exceed a total of three hours credit.

EDUC 5006 Graduate Workshop: 1-10 semester hours

Prerequisite: Consent of instructor.

EDUC 5993 Practicum In Individualized Instruction: 3-6 semester

Prerequisite: Completion of the course(s) to which assigned for instruction and consent of instructor. Supervised instruction in individualized programs. Seminar accompanies instructional experience. May be repeated.

EDUC 6006 Graduate Workshop: 2 semester hours

EDUC 6308 Graduate Institute: 1-10 semester hours

Prerequisite: Consent of instructor.

EDUC 6404 Seminar: 1-10 semester hours

Seminar on an educational topic or special issue not normally included in the regular curriculum.

EDUC 6408 Graduate Seminar: 1-10 semester hours

Prerequisites: Consent of instructor Intensive study of selected issues in education.

EDUC 6491 Staff Development And Professional Growth: 1-10 semester hours

Designed in conjunction with an individual school district or educational agency and related to problems of education confronting that specific district or agency.

EDUC 6998 Thesis Research: 1-10 semester hours

Prerequisite: Consent of instructor.

EDUC 7050 The Research Process I:Framing Research Questions Within Educ Lit: 3 semester hours

Same as ED ADM 7050. Prerequisites: Admission to the Ed.D. or Ph.D. in Education Programs. An overview of the essential elements of research proposals and familiarization with the techniques and tools used to identify important research questions within the education literature. emphasis is placed on exploring the research literature and both framing and justifying research questions within that literature.

EDUC 7205 Action Research for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D cohort or consent of instructor. Study of small-scale simulations that introduce students to the fundamentals of framing relevant questions, working in community, writing field notes, interviewing, technologies to support and help analyze data, and storytelling. Particular attention will be given to representing perspectives of various stakeholders including students, parents, administrators, and colleagues.

EDUC 7210 Survey Design for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Application of relevant theories, research, and pedagogical practices in designing surveys for educational settings. Focus on instrument development and design, forming questions and scales, and sampling methods as well as analysis of results and presentation for various target audiences in educational organizations and settings.

EDUC 7215 Data Analysis for Educational Practitioner: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Guided workshop to conduct quantitative and/or qualitative analysis on data collected by learning communities. Develops specific skills necessary for research, e.g., using software for statistical or qualitative analysis, coding interviews or observation notes for patterns, doing critical discourse analysis, etc.

EDUC 7220 Designing Research for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Guided workshop, applying the principles of research design, to design a study of the research issues selected by the learning community. Course covers how to develop research questions, choose among quantitative and qualitative methods, and consider the best, ethical practices.

EDUC 7225 Ethnography for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. The study of ethnography as a methodolgy to engage in field research and provide the conceptual, theoretical, and empirical knowledge base for action research.

EDUC 7230 Interviewing for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Provides opportunities for developing skills in interviewing individuals and groups to identify, describe, assess and compare educational programs, practices and policies. Emphasis on interviewing experts in the field and research participants in educational research field studies.

EDUC 7295 Inquiry Seminar for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Seminar on a specified approach to inquiry in order to obtain or analyze information of interest to scholar-practitioners leading educational programs through continuous improvement cycles.

EDUC 7305 Representing Data for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. learning community or permission of instructor, Methods for presenting and displaying various types of data to a range of target audiences. Means of assuring accurate representation and the advantages and disadvantages of various methods are reviewed. Displays include tables, graphs, and charts. Current software programs to aid representation are reviewed.

EDUC 7310 Integrating Technology in Learning for Educational: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Appropriate technology tools for carrying out individual or group research and assessment projects will be identified and integrated. The appropriate tools will be learned and applied to present, analyze and complete projects.

EDUC 7315 Project Management for Educational Practitioners: 1 semester hour

Prerequisites: Admission to the Ed.D. program or consent of instructor. Tools for and approaches to managing complex projects in educational organizations, including establishing goals, subdivision of work, formation of work groups, planning and scheduling, establishing and tracking time lines, deployment of resources to complete a project, and addressing constraints. Use of current software for charting and reporting projects.

EDUC 7320 Financial and Budgeting Skills for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Examines budgeting and finance systems of educational institutions, both from the perspective of theory, research and policy development, and from the perspective of actual budgeting and practice. There will also be an emphasis on the impact of federal and state policy regarding the finance of educational institutions, as well as the processes by which budgets are developed and resources allocated.

EDUC 7325 Grant Writing for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructorProvides hands-on help for current and would-be grant writers. Examines search tools to locate likely request for proposals, explores text and sub-text issues, develops a timeline for grant development and submission, provides practice on how a peer review system works, considers issues related to revision and follows the real processes engaged in by successful grant recipients.

EDUC 7330 Human Relations Skills for Educational Practitioners: 1 semester hour

Prerequisites: Admission to Ed.D. program or consent of instructor. Exposure for educational practitioners in a variety of leadership roles to basic human relations skills, effective interventions which can be made with the individual worker, and assessment skills to enable the leader to determine if referral to a mental health professional is warranted. Effective ways of confronting employees because of impaired job performance, giving performance evaluations, providing career development and planning information, identifying work transitions in their employees, and identifying stress and stressors in the work environment, along with identifying substance abusing workers and deciding what to do about them.

EDUC 7395 Tool Seminar for Educational Practitioners: 1 semester hour

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Seminar on a specified tool used by leaders of educational institutions or programs for organizational improvement or as part of a continuous improvement cycle.

EDUC 7415 Topics in Education: 3 semester hours

Prerequisite: Admission to the doctoral program. Intensive study of a topic in education.

EDUC 7490 Directed Readings in the Education Research Literature: 1-6 semester hours

Prerequisite: Doctoral StandingIndependent study of the education research literature in an area defined in consultation with an advisor.

EDUC 7495 Doctoral Research Tools: 1-6 semester hours

Prerequisites: ED REM 6710. A structured individual or small group instructional or supervised investigative experience in and with a specific research skill and/or procedure that will be needed in the production of a doctoral dissertation. This course may not substitute for any existing graduate courses that cover the same research tool skills.

EDUC 7600 Learning Community of Practice I: 1-6 semester hours

Prerequisites: Admission to an Ed.D. cohort. Applying the scholarship of teaching and learning through asset mapping, inquiry formation, and selected readings. Students explore professional connections, interests, beliefs and reflect on practice.

EDUC 7605 Scholarship of Teaching and Learning in Educational Practice: 2 semester hours

Prerequisites: Admission to an Ed.D. cohort. Exploration of learning through practice and reflection within a community of scholars committed to situated best practice in education.

EDUC 7610 Learning Community of Practice II: 1-6 semester hours

Prerequisites: EDUC 7600 Identifies and examines research problems by developing skills of inquiry, integrating prior knowledge, and evaluating extant research.

EDUC 7615 Evaluation of Educational Programs: 2 semester hours

Prerequisites: Admission to an Ed.D. cohort. Assessment of programs for continuous improvement cycles within educational settings.

EDUC 7620 Learning Community of Practice III: 1-6 semester hours

Prerequisites: EDUC 7610. Selection and definition a problem of practice to be addressed through research by the learning community members. Includes building relationships within and outside the learning community and designing structure to support inquiry into a problem of practice.

EDUC 7625 Building Socially Just Educational Communities: 2 semester hours

Prerequisites: Admission to an Ed.D. cohort. Examination of the role of culture and the analysis and application of social justice components in learning communities.

EDUC 7630 Learning Community of Practice IV: 1-6 semester hours

Prerequisites: EDUC 7620 Design and pilot of the research, selection of tools of inquiry, location of resources and needed support, and analysis of data

EDUC 7635 Ethical and Legal Issues in Educational Practice: 2 semester hours

Prerequisites: Admission to an Ed.D. cohort or consent of instructor. Examines legal and ethical perspectives, conflicts and professional practice in education, especially in education leadership. Introduces ethical theories and studies approaches to problem-solving strategies, focusing on anticipating legal issues before they arise; methods and tools to prevent and resolve legal problems will be practiced.

EDUC 7640 Learning Community of Practice V: 1-6 semester hours

Prerequisites: EDUC 7630. Preparation of dissertation proposals, consideration of research tools, establishment of process in research sites and attention to the adherence to high ethical standards.

EDUC 7642 Sociocultural Perspectives In Education: 3 semester hours

Prerequisite: Doctoral standing and consent of instructor. Investigation of sociocultural theory with a focus on educational applications. Topics include the social formation of mind, language as cultural tool, methodological issues in social science research, and dialogic inquiry as pedogogy.

EDUC 7650 Learning Community of Practice VI: 1-6 semester hours

Prerequisites: EDUC 7640. Preparation of dissertation proposals, consideration of research tools, establishment of process in research sites and attention to the adherence to high ethical standards. A continuation of EDUC 7640.

EDUC 7880 Research Internship I: 3 semester hours

Prerequisites: Nine hours of research methods or statistics and consent of instructor Supervised experience in the conduct of research studies or scholarly inquiry.

EDUC 7881 Research Internship II: 3 semester hours

Prerequisites: EDUC 7880 and consent of instructor Supervised experience in the conduct of research studies or scholarly inquiry.

EDUC 7882 Research Internship III: 3 semester hours

Prerequisites: EDUC 7881 and consent of instructor Supervised experience in the conduct of research studies or scholarly inquiry.

EDUC 7889 Laboratory of Practice: 1-6 semester hours

Prerequisites: Admission to an Ed.D. cohort. Field experience that bridges theory and practice in solving complex, situated problems of practice.

EDUC 7950 Research Process II: Developing & Refining Ed Research Proposals: 3 semester hours

Prerequisites: Completion of 6 hours of ED REM courses numbered 7771 or higher. An in depth examination of the essential elements of a research proposal. Particular emphasis is placed on examining the validity and reliability or the trustworthiness of the design of the proposed research. Tools for identifying research strengths and weaknesses are applied to proposals. Presentation of a written proposal and oral defense of that proposal are required.

EDUC 7998 Dissertation in Practice Research: 1-8 semester hoursPrerequisites: Completion of doctoral coursework.Credit awarded upon defense of dissertation in practice.

EDUC 7999 Dissertation Research: 1-12 semester hours

Prerequisite: Admission to candidacy in the Education program. Credit awarded only upon successful defense of the dissertation.

Counseling and Family Therapy

General Information

The Department of Counseling and Family Therapy is housed on the fourth floor of Marillac Hall on the South Campus. Information about offerings and related matters may be obtained in the Department office, 469 Marillac Hall or at the College of Education's Counseling and Family Therapy's web page. The Department of Counseling and Family Therapy offers course work leading to two degrees: the Ph.D. in Education with an Emphasis in Counseling and an M.Ed. in Counseling with an emphasis in elementary school counseling, secondary school counseling, or clinical mental health counseling. General information on the doctoral degree is presented here. Specific information on the doctoral degrees is presented in this Bulletin in the general College of Education listing.

The following Department of Counseling and Family Therapy areas have been accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP):

- · Master of Education (M.Ed.) in School Counseling
- Master of Education (M.Ed.) in Clinical Mental Health Counseling
- Master of Education (M.Ed.) in Clinical Mental Health Counseling with a Specialization in Career Counseling
- Doctor of Philosophy (Ph.D.) in Education with an Emphasis in Counseling

CACREP, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation, grants accredited status to graduate-level programs in the professional counseling field.

Students wishing to receive Missouri certification in elementary school counseling or secondary school counseling must complete all required courses for the M.Ed. in School Counseling in addition to holding teaching certificates valid in Missouri or taking the equivalent course work. (Consult an advisor if you have questions on these matters.) The M.Ed. in Clinical Mental Health Counseling is appropriate for students planning to practice counseling in non school settings, and graduates may pursue the Missouri state license as a professional counselor (in order to practice independently).

The M.Ed. degree programs have an exit requirement of a comprehensive examination. Students may sit for the exam after completing 36 units of the degree program. There is a service charge for taking the exam. The

exam will be given at least twice a year. All degree students should consult with their advisers about this requirement.

Vision

The Department of Counseling and Family Therapy, as one of the preeminent counselor preparation programs in the United States, strives to develop the highest quality, culturally competent human service providers through superior teaching, scholarly activity, and service.

Mission

The Department of Counseling and Family Therapy prepares both master's and doctoral level professional counselors and counselor educators, marriage and family therapists, and counseling psychologists to serve the mental health needs of culturally diverse individuals, groups, couples, and families in need. The Department's outreach extends to schools, colleges and universities, community based organizations, business and industry, as well as independent practice. The Department strives to develop a culturally diverse student population and to draw students from local, regional, national, and international locations.

Values

The Department of Counseling and Family Therapy is committed to the full integration of practice, research, and advocacy in the training of counselors for our society. Major emphases in all aspects of such training offered in the Department is the faculty's commitment to social justice, multicultural training, issues of diversity, and the value of work in people's lives. Counselors play a direct role in facilitating the development of active, productive, and healthy members of society, and counselors must be trained to be fair and non-discriminatory, while building on strengths and acknowledging areas for improvement in their clients. Training must be based on empirically and theoretically sound practice, not unfounded or prejudicial opinion. Counseling professionals are guided by the well-established ethical principles in the mental health professions: beneficence, non-maleficence, justice, autonomy, and fidelity. Beneficence, as a guiding principle, means that counselors act in the best interests of their clients. Non-maleficence means counselors avoid doing harm to clients. Justice means that counselors are fair and nondiscriminatory. Autonomy means that counselors view clients as selfdirecting, as much as possible, and free to make decisions without undo influence. And finally, counselors are guided by the principle of fidelity, meaning they are loyal to their clients and maintain the confidentiality and privacy of the counseling relationship. These general principles guide counseling practice, and they are at the foundation of how the Department of Counseling and Family Therapy trains future counselors for work in our society.

Admission

In addition to meeting the general admission requirements of the Graduate School, applicants to the M.Ed. must complete the Departmental application in addition to the application to Graduate School, have three completed references on file, must have an undergraduate GPA of 3.0, and must take CNS ED 6000, Personal and Professional Development in Counseling, in their first semester. Admissions will be conducted twice a year. The deadlines for application are April 1 for the fall semester and October 1 for the spring semester.

Since it is the objective of the counseling faculty to identify students with low potential for competent practice as early as possible and to initiate the necessary procedures for dealing with such students, faculty of the

counseling program reserves the right to review students at any stage of their coursework. Any grade less than a B in any core counseling course or a U (Unsatisfactory) in any clinical course (CNS ED 6000 (p. 324), Personal and Professional Development in Counseling; CNS ED 6010 (p. 324), Theories of Counseling; CNS ED 6370 (p. 324), Clinical Mental Health Counseling Practicum or CNS ED 6270 (p. 324) School Counseling Practicum; CNS ED 6380 Clinical Mental Health Counseling Field Experience or CNS ED 6280 (p. 324) School Counseling Field Experience will automatically trigger a review process. The Counseling Review Board process, however initiated, may result in the termination of the student's degree program or other required or recommended remedies to address deficiencies judged by the Counseling Review Board as related to the skills that are essential to the development of competent and ethical practices as a professional counselor.

Students admitted to the M.Ed. degree programs in counseling as "restricted graduate students" (see the "graduate study" rules in this Bulletin) must attain a 3.0 GPA for the first 12 hours of graduate course work at UMSL with no grade less than a B or a U (Unsatisfactory) in any clinical course. Restricted students must include the following courses in the first 12 hours of coursework: CNS ED 6000, Personal and Professional Development in Counseling; CNS ED 6010, Theories of Counseling; CNS ED 6370 Clinical Mental Health Counseling Practicum or CNS ED 6270 School Counseling Practicum. A student earning any grade less than a B in any of these courses or a U (Unsatisfactory) in any clinical course, but still maintaining a 3.0 GPA, will be allowed to repeat the course one time and must earn a grade of B or better or an S (Satisfactory) in any clinical course to be admitted.

Master of Education in School Counseling – Overview

Mission

The School Counseling Program of the Department of Counseling and Family Therapy prepares professional school counselors to serve the academic, career, and personal/social needs of culturally diverse students in the elementary, middle, and secondary schools. The Department strives to develop a culturally diverse student population and to draw students from local, regional, national, and international locations.

Purpose and Objectives

The M.Ed. in School Counseling program prepares school counselors for positions in public or private elementary, middle, or secondary schools. The program is designed to fulfill entry-level program standards of preparation. It also is intended to enable program graduates to obtain Missouri Department of Elementary and Secondary Education Certification in School Counseling.

Emphasized in the program is the use of developmental perspectives by school counseling and guidance practitioners as outlined by the Missouri Department of Elementary and Secondary Education, the Council for Accreditation of Counseling and Related Educational Programs (CACREP), and the most innovative school counselor training standards as described by the professional literature. That is, guidance and counseling services are considered appropriate and necessary for all students in schools, not just those with problems or in crisis. Remedial and crisis intervention theories and strategies are covered in the curriculum; however, facilitation of "developmental" conditions needed for students' learning, re-learning, and effective coping are viewed as most important.

The objectives of the school counseling program are to prepare graduates who can conceptualize and organize a school-based program around the

eight goals which characterize developmental guidance and counseling programs. The objectives of the program is are to prepare graduates who:

- 1. understand school environments:
- 2. understand self and others;
- 3. understand students' attitudes and behaviors;
- 4. understand students' decision-making and problem-solving skills;
- 5. have effective interpersonal and communication skills;
- 6. understand students' school success skills;
- understand students' career awareness and educational planning; and
- 8. understand community pride and involvement.

Each of these objectives is further delineated by a set of general objectives, described through expected observable outcomes. While each of these objectives are applicable to all grade levels, particular attention is given to objectives related to developmental stages and tasks for appropriate age groups. Program graduates are expected to be competent in and be able to:

- 1. provide individual counseling;
- 2. provide small group counseling;
- 3. present large group/classroom guidance;
- 4. organize and manage peer facilitator programs;
- develop a series of counseling and guidance activities for dysfunctioning (i.e. target) students;
- provide leadership in organizing guidance experiences for all students within a school;
- 7. lead parent education groups;
- consult individually and in groups with teachers, parents, and administrators;
- 9. consult with child study teams; and
- 10.demonstrate counselor effectiveness through accountability studies.

Master of Education: Emphasis in Elementary School Counseling

The courses listed below meet the coursework requirements for the M.Ed. degree, state certification as a school counselor, and licensing as a professional counselor:

Counselor Education

CNS ED 6000 (p. 324)	Personal and Professional Development in Counseling	3
CNS ED 6010 (p. 324)	Theories of Counseling	3
CNS ED 6020 (p. 324)	Ethical and Professional Issues in Counseling	3
CNS ED 6030 (p. 324)	Foundations for Multicultural Counseling	3
CNS ED 6040 (p. 324)	Group Procedures in Counseling	3
CNS ED 6050 (p. 324)	Individual Inventory	3
CNS ED 6070 (p. 324)	Psychopathology & Diagnosis	3
CNS ED 6200 (p. 324)	Foundations of School Guidance	3

CNS ED 6270 (p. 324)	School Counseling Practicum	3
CNS ED 6280 (p. 324)	School Counseling Field Experience	6
CNS ED 6400 (p. 324)	Career Information and Development	3
Psychological Fo	undations and Human Development	
ED PSY 6210 (p. 324)	Life-Span: Individual and Family Development	3
ED PSY 6532 (p. 324)	Psychoeducational Differences	3
Educational Rese	arch and Evaluation Methods	
ED REM 6710 (p. 324)	Educational Research Methods and Design	3
Electives		
Six credit hours fro	m CNS ED or related courses, such as:	6
	Theories and Techniques of Counseling Children and Adolescents	
	Introduction to Systems Theory for Couples and Family Counseling	
Comprehensive Ex	cam (Capstone Experience) 1	
Total Hours		51

Please consult with the Department office for requirements and dates of this examination.

State Certification

Although not a degree requirement, a passing score on the relevant Praxis test is also required for state certification as a school counselor and must be achieved before the student can be recommended by the Department of Counseling and Family Therapy for such certification.

ED PSY 6111	Psychology Of Education	3
SPEC ED 6412	Psychology Of Exceptional Children	3
SPEC ED 6325	Advanced Studies in Classroom & Behavior Management	3
ELE ED 6411	Curricular Issues In Early Childhood And Elementary Programs ¹	3
or SEC ED 6415	The Secondary School Curriculum	

Students seeking K-12 certification must take both ELE ED 6411 and SEC ED 6415.

Master of Education: Emphasis in Secondary School Counseling

The courses listed below meet the course work requirements for the M.Ed. degree, state certification, and licensing as a professional counselor:

Counselor Education

CNS ED 6000 (p.	Personal and Professional Development in	3
324)	Counseling	
CNS ED 6010 (p. 324)	Theories of Counseling	3
CNS ED 6020 (p. 324)	Ethical and Professional Issues in Counseling	3

CNS ED 6030 (p. Foundations for Multicultural Counseling 324)	3
CNS ED 6040 (p. Group Procedures in Counseling 324)	3
CNS ED 6050 (p. Individual Inventory 324)	3
CNS ED 6200 (p. Foundations of School Guidance 324)	3
CNS ED 6270 (p. School Counseling Practicum 324)	3
CNS ED 6280 (p. School Counseling Field Experience 324)	6
CNS ED 6400 (p. Career Information and Development 324)	3
Psychological Foundations and Human Development	
ED PSY 6210 (p. Life-Span: Individual and Family Development 324)	3
ED PSY 6532 (p. Psychoeducational Differences 324)	3
Educational Research and Evaluation Methods	
ED REM 6710 (p. Educational Research Methods and Design 324)	3
Six credit hours from CNS ED or related courses	6
Comprehensive Examination (Capstone Experience) ¹	
Total Hours	48

Please consult with the Department office for requirements and dates of this examination.

State Certification

Individuals seeking certification as a professional school counselor in the State of Missouri who are non-teacher certificated must take the following courses in addition to their counseling degree:

Psychology Of Education	3
Psychology Of Exceptional Children	3
Advanced Studies in Classroom & Behavior Management	3
Curricular Issues In Early Childhood And	3
Elementary Programs ¹	
The Secondary School Curriculum	
	Psychology Of Exceptional Children Advanced Studies in Classroom & Behavior Management Curricular Issues In Early Childhood And Elementary Programs ¹

Students seeking K-12 certification must take both ELE ED 6411 and SEC ED 6415.

Although not a degree requirement, a passing score on the relevant Praxis test is also required for state certification as a school counselor and must be achieved before the student can be recommended by the Department of Counseling and Family Therapy for such certification.

Master of Education in Clinical Mental Health Counseling – Overview

M. Ed. Clinical Mental Health Counseling Program Mission Statement

The Clinical Mental Health Counseling Program of the Department of Counseling and Family Therapy prepares professional counselors,

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including mental health, career, addictions, couples/family, and child and adolescent counselors, to serve the mental health needs of culturally diverse individuals, groups, couples, and families in need. The Department's outreach extends to schools, colleges and universities, community based organizations, business and industry, as well as independent practice. The Department strives to develop a culturally diverse student population and to draw students from local, regional, national, and international locations.

Purpose and Objectives

The M.Ed. in Clinical Mental Health Counseling program prepares clinical mental health counselors for positions in community colleges, universities, employment agencies, vocational rehabilitation agencies, probation and parole work, juvenile detention, alcoholism and drug abuse clinics, career planning and placement centers, community mental health agencies, family and children services, and various federally funded public service projects. Additionally, graduates are employed in career development, and business and industry positions, especially in training and personnel areas. Others have moved into roles calling for research and evaluation skills. The program is designed to fulfill entry-level program standards of preparation. It also is intended to enable program graduates to apply for the Missouri License for Professional Counselors.

The objectives of this program are to prepare graduates:

- 1. to function effectively and ethically as professional counselors in the community, within a mental health setting;
- 2. to be self-aware and sensitive to their clients as people who exist in the context of different cultures and races and people who are potentially at risk;
- 3. to flexibly and skillfully construct and apply theory and techniques to fit unique and changing needs of clients both individually and in groups, within a community mental health setting;
- 4. to be proficient with the understanding and human relations skills necessary to consult as part of a team effort, within a mental health setting;
- 5. to help individuals meet developmental concerns and needs both individually and in a variety of developmental group programs, within a mental health setting;
- 6. to be knowledgeable about career development and the use of appraisal instruments and test interpretation and their impact on individual planning;
- 7. to be knowledgeable about research methods and research literature: and
- 8. to value developing professional expertise as a lifelong process.

Master of Education: Emphasis in Clincial **Mental Health Counseling**

The clinical mental health counseling emphasis allows flexibility for developing programs appropriate to particular nonschool settings. Students must have their adviser's approval before taking other than required courses.

Core Curriculum (CNS ED)

The courses listed below meet the course work requirements for the M. Ed. Degree and the license to practice as a professional counselor:

CNS ED 6010 (p. Theories of Counseling 324)CNS ED 6020 (p. Ethical and Professional Issues in Counseling 3 CNS ED 6030 (p. Foundations for Multicultural Counseling 3 CNS ED 6040 (p. Group Procedures in Counseling 3 CNS ED 6050 (p. Individual Inventory 3 324)CNS ED 6070 (p. Psychopathology & Diagnosis 3 CNS ED 6300 (p. Foundations Of Clinical Mental Health Counseling 3 CNS ED 6370 (p. Clinical Mental Health Counseling Practicum I 3 324) CNS ED 6375 (p. Clinical Mental Health Counseling Practicum II 3 324)CNS ED 6380 (p. Clinical Mental Health Counseling Field Experience 6 CNS ED 6400 (p. Career Information and Development 3 324) CNS ED 6500 (p. Introduction to Systems Theory for Couples and 3 Family Counseling 324)CNS ED 6700 (p. Introduction To Addictive Behaviors And Addiction 3 Counseling One course from the advanced multicultural cognate which includes: 3 CNS ED 6810 Integrating Religion And Spirituality In Counseling CNS ED 6820 Counseling Women Toward Empowerment (p. 324) CNS ED 6830 Counseling African American Clients (p. 324) CNS ED 6840 Counseling Sexual Minorities (p. 324) CNS ED 6850 Social Class and Poverty Issues In Counseling (p. 324) CNS ED 6860 Human Sexuality in Counseling (p. 324) **Psychological Foundations and Human Development** The following course is required: ED PSY 6210 (p. Life-Span: Individual and Family Development 3 **Educational Research and Evaluation Methods** The following course is required: ED REM 6710 (p. Educational Research Methods and Design 3 324)**Electives and Area of Specialization** 6 Coursework in the area of specialization is to be selected in consultation with the adviser. Although not mandatory, areas of specialization may include career counseling, mental health counseling, rehabilitation counseling, addictions/substance abuse counseling, child and adolescent counseling, couples and family

counseling, and others.

Comprehensive Examination (Capstone Experience) ¹

Total Hours 60

Please consult with the Department office for requirements and dates of this examination

Doctoral Program (Ed.D./Ph.D.) in Counselor Education and Supervision - Overview

Admission

Admissions will be conducted once per year. The deadline for applications is December 1, for a Fall Semester admission.

Mission

The Doctoral Program in Counselor Education and Supervision of the Department of Counseling and Family Therapy prepares doctoral level counselor educators and supervisors to train professional counselors who will provide services to meet the mental health needs of culturally diverse individuals, groups, couples, and families in need. The Department's goal is to train practitioner-scholar-advocates who can contribute to the professional counseling field in academic, research, and practice contexts. The Department's outreach extends to individuals who practice counseling in schools, colleges and universities, community based organizations, business and industry, as well as independent practice. The Department strives to develop a culturally diverse student population and to draw students from local, regional, national, and international locations.

Ed.D. in Counselor Education and Supervision

Mission

The mission of the Ed.D. in Counselor Education and Supervision (School Counseling) is to produce individuals who can serve as: (a) advanced level school counselors; (b) school counselor coordinators; (c) school district counseling program coordinators; and (d) counselor educators.

Purpose and Objectives

- to build upon and enhance the knowledge base in core counseling areas through successful completion of advanced doctoral seminars in research and counseling practice;
- to refine counseling practice skills and enhance the supervised experience base through successful completion of an advanced doctoral practicum and doctoral internships;
- to enhance the identification of complex problems in education and counseling through advanced counseling coursework;
- 4. to develop problem solving strategies in education and counseling;
- to train counselor educators and supervisors of counselors-intraining;
- to train supervisors of counseling service agencies in schools or other organizations;
- 7. to prepare professional counselors to provide a full-range of counseling services to individuals from differing cultural backgrounds facing extraordinary challenges throughout the life span. This requires academic training and supervised practice (both as a student and as a potential supervisor-in-training) addressing the

- concerns of clients from varied cultural backgrounds, including individuals in protected or minority statuses;
- 8. to prepare professionals adept at (a) theory development; (b) qualitative and quantitative research methods; (c) integration of research with practice in school and non-school counseling settings through advanced training in qualitative and quantitative research methodology and an advanced counseling research seminar;
- 9. to apply counseling theory to the process and practice of individual and team consultation in various counseling and educational contexts, learned primarily through the doctoral practicum and doctoral internship, but proceeded by classroom instruction on organizational climate, ethical climate, and problem solving in "Ethical and Professional Issues in Counseling";
- 10.to provide a firm theoretical foundation in personal and social development and assessment through the foundational area coursework;
- 11.to provide a context for skill development and practice in individual and group assessment (including intelligence, aptitude, achievement, interest, and personality assessment) through a supervised advanced doctoral practicum and doctoral internship;
- 12to provide practitioners with a research foundation for directed enquiry and interpretation of research findings, through advanced coursework in research methods and a counseling research seminar; and
- 13.to encourage and facilitate linkage to the counseling professional community and academy trough organizational involvement and efforts to present scholarly findings at professional conferences or in professional journals. Students in doctoral seminar and advanced courses will be encouraged to submit their work for publication or presentation through professional and academic outlets.

Ph.D. in Education in Counseling Mission

Students completing the Ph.D. in counseling will be knowledgeable about counseling's knowledge base; will be competent in research, measurement, and statistical methods; and will possess a high level of applied research and clinical skills. The goal of the program is to prepare professionals adept at theory development, qualitative and quantitative research methods, and integration of research with practice in counseling settings. The larger program intent is to produce researcher practitioners who can provide and assess services designed to enhance the lives of individuals facing extraordinary challenges throughout the lifespan.

Purpose and Objectives

The objectives of the Ph.D. in Education in Counseling Program are:

- to build upon and enhance the knowledge base in core counseling areas through successful completion of advanced doctoral coursework in research and counseling practice;
- to refine counseling practice skills and enhance the supervised experience base through successful completion of an advanced doctoral practicum and a doctoral internship;
- to teach and to require the ethical practice of counseling, counseling research, and counselor education through course work and supervision of practice;
- to enhance the student's ability to identify and to solve complex problems in education and counseling;
- to train counselor educators and supervisors of counselors-intraining;

- 6. to prepare professional counselors to provide a full-range of counseling services to individuals from differing cultural backgrounds facing extraordinary challenges throughout the life span. This requires academic training and supervised practice (both as a student and as a potential supervisor-in-training) addressing the concerns of clients from varied cultural backgrounds, including individuals in protected or minority statuses;
- to prepare professionals adept at (a) theory development; (b)
 qualitative and quantitative research methods; (c) integration of
 research with practice in school and non-school counseling settings
 through advanced coursework and a research seminar;
- 8. to apply counseling theory to the process and practice of consultation in various counseling and educational contexts, learned primarily through the doctoral practicum and doctoral internship, but proceeded by classroom instruction on organizational climate, ethical climate, and problem solving;
- to provide a firm theoretical foundation in the educational psychology "related area discipline," focusing on personal and social development and assessment;
- 10.to provide a context for skill development and practice in individual, career, and group assessment (including intelligence, aptitude, achievement, interest, and personality assessment) through a supervised advanced doctoral practicum and doctoral internship;
- 11.to train researchers, scholars, and academicians (counselor educators) and to develop and to refine scholarship skills for anticipated entry into the academy through advanced coursework including research methodology and counseling research; and
- 12.to encourage and facilitate linkage to the counseling professional community and academy through organizational involvement and efforts to present scholarly findings at professional conferences or in professional journals. Students will be encouraged to submit their work for publication or presentation through professional and academic outlets.

Career Outlook

Elementary and Secondary School Counselors

The demand for school counselors throughout the state is quite high. There is a shortage of school counseling personnel at all levels. Additionally, many teachers who do not intend to leave the classroom pursue this program to be better able to meet the needs of their students. Some graduates of the program have left the field of education and have obtained positions such as those cited under Clinical Mental Health Counseling.

Note: It should be noted that in Missouri, persons who engage in "professional counseling" in many of these settings are required by law to be licensed as professional counselors.

Clinical Mental Health Counselors

Graduates have been employed in a wide variety of settings: as counselors in community colleges, universities, employment agencies, vocational rehabilitation agencies, probation and parole work, juvenile detention, alcoholism and substance abuse clinics, career planning and placement centers, community mental health agencies, family and children services, and various federally funded public service projects. Additionally, graduates are employed in career development, and business and industry positions, especially in training and personnel areas. Others have moved into roles calling for research and evaluation skills.

Courses

CNS ED 1400 Making A Career Choice: 3 semester hours

Introduces students to career development theories and the career decision-making process. Students receive an overview of career development theory and learn how these theories pertain to the formulation of individual career plans. Self-knowledge of career interests, values, beliefs, aptitudes, and other factors are explored. Self-assessment and decision-making techniques learned in this class can be revisited throughout the life span. The seminar format allows for small group discussion of career-related issues and personal application of career development principles.

CNS ED 3000 Introduction To The Counseling Profession: 3 semester hours

Prerequisite: Jr. or Sr. level standing. This survey course will provide undergraduates and noncounseling majors with a broad overview of the counseling profession. Topics include a history of the profession, foundations of counseling, ethical and legal considerations and the role of the counselor in various settings.

CNS ED 3220 Counseling Individuals With Special Needs: 3 semester hours

Prerequisite: SPEC ED 3313 or equivalent, or consent of instructor. A course emphasizing counseling skills for individuals who plan to work with people with disabilities. Emphasis is placed on using counseling strategies with school-age children with disabilities.

CNS ED 4310 Human Relations Skills: 3 semester hours

Prerequisite: Junior or Senior level standing or consent of instructor. A course emphasizing the development of specific skills in human relationships to help facilitate effective interaction among individuals and groups in the helping professions. Readings, discussion and skill-building exercise will be used to develop various human relations skills.

CNS ED 4320 Occupational And Education Information: 3 semester hours

Prerequisites: Junior or senior level standing or consent of instructor. This course is a basic introduction to the nature and use of occupational and educational information, including the characteristics and educational requirements of occupations as well as the history of and current occupation organizing systems.

CNS ED 6000 Personal and Professional Development in Counseling: 3 semester hours

Prerequisites: Provisional Acceptance to the Counseling Program or Consent of Instructor. This course provides an in-depth view of the professional counseling field. Attention is focused on the development of the helping relationship, including a review of research on factors which influence helping processes and rapport building, a development of skills used in the counseling process, and increased awareness of how students' values, beliefs, and behaviors are related to counselor effectiveness.

CNS ED 6010 Theories of Counseling: 3 semester hours

Prerequisite: CNS ED 6000. This course will explore the philosophical foundations of counseling theory. The major constructs of contemporary counseling approaches will be discussed and the practical applications of these theories will be analyzed.

CNS ED 6020 Ethical and Professional Issues in Counseling: 3 semester hours

Prerequisites: CNS ED 6000. Ethical, legal, and professional issues related to counseling are addressed. Ethical dilemmas in the provision of counseling services to individuals, couples, families, and groups are defined. Specific ethical codes of professional organizations are examined.

CNS ED 6030 Foundations for Multicultural Counseling: 3 semester hours

Prerequisites: CNS ED 6000 with a grade of B or better and CNS ED 6010. This course will focus on: (1) reviewing knowledge and research in the area of multicultural counseling, (2) developing and/or enhancing skills useful in counseling with individuals from minority populations, and (3) developing levels of personal awareness about stereotypes, and learning how feelings and attitudes about these may impact counseling with individuals from minority populations.

CNS ED 6040 Group Procedures in Counseling: 3 semester hours

Prerequisites: CNS ED 6000 with a grade of B or better and CNS ED 6010 and CNS ED 6270 or CNS ED 6370. This course examines the process dynamics of groups including group development, leadership, norms and therapeutic factors. Group counseling theories and approaches used for other group work including: skills, personal growth, support, vocational, and developmental guidance groups are included. Knowledge and skills of how to facilitate therapeutic groups are included. Students will be required to be participant-observers or facilitators of a group outside of class time.

CNS ED 6050 Individual Inventory: 3 semester hours

Prerequisite: ED REM 6709. Uses of educational and psychological appraisal techniques in counseling, develops counselor's abilities in assisting clients toward self-awareness through the use of test and nontest data. Ethical practices in the use of tests and the maintenance of personnel records are stressed.

CNS ED 6060 Enhancing Counseling Skills: 3 semester hours
Prerequisite: CNS ED 6000 focuses on mastery of basic counseling skills

Prerequisite: CNS ED 6000 focuses on mastery of basic counseling skills for students who possess an understanding of the counseling process.

CNS ED 6070 Psychopathology & Diagnosis: 3 semester hours

Prerequisites: Graduate Standing. Same As ED PSY 6113. Covers etiology, assessment and diagnosis of mental disorders using contemporary diagnostic systems. Course materials and assignment address the dynamics of adjustment and treatment implication for counselors, school psychologists, and others in the helping professions.

CNS ED 6200 Foundations of School Guidance: 3 semester hours

Prerequisites: CNS ED 6000 with a grade of B or better. The purpose of this course is to give students a foundation for understanding the history, philosophy, and development of school guidance programs. The role functions of the school counselor within a developmental, comprehensive program are examined, along with communication skills necessary for consultation with students, parents, school support staff, and resource people in the community nonacademic needs.

CNS ED 6220 Current Issues In Counseling Special Needs Populations: 3 semester hours

Prerequisite: Graduate Standing Designed to analyze relevant literature and to provide communication skills training for those professionals in school settings who work with individuals with special needs. The characteristics and social and emotional needs of this special population will be discussed as well as the impact of special needs on the family system.

CNS ED 6270 School Counseling Practicum: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010 (both courses with a grade of B or better) or consent of instructor Supervised practice in counseling with children and adolescents and the opportunity for students to learn to facilitate personal change and problem solutions using a defined systematic framework, theoretical orientation, or research base.

CNS ED 6280 School Counseling Field Experience: 1-6 semester hours

Prerequisites: CNS ED 6270 with a grade of B or better and consent of instructor. A 100 clock hour field experience for each semester-credit-hour of enrollment. Students will be closely supervised under the direction of a graduate faculty member. Students must demonstrate counseling compretencies and skillful ethical practice. Students will received 1.5 contact hours of grup supervision weekly by a gradiate faculty member and 1 contact hour of individual supervision weekly by field experience site supervisor during terms of enrollment. Course may be repeated for a maximum of 6 semester-credit-hours.

CNS ED 6300 Foundations Of Clinical Mental Health Counseling: 3 semester hours

Prerequisites: CNS ED 6000 with a grade of B or better and CNS ED 6010. A survey of counseling in a variety of mental health settings. Introduction to the basic philosophical, historical, and psychological foundations of clinical mental health counseling. Designed to acquaint the student with the foundations and roles of the professional counselor in various community and agency settings.

CNS ED 6370 Clinical Mental Health Counseling Practicum I: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010 and consent of instructor. One hundred clock hours of supervised practice in counseling to provide the opportunity for students to pragmatically integrate and process materials, theories, techniques, and methodologies as they are applied in the counseling profession.

CNS ED 6375 Clinical Mental Health Counseling Practicum II: 3 semester hours

Prerequisites: CNS ED 6000, CNS ED 6010, and CNS ED 6370 (all courses with a grade of B or better or S, as appropriate) or consent of instructor. One hundred clock hours of supervised advanced practice in counseling to provide the opportunity for students to continue to integrate and process theories, techniques, and methods as they are applied to the professional practice of counseling.

CNS ED 6376 Internship: 1-10 semester hours

Prerequisite: Consent of Instructor. Closely supervised experience in afield setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include Planning, Research, Evaluation, and Related Professional Activities.

CNS ED 6380 Clinical Mental Health Counseling Field Experience: 1-6 semester hours

Prerequisites: CNS ED 6370 and consent of instructor. A 100 clock hour field experience for each semester-credit-hour of enrollment. Students will be closely supervised under the direction of a graduate faculty member. Students must demonstrate counseling competencies and skillful ethical practice. Students will receive 1.5 contact hours of group supervision weekly by a graduate faculty member and 1 contact hour of individual supervision weekly by a field experience site supervisor during terms of enrollment. Course may be repeated for a maximum of 6 semester-credit-hours.

CNS ED 6400 Career Information and Development: 3 semester hours

Prerequisites: CNS ED 6000 with a grade of B or better and graduate standing. Emphasis is on the nature of the changing labor market and the impact on personal, social, economic, career, and educational aspects of individuals and society. Use of occupational and educational information systems and resources to assist with career decisions are examined. The needs of culturally diverse populations are discussed. Use of career and labor market information and programs such as computer technology to access up-to-date career and labor market information is explored. Techniques and methods of career counseling are discussed. Various theories of career development and career choice will be examined.

CNS ED 6404 Seminar: 1-10 semester hours

Prerequisite: Graduate Standing.

CNS ED 6410 Advanced Career Development: 3 semester hours

Prerequisites: CNS ED 6400 or consent of instructor Emphasis in on current theories of career development, career choice, and techniques and methods of career counseling. Issues concerning education and training, work, leisure, the family, life roles, and culturally diverse populations are studied. The role of career theory in planning, development, and delivery of a career development program is explored.

CNS ED 6420 Career Assessment In Counseling And Rehabilitation: 3 semester hours

Prerequisites: CNS ED 6050 and CNS ED 6400 or consent of instructor This course provides an in-depth and specialized look at the educational and psychological assessment techniques used in career counseling, especially the assessment of career interests, work values, work environment, work skills, work samples, career development stages, career maturity, career decision making, and career beliefs. Issues of using computers in the delivery of career development services will be discussed.

CNS ED 6497 Problems: 1-10 semester hours

CNS ED 6500 Introduction to Systems Theory for Couples and Family Counseling: 3 semester hours

Prerequisite: CNS ED 6010 or Consent of Instructor. This course is an introduction to relationship theory as applied to couples and family counseling. General systems theory, and social constructivism theory are reviewed. Students learn relationship interventions and beginning couple and family counseling techniques. Tthical, professional, and legal issues related to couples and family counseling are addressed.

CNS ED 6510 Marriage Counseling And Enrichment: 3 semester hours

Prerequisite: CNS ED 6500 Or Consent Of Instructor. This Course Focuses On The Theory And Techniques Of Marital Or Couples Counseling And Enrichment. Models And Methods For Prevention And Treatment Of Relationship Dysfunction Are Explored. Relationship Developmental Issues Are Addressed. Students Are Challenged To Develop The Critical Skills Necessary To Be Effective Marriage Counselors And Marital-Life Educators.

CNS ED 6520 Family Counseling: 3 semester hours

Prerequisite: CNS ED 6500 and CNS ED 6270, or CNS ED 6370, or consent of instructor. This course offers an in-depth analysis of strategic, structural, experiential, communications, behavioral, and pscyhodynamic approaches to systems change and family counseling. The range of techniques and applied practices evolving from each orientation are explored as are normal and dysfunctional family processes. Various counseling modalities, such as individual, concurrent, collaborative, conjoint, group, intergenerational, and networking are also considered.

CNS ED 6600 Theories and Techniques of Counseling Children and Adolescents: 3 semester hours

Prerequisites: CNS ED 6000, CNS ED 6010 (with a grade of B or better in both courses) or permission of instructor. This course focuses on counseling theories and their applicability to the developmental special concerns of children and adolescents including child-at risk issues such as: abuse, suicide, divorce, and death and dying. Individual, group, and family intervention techniques and consultation skills will be emphasized, as well as legal and ethical considerations for counselors. Strategies presented can be utilized in a variety of settings. Multicultural considerations are also addressed.

CNS ED 6610 Introduction to Play Therapy: 3 semester hours

Prerequisites: Graduate standing. Provides students a foundation for understanding the history, theories and application of play therapy. Working with children in both agency and school settings will be discussed as well as how play therapy skills can be incorporated into the student's developing theoretical framework. Can count towards the Registered Play Therapist Credential.

CNS ED 6620 Advanced Play Therapy: 3 semester hours

Prerequisites: CNS ED 6610. Helps students further develop their play therapy skills, especially in the area of client-centered play therapy. Examines the use of play therapy with traumatized children and aggressive children in both school and agency settings. Group play therapy and sand tray therapy as additional modalities will also be explored. Ethical and legal issues as well as supervision in play therapy will be emphasized. Can count towards the Registered Play Therapist credential.

CNS ED 6700 Introduction To Addictive Behaviors And Addiction Counseling: 3 semester hours

Prerequisites: CNS ED 6010 or Consent of Instructor Exploration of the theoretical foundations of contemporary approaches to such addictive behaviors as alcohol and drug abuse, smoking, compulsive gambling, and sexual addiction. The nature, etiology, prevention, and treatment of addictions are discussed and analyzed from a variety of theoretical perspectives. The applications of these specific theoretical models to various treatment settings are examined. Multicultural considerations are also addressed.

CNS ED 6710 Advanced Strategies in Addictions Counseling: 3 semester hours

Prerequisites: CNS ED 6700 or consent of instructor. Study of advanced, empirically supported counseling approaches and techniques for the treatment of addictive behaviors. An emphasis is placed on screening and assessment procedures and on matching interventions to individual client and community needs.

CNS ED 6720 Counseling Individuals with Co-Occurring Disorders: 3 semester hours

Prerequisites: CNS ED 6700 or consent of instructor. This course introduces the student to the special needs, concerns, and problems encountered when counseling clients who have co-occurring substance use and mental health problems. Subject areas include an overview of screening and assessment, evidence-based practices, counseling approaches and psychopharmacology for co-occurring disorders.

CNS ED 6800 Rehabilitation Counseling: 3 semester hours

Prerequisites: CNS ED 6000, CNS ED 6010, and CNS ED 6270 or CNS ED 6370, or consent of instructor. This course addresses: (a) the history of vocational rehabilitation; (b) specialty issues in rehabilitation counseling; (c) medical aspects of disability; (d) the rehabilitation process; (e) theories of rehabilitation; (f) the assessment process of individuals with disabilities; (g) the job placement and work adjustment process of individuals with disabilities; (h) ethical issues in rehabilitation counseling.

CNS ED 6810 Integrating Religion And Spirituality In Counseling: 3 semester hours

This course is for counselors and students wishing to develop the methods to integrate religion and spirituality in counseling and learn about counseling strategies for persons of various religious backgrounds, the link between health and religion, and ethics involved in the assessment and integration of religion and spirituality in practice.

CNS ED 6820 Counseling Women Toward Empowerment: 3 semester hours

Prerequisites: CNS ED 6000, CNS ED 6010, and CNS ED 6270 or CNS ED 6370, or consent of instructor. An introduction to Women's issues in counseling. Relational theory, healthy female development, and an overview of clinical issues most common to females will be presented.

CNS ED 6830 Counseling African American Clients: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010, or consent of instructor. This course is designed to promote an increased awareness and understanding of the psychological development and mental health needs of African American clients. This course also offers research-based theoretical strategies for counseling this diverse population.

CNS ED 6840 Counseling Sexual Minorities: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010, or consent of instructor. This course is focused on affirmative perspectives on lesbian, gay, bisexual, and transgender (LGBT) issues and populations. All of the major professional mental health organizations have formal ethical guidelines requiring non-discrimination with regard to LGBT populations and all of the organizations are active in promoting affirmative perspectives. Students will learn current perspectives in the fields of counseling and psychology on LGBT issues necessary for adequate practice or research in this area. A major focus will be on developing awareness and knowledge related to these populations.

CNS ED 6850 Social Class and Poverty Issues In Counseling: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010, or consent of the instructor. This course focuses on the experience of poor people in the United States. Specifically, the circumstances of poverty, the consequences of living in poverty (on behaviors, aspirations, relationships, education, and health including mental health), and the impact of poverty on the helping relationship will be addressed. Personal, social, and cultural aspects of poverty will be examined in both rural and urban settings. One objective of this course is to reduce the psychological distance between the poor client and the non-poor counselor. Included in this endeavor are specific attitude and techniques designed to maximize the quality of a counselor's work with poorer clients.

CNS ED 6860 Human Sexuality in Counseling: 3 semester hours

Prerequisites: CNS ED 6000 and CNS ED 6010, or consent of instructor. This course will focus on integrating issues of human sexuality into the counseling process. The psycho-sexual development of the individual from birth throughout the life span will be discussed and compared to other developmental tasks at each age. Themes related to influences from family, culture, environment, socioeconomic, ethnic, and religious perceptions of sexuality will be integrated. The physiology of human sexual function will be addressed, including variations in sexual orientation and gender identity.

CNS ED 7000 Advanced Theories And Foundations Of Counseling Psychology: 3 semester hours

Prerequisites: Doctoral standing or instructor consent. A seminar on the discipline of counseling psychology, including its history, development, and current status. An important focus will be contemporary and emergent theories in the field.

CNS ED 7010 Advanced Multicultural Counseling: 3 semester hours

Prerequisites: CNS ED 6030 and doctoral standing or consent of instructor This advanced course addresses theories and research in multicultural counseling.

CNS ED 7020 Seminar In Counseling Research: 3 semester hours

Prerequisites: ED REM 6710, doctoral standing or consent of instructor The purpose of this course is to review and analyze current counseling research literature. Ethical issues will be addressed.

CNS ED 7030 Counselor Education And Supervision: 3 semester hours

Prerequisites: Master's degree in Counseling An introduction to clinical supervision in counseling. Theories, models, and research in supervision will be presented. Students will supervise master's level students in practicum and internship courses in counseling.

CNS ED 7035 Counselor Education & Supervision Practicum: 3 semester hours

Prerequisites: Admission to the Counseling Option in the Ed.D. or Ph.D. Program. Offers advanced training in counseling supervision. Students will supervise master's level students in practicum and internship courses in counseling. Students will be expected to maintain as assigned caseload of supervisees and attend three hours of weekly doctoral-level supervision.

CNS ED 7070 Psychopathology and Diagnosis in Counseling: 3 semester hours

Prerequisites: Doctoral Standing/Consent of Instructor. This advanced course provides an in-depth look at adult psychopathology based upon the diagnostic categories of the Diagnostic and Statistical Manual of Mental Disorders (DSM). Contemporary theoretical, clinical, and research issues will be covered, with an emphasis on differential diagnosis.

CNS ED 7400 Advanced Topics in School Counseling Leadership: 3 semester hours

Prerequisites: Admission to the Counseling Option in the Ed.D. Program. Focuses on leadership roles and advanced skills for professional school counselors, school counseling supervisors, and evaluation strategies, and training and supervision strategies will be addressed, with a special emphasis on preventative and culturally sound interventions.

CNS ED 7600 Advocacy, Consulting, & Community Intervention In Counseling Psyc: 3 semester hours

Prerequisites: Doctoral standing or instructor consent. This course provides students with knowledge and experience in the application of psychological theories and methods to community concerns and problems.

CNS ED 7770 Doctoral Practicum: 3 semester hours

Prerequisites: Doctoral Standing One hundred clock hours of on-campus doctoral-level supervised counseling practice. Students will counsel clients and will be introduced to teaching and supervising beginning counseling trainees in a clinical context. As a prerequisite to the Doctoral Internship, students will be expected to demonstrate competence in skills required of counselor educators and clinical supervisors. Students will receive 1.5 hours of group and 1 hour of individual supervision by a graduate faculty member.

CNS ED 7780 Doctoral Internship: 1-6 semester hours

Prerequisites: CNS ED 7770; ED REM 7804; ED REM 7781. A 100-hour field experience for each semester-credit hour of enrollment under the direction of a graduate faculty member. Students provide conseling services to clients at field sites, teach and supervise beginning counseling trainees, and conduct clinical research projects. Students are supervised by a graduate faculty member in two hours per week of group supervision, and they receive one hour per week of individual supervision by the field site supervisor.

Early Childhood, Elementary, TESOL, and Special Education

General Information

The Department of Early Childhood, Elementary, TESOL, and Special Education (ECETS) offers a *non-teaching degree program* leading to the Bachelor of Educational Studies (B.E.S.) degree in our emphasis areas listed below. Learning outcomes for students in the B.S., B.E.S., and M.Ed. degrees are listed under the general "College of Education" section of *The Bulletin*.

Through the integration of content in general, special, and second language learning, candidates may earn certifications and endorsements with valued skills that make them highly qualified and marketable. Nationally-recognized research faculty teach undergraduate and graduate courses that prepare future educators in instruction and assessment, with a strong foundation in working with diverse, urban populations.

Educator candidates actively engage in unique practicum experiences in the Studio School Model for clinical practice. As Missouri's leader, the College partners with 36 different public, private, and charter schools. As a College, we take great pride in preparing "community educators" who are well-experienced to impact all students in a wide variety of settings, and with a much broader understanding of education's role in society. Our candidates make a collective impact as faculty members in the differentiated staffing model. Sought after by partner districts and agencies, many of our graduates are hired directly into the studio schools or districts where they complete their clinical preparation.

Early Childhood Education (for students who began this program prior to Fall Semester, 2013)

The Early Childhood Education undergraduate certification program is designed for students who desire to teach children from birth through grade three. Students electing this program will engage in community agency experiences and work directly with young children as a part of their professional courses.

The graduate program is designed to develop master-level educators through a common core of essential knowledge and experiences drawn from current research and practice in the field of Early Childhood

Education. Through this program, candidates are able to further their competencies as educators, directors, program planners, and curriculum developers in various early childhood settings. Graduate students can complete additional coursework to receive teaching certification.

Early Childhood/Early Childhood Special Education (begins Fall Semester, 2013, pending CBHE approval) - 127 credit hours

The Early Childhood/Early Childhood Special Education undergraduate program is designed for students who desire to teach children from birth through grade three. While students electing this program will engage in community agency experiences and work directly with young children as a part of the professional courses offered, the curriculum provides learning background, applied knowledge, and best practice interventions for children of diverse populations who demonstrate varied abilities and levels of developmental growth.

Dual certification in both Early Childhood Education and Early Childhood Special Education can be achieved with courses satisfactorily completed in this program of study.

The Early Childhood graduate program is designed to develop master-level educators through a common core of essential and advanced knowledge and experiences drawn from current research and practice in the field of Early Childhood Education. Through this program, candidates are able to further their competencies as educators, directors, program planners, and curriculum developers in various early childhood settings. Graduate students can complete additional coursework to receive teaching certification.

Elementary Education (for students who began this program prior to Fall Semester, 2013)

The Elementary Education undergraduate program prepares students to teach in grades one through six. In addition, students can earn an endorsement in a program leading to a middle school/junior high teaching certificate.

The graduate program strives to develop and refine the concept of the "teacher as researcher" and/or the "teacher as reflective decision maker or problem solver." It is based on the premise that, as professionals, teachers must understand both the products and findings of research and the underlying processes that influence their professional practice.

Students may choose a program leading to the M.Ed. in Elementary Education and/or Elementary Education with Missouri certification in reading.

Special Education (for students who began this program prior to Fall Semester, 2013)

The Special Education undergraduate program prepares students to acquire understandings of disability, knowledge of child support systems, and interventions helpful when instructing learners with diagnosed, crosscategorical/high-incidence learning and behavioral differences in K-12 and in Early Childhood Education settings.

Students may choose a program leading to the M.Ed in Special Education, and based upon completion of teaching certification coursework, can also earn Missouri teaching certification in Special Education.

Elementary Education/Special Education (begins Fall Semester, 2013, pending CBHE approval) - 126 credit hours

The Elementary Education/Special Education undergraduate program prepares students to teach in grades one through six.

While students electing this program will engage in community agency experiences and work directly with elementary school age children as a part of the professional courses offered, the curriculum provides learning background, applied knowledge, and best practice interventions for children of diverse populations who demonstrate varied abilities and levels of developmental growth.

Dual certification in both Elementary Education and Special Education can be achieved upon satisfactory completion of courses from this program of study.

Elementary Education/Special Education with TESOL Endorsement (begins Fall Semester, 2013, pending CBHE approval) - 141 credit hours

The Elementary Education/Special Education with TESOL Endorsement undergraduate program prepares students to teach in grades one through six. Students electing this program will engage in community agency experiences and work directly with elementary school age children in inclusive settings with learners of all abilities, along with learners whose native language differs from English. As a part of the professional courses offered, the curriculum provides learning background, applied knowledge, and best practice interventions for children of diverse populations who demonstrate varied abilities and levels of developmental growth, and for those whose first language represents another country or culture.

Dual certification in both Elementary Education and Special Education, along with an endorsement in ESOL, can be achieved by satisfactory completion of courses from this program of study.

Elementary Education with TESOL Endorsement (begins Fall Semester, 2013, pending CBHE approval) - 126 credit hours

The Elementary Education with TESOL Endorsement undergraduate program prepares students to teach in grades one through six. Students electing this program will engage in community agency experiences and work directly with elementary school age children in settings that include learners whose native language differs from English. As a part of the professional courses offered, the curriculum provides learning background, applied knowledge, and best practice strategies effective for typically-developing children, and for children whose first language represents another country or culture.

Certification in Elementary Education, along with an endorsement in ESOL, can be achieved upon satisfactory completion of courses from this program of study.

Elementary Education with Middle School Endorsement

The Elementary Education/Middle School undergraduate program prepares students to teach in grades one through nine. Students earn an endorsement in a program leading to a middle school/junior high teaching certificate.

While students electing this program will engage in community agency experiences and work directly with elementary and middle-school age children as a part of the professional courses offered, the curriculum provides learning background, applied knowledge, strong content, and best practice strategies that equip candidates to provide effective instruction.

Certification in Elementary Education, along with endorsement in Middle School Education, can be achieved upon satisfactory completion of courses from this program of study.

The BOARD CERTIFIED BEHAVIOR ANALYST (BCBA) Program

This program, per its set of graduate courses listed below, is nationallycertified and approved at UMSL by the national Behavior Analyst Certification Board (BACB)in Florida. As one of only two universitybased, BCBA-approved and BACB website-listed programs in Greater St. Louis, the program provides required content and processes that meet the criteria for the credential of BCBA Certification. The licensurebased curriculum of knowledge and skills, embedded in the courses, is taught by area behavior specialists who have earned the BCBA Therapist credential. The set of courses, listed below, are open only to cohortbased program participants who will later, and independently, apply to sit for the national BCBA Certification Examination (per the BACB website stipulations and instructions). COURSES: SPEC ED 6630 Fall Semester SPEC ED 6650 [practicum I] Spring Semester SPEC ED 6660 Summer Semester SPEC ED 6670 [practicum II] Fall Semester Following satisfactory completion of SPEC ED 6670, a brief, pre-examination seminar for the cohort members who apply to take the BCBA Licensure Examination is offered early in the Spring Semester.

Career Outlook

Undergraduate and graduate degrees in elementary education are most directly applicable to teaching at the level appropriate to the program emphasis. Demand for career-ready educators who have significant clinical experience working with youngsters, and who demonstrate contemporary, best-practice knowledge, skills, and strategies continue to create employment opportunities for UMSL graduates. As in the past, elementary education graduates are attractive candidates for employment in varied positions that require preparation and training in social and behavioral sciences. Positions that serve the general public, such as sales, service, public relations, and general business, are common examples. Future expansions of opportunities in schools are tied to population growth, increased specialization of services, and reduction in ratios between professional staff and children served. Many currently employed teachers will retire in years to come; consequently, a shortage of teachers is anticipated.

The employment outlook for special education teachers continues to be favorable, as they are in great demand among certain regions of the country. In addition to inclusion classroom teaching, graduates are typically employed as resource ¬room or self-contained classroom teachers, clinical diagnostic personnel, itinerant teachers, educational resource teachers, curriculum and/or behavior specialists, consultants, educational therapists, job coaches, supported employment and sheltered workshop evaluators, and in various supervisory and administrative positions among agencies and schools. In combination with related areas of expertise in systems supports, assessment, and educational psychology, for example, occupations exist nation- and worldwide that incorporate the skills, interventions knowledge, insightfulness, and

programmatic expertise learned in the Master's of Special Education program of study at UMSL.

Bachelor of Science in Education: Early Childhood Education

This program is designed for students wishing to teach and direct programs for children from birth through grade three.

General Education Requirements

Students who enter college for the first time in Fall 2002 or later should refer to the General Regulations section of this Bulletin for their General Education Requirements. (p. 28)

English and	Communication	9
ENGL 110 333)	0 (p. First-Year Writing	
ENGL 310 333)	0 (p. Junior-Level Writing	
or ENGL 3 (p. 333)	120 Business Writing	
Communic	ation Course	
Mathematics		3
Biological So	ience: includes lab	5
BIOL 1012 333) & BIOL 10 (p. 333)	(p. General Biology and General Biology Laboratory 013	
Physical Sci	ence: includes lab	4
Humanities		8
	s preferably from two or more of the following fields: art, ophy, or literature.	
Social Scien	ce	
PSYCH 1003 333)	(p. General Psychology	3
POL SCI 110 333)	0 (p. Introduction To American Politics (or equivalent)	3
One of the fol	owing history courses:	
HIST 1001 333)	(p. American Civilization To 1865	
HIST 1002 333)	(p. American Civilization 1865 To Present	
The following	courses:	
POL SCI 185	Global Ecology ¹	3
SOC 1010 (p. 333)	Introduction To Sociology	3
or any Antl	ropology course	

This course will not be offered in 2013-2014. Please contact the department for information.

Degree Requirements

Students are required to take the general education requirements as indicated for early childhood education above.

Note: All classes listed are 3 credit hours unless otherwise noted.

Level I: Exploring Education as a Profession

zovom zapromi		
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
Level II: Analyzin	g the Nature and Process of Education	
ECH ED 3300 (p. 333)	Introduction To Early Childhood Education	3
PHY ED 3282 (p. 333)	Physical Growth And Motor Development	3
PHY ED 3430 (p. 333)	Teaching Health In The Elementary School	3
TCH ED 3310 (p. 333)	Introduction To Instructional Methods	3
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
TCH ED 3313 (p. 333)	Psychology of the Exceptional Child	3
TCH ED 3315 (p. 333)	Literacy Learning And Instruction	3
Level III: Synthes	sizing Theory and Practice in Education	
ELE ED 3330 (p. 333)	Literacy, Literature And The Learner	3
ELE ED 3336 (p. 333)	Communication Arts Learning And Instruction	3
ECH ED 3303 (p. 333)	Curriculum And Practice Laboratory: Infant/Toddler	1
ECH ED 3304 (p. 333)	Curriculum And Practice Laboratory: Preschool	1
ECH ED 3313 (p. 333)	Curriculum And Practice: Infant/Toddler	2
ECH ED 3314 (p. 333)	Curriculum And Practice: Preschool Education	2
ECH ED 3332 (p. 333)	Literacy, Learning and Instruction For The Young Child	3
ECH ED 3350 (p. 333)	Child/Family and Education and Community Involvement	3
ECH ED 4317 (p. 333)	Implementation, Evaluation, and Assessment in Early Childhood Education	3
ECH ED 4320 (p. 333)	Classroom Management	3
ECH ED 4348 (p. 333)	The Acquisition Of Mathematical and Science Concepts	3
ECH ED 4989 (p. 333)	Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience	3
ECH ED 4990 (p. 333)	Practicum II: Early Childhood Education/ Early Childhood Special Education Site Based Experience	12

Attention education majors: Professional education courses must be completed with a grade point average of 2.50 and no grade lower than a C (2.0).

Total: A minimum of 123 hours

Bachelor of Science in Education in Early Childhood Education (pending CBHE approval)

General Education Requirements

Students who enter college for the first time in Fall 2002 or later should refer to the General Regulations section of this Bulletin for their General Education Requirements. (p. 28)

General Education	on Requirements:	6
COMM 1040 (p. 333)	Introduction To Public Speaking	3
ENGL 1100 (p. 333)	First-Year Writing	3
Mathematics		
MATH 1150 (p. 333)	Structure Of Mathematical Systems I	3
MATH 2510 (p. 333)	Structure Of Mathematical Systems II	3
Biological Scien	ce: includes lab	
BIOL 1012 (p. 333) & BIOL 1013 (p. 333)	and General Biology Laboratory	5
Physical Science	e: includes lab	4
Humanities		9
Three courses fro and literature.	m two of the following fields: art, music, philosophy,	
Social Science		
333)	General Psychology	3
HIST 1001 (p. 333)	American Civilization To 1865	3
or HIST 1002 (p. 333)	American Civilization 1865 To Present	
ANTHRO 1011 (p. 333)	Introduction To Cultural Anthropology	3
or ANTHRO 1025 (p. 333)	World Cultures	
GEOG 1001 (p. 333)	Introduction To Geography	3
or GEOG 1002 (p. 333)	World Regions	
ECON 1000 (p. 333)	Introduction To The American Economy	3
or POL SCI 1100 (p. 333)	Introduction To American Politics	
or SOC 1010 (p. 333)	Introduction To Sociology	
Related Area Req	uirements	
HLTH PE 3432 (p. 333)	Teaching Health and Physical Education in the Elementary School	4
EDUC 1000 (p. 333)	Effective Career Decision Making for Educators	3

PHY ED 3282 (p. 333)	Physical Growth And Motor Development	3
ENGL 3100 (p. 333)	Junior-Level Writing	3

Program Requirements

All students must complete the program requirements as well as the emphasis area courses.

Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Note: Beginning with those students graduating in May, 2017 and receiving teacher certification, the Missouri Department of Elementary and Secondary Education requires a 3.0 GPA in professional education courses, a 3.0 GPA in the teaching content field, and a 2.75 overall GPA.

Students must pass the relevant exit test to receive the B.S.Ed. degree.

Level I: Education		
	in Community Contexts	6
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
Level II: Teaching Experiences	g and Learning Across Context and Clinical	17
ECH ED 3300 (p. 333)	Introduction To Early Childhood Education	3
ED TECH 3135 (p. 333)	Technology for Educators	1
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
ELE ED 3337 (p. 333)	Teaching and Learning Literacy in the Elementary Classroom	4
ECH ED 3332 (p. 333)	Literacy, Learning and Instruction For The Young Child	3
SPEC ED 3318 (p. 333)	Inclusive Classrooms	3
Level III: Instruct	ional Application in Studio Schools	21
ELE ED 2229 (n	1.2	
333)	Literacy Assessment and Learning	3
333)	Child/Family and Education and Community Involvement	3
333) ECH ED 3350 (p. 333)	Child/Family and Education and Community	
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in	3
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333) ECH ED 3313 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in Early Childhood Education	3
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333) ECH ED 3313 (p. 333) ECH ED 3303 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in Early Childhood Education Curriculum And Practice: Infant/Toddler	3
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333) ECH ED 3313 (p. 333) ECH ED 3303 (p. 333) ECH ED 3314 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in Early Childhood Education Curriculum And Practice: Infant/Toddler Curriculum And Practice Laboratory: Infant/Toddler	3 2 1
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333) ECH ED 3313 (p. 333) ECH ED 3303 (p. 333) ECH ED 3314 (p. 333) ECH ED 3304 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in Early Childhood Education Curriculum And Practice: Infant/Toddler Curriculum And Practice Laboratory: Infant/Toddler Curriculum And Practice: Preschool Education	3 3 2 1 2
333) ECH ED 3350 (p. 333) ECH ED 4317 (p. 333) ECH ED 3313 (p. 333) ECH ED 3303 (p. 333) ECH ED 3314 (p. 333) ECH ED 3304 (p. 333) ECH ED 4348 (p. 333)	Child/Family and Education and Community Involvement Implementation, Evaluation, and Assessment in Early Childhood Education Curriculum And Practice: Infant/Toddler Curriculum And Practice Laboratory: Infant/Toddler Curriculum And Practice: Preschool Education Curriculum And Practice Laboratory: Preschool The Acquisition Of Mathematical and Science	3 3 2 1 2

Emphasis in Early Childhood Special Education

All candidates must enroll in a program that includes levels I, II, and III course work above in the College of Education. In addition, students must complete the following Early Childhood Special Education courses:

	ECH ED 3301 (p. 333)	Early Childhood Special Education Processes and Trends	3
	SPEC ED 4315 (p. 333)	Speech And Language Of Exceptional Children	3
	SPEC ED 3346 (p. 333)	Literacy Assessment and Reading for Students with Special Needs	3
	TCH ED 3212 (p. 333)	Sociolinguistics and communication in the Classroom	3
	ECH ED 4989 (p. 333)	Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience	3
	ECH ED 4990 (p. 333)	Practicum II: Early Childhood Education/ Early Childhood Special Education Site Based Experience	12

Total for the B.S.Ed. in Early Childhood: minimum of 129 hours

Bachelor of Science in Education: Elementary Education

The elementary education program prepares students to teach in grades one through six.

General Education Requirements

Students who enter college for the first time in Fall 2002 or later should refer to the General Regulations section of this Bulletin for their General Education Requirements. (p. 28)

Education Roquitomonto. (p. 20)			
English and Communication	9		
ENGL 1100 (p. First-Year Writing 333)			
ENGL 3100 (p. Junior-Level Writing 333)			
or ENGL 3120 Business Writing (p. 333)			
Communication Course			
Mathematics	3		
Biological Science: includes lab	5		
BIOL 1012 (p. General Biology 333) and General Biology Laboratory & BIOL 1013 (p. 333)			
Physical Science: includes lab	4		
Humanities	8		
Three courses preferably from two or more of the following fields: art, music, philosophy, or literature.			
Social Science			
PSYCH 1003 (p. General Psychology 333)	3		
POL SCI 1100 (p. Introduction To American Politics (or equivalent) 333)	3		

One of the following	na hiotomy courses.	
	ng history courses: American Civilization To 1865	
333)		
HIST 1002 (p. 333)	American Civilization 1865 To Present	
The following cou	rses:	
POL SCI 1850	Global Ecology ¹	3
SOC 1010 (p. 333)	Introduction To Sociology	3
or any Anthrop	ology course	
This course w department fo	ill not be offered in 2013-2014. Please contact the r information.	
Program Re	equirements	
Level I: Exploring	g Education as a Profession	
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
EDUC 1000 (p. 333)	Effective Career Decision Making for Educators	3
Level II: Analyzir	ng the Nature and Process of Education	
ECH ED 3332 (p. 333)	Literacy, Learning and Instruction For The Young Child	3
ELE ED 3330 (p. 333)	Literacy, Literature And The Learner	3
TCH ED 3310 (p. 333)	Introduction To Instructional Methods	3
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
TCH ED 3313 (p. 333)	Psychology of the Exceptional Child	3
Level III: Synthes	sizing Theory and Practice in Education	
ELE ED 3336 (p. 333)	Communication Arts Learning And Instruction	3
ELE ED 4246 (p. 333)	Teaching Mathematics In The Elementary School	3
ELE ED 4253 (p. 333)	Teaching Of Social Studies In The Elementary School	3
ELE ED 4320 (p. 333)	Classroom Management	3
ELE ED 4341 (p. 333)	Teaching Science In The Elementary School	3
ELE ED 4989 (p. 333)	Practicum I: Elementary/Special Education Site Based Experience	3
ELE ED 4990 (p. 333)	Practicum II: Elementary/Special Education Site Based Experience	12
ELE ED 4991 (p. 333)	Elementary School Student Teaching II	6
TCH ED 3315 (p. 333)	Literacy Learning And Instruction	3

average of 2.5 and no grade lower than a C.

Total: minimum of 123 hours.

Bachelor of Science in Education in Elementary Education (pending CBHE approval)

General Education Requirements

Students who enter college for the first time in Fall 2002 or later should refer to the General Regulations section of this Bulletin for their General Education Requirements. (http://bulletin.umsl.edu/generalregulations/undergraduatestudy/#generaleducationrequirementstext)

English and Communication

ENGL 1100 (n First-Vear Writing

ENGL 1100 (p. 333)	First-Year Writing	3
COMM 1040 (p. 333)	Introduction To Public Speaking	3
Mathematics		
MATH 1150 (p. 333)	Structure Of Mathematical Systems I	3
MATH 2510 (p. 333)	Structure Of Mathematical Systems II	3
Biological Science	ce: includes lab	
BIOL 1012 (p. 333) & BIOL 1013 (p. 333)	General Biology and General Biology Laboratory	5
Physical Science:	includes lab	4
Humanities		9
Three courses from and literature.	m two of the following fields: art, music, philosophy,	
Social Science		15
PSYCH 1003 (p. 333)	General Psychology	3
HIST 1001 (p. 333)	American Civilization To 1865	3
or HIST 1002 (p. 333)	American Civilization 1865 To Present	
ANTHRO 1011 (p. 333)	Introduction To Cultural Anthropology	3
or ANTHRO 1025 (p. 333)	World Cultures	
GEOG 1001 (p. 333)	Introduction To Geography	3
or GEOG 1002 (p. 333)	World Regions	
ECON 1000 (p. 333)	Introduction To The American Economy	3
or POL SCI 1100 (p. 333)	Introduction To American Politics	
or SOC 1010 (p. 333)	Introduction To Sociology	

Related Area Requirements

HLTH PE 3432 Teaching Health and Physical Education in the (p. 333) Elementary School

	MUS ED 3770 (p. 333)	An Introduction To Music For The Elementary School Teacher	3
	ART ED 2179 (p. 333)	Art Activities for Elementary School	3
	EDUC 1000 (p. 333)	Effective Career Decision Making for Educators	3
	ENGL 3100 (p. 333)	Junior-Level Writing	3

Program Requirements

All students in the B.S.Ed. in Elementary Education program should take the following Level II, Level III, and Level III courses. Each student should then select an emphasis area and complete the required courses for that emphasis area.

Note for all emphasis areas:

Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Beginning with those students graduating in May, 2017 and receiving teacher certification, the Missouri Department of Elementary and Secondary Education requires a 3.0 GPA in professional education courses, a 3.0 GPA in the teaching content field, and a 2.75 overall GPA.

Students must pass the relevant exit test to receive the B.S.Ed. degree.

Level I: Education in Community Contexts

333)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
Level II: Teaching	g and Learning Across Context and Clinical	13
Experiences		
SPEC ED 3318 (p. 333)	Inclusive Classrooms	3
ED TECH 3135 (p. 333)	Technology for Educators	1
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
ELE ED 3337 (p. 333)	Teaching and Learning Literacy in the Elementary Classroom	4
Level III: Instruct	ional Application in Studio Schools	15
ELE ED 3338 (p. 333)	Literacy Assessment and Learning	3
333)		Ū
,	Teaching Mathematics In The Elementary School	3
ELE ED 4246 (p. 333)	Teaching Mathematics In The Elementary School Teaching Of Social Studies In The Elementary School	
ELE ED 4246 (p. 333) ELE ED 4253 (p. 333)	Teaching Of Social Studies In The Elementary	3
ELE ED 4246 (p. 333) ELE ED 4253 (p. 333) ELE ED 4341 (p.	Teaching Of Social Studies In The Elementary School	3

Level I: Education in Community Contexts

	Experiences		
4	Level II: Teachin	g and Learning Across Context and Clinical	13
	ED PSY 2212	Introduction To Learners And Learning	3
	TCH ED 2209	Foundations of Teaching in American Schools	3

SPEC ED 3318	Inclusive Classrooms	3
ED TECH 3135	Technology for Educators	1
ED PSY 3312	Psychology of Learning, Instruction, and Assessment	3
ELE ED 3337	Teaching and Learning Literacy in the Elementary Classroom	4
Level III: Instruct	tional Application in Studio Schools	15
ELE ED 3338	Literacy Assessment and Learning	3
ELE ED 4246	Teaching Mathematics In The Elementary School	3
ELE ED 4253	Teaching Of Social Studies In The Elementary School	3
ELE ED 4341	Teaching Science In The Elementary School	3
SPEC ED 4323	Classroom Management and Positive Behavioral Supports in Inclusive Educational Settings	3

Emphasis Area in Special Education

All candidates must complete levels I, II, and III course work above in the College of Education. In addition, students must complete the following Emphasis Area courses:

SPEC ED 4315 (p. 333)	Speech And Language Of Exceptional Children	3
SPEC ED 3346 (p. 333)	Literacy Assessment and Reading for Students with Special Needs	3
SPEC ED 4342 (p. 333)	Transition Issues And Planning	3
TCH ED 3212 (p. 333)	Sociolinguistics and communication in the Classroom	3
ELE ED 4342 (p. 333)	Addressing Needs In Mathematics Teaching And Learning	3
SPEC ED 3349 (p. 333)	Cross Categorical Special Education II	3-6
ELE ED 4989 (p. 333)	Practicum I: Elementary/Special Education Site Based Experience	3
ELE ED 4990 (p. 333)	Practicum II: Elementary/Special Education Site Based Experience	12

Total for the B.S.Ed. in Elementary Education with Emphasis in Special Education: minimum of 126 hours.

Emphasis Area in Special Education and Teaching English to Speakers of Other Languages

All candidates must complete levels I, II, and III course work above in the College of Education. In addition, students must complete the following Special Education and TESOL courses:

SPEC ED 4342 (p. 333)	Transition Issues And Planning	3
SPEC ED 4315 (p. 333)	Speech And Language Of Exceptional Children	3
SPEC ED 3346 (p. 333)	Literacy Assessment and Reading for Students with Special Needs	3
TCH ED 3212 (p. 333)	Sociolinguistics and communication in the Classroom	3
ELE ED 4342 (p. 333)	Addressing Needs In Mathematics Teaching And Learning	3

SPEC ED 3349 (p. 333)	Cross Categorical Special Education II	3-6
TCH ED 3210 (p. 333)	Generl Linguistics in Tchg English to Speakers of Other Languages	3
TCH ED 4391 (p. 333)	Literacy for Adolescent Learners in Content Areas	3
TCH ED 3211 (p. 333)	Basic Principles of Second and Foreign Language Acquisition	3
TCH ED 3213 (p. 333)	Performance-based Assessment for TOSOL	3
TCH ED 3214 (p. 333)	Material Development and Methods for TESOL	3
ELE ED 4992 (p. 333)	Practicum I: Elementary/Special Education/TESOL Site Based Experience	3

Total for the B.S.Ed. in Elementary Education with Emphasis in Special Education and Teaching English to Speakers of Other Languages: minimum of 141 hours

Emphasis Area in Teaching English to Speakers of Other Languages All candidates must complete Levels I, II, and III course work above in the College of Education. In addition, students must complete the following TESOL courses:

TCH ED 3210 (p. 333)	Generl Linguistics in Tchg English to Speakers of Other Languages	3
TCH ED 3211 (p. 333)	Basic Principles of Second and Foreign Language Acquisition	3
TCH ED 3213 (p. 333)	Performance-based Assessment for TOSOL	3
TCH ED 3214 (p. 333)	Material Development and Methods for TESOL	3
ELE ED 4994 (p. 333)	Practicum I: Elementary/TESOL Site Based Experience	3
ELE ED 4995 (p. 333)	Practicum II: Elementary/TESOL Site Based Experience	12

Total for the B.S.Ed. in Elementary Education with Emphasis in Teaching English to Speakers of Other Languages:minimum of 126 hours

Bachelor of Science in Education: Elementary Education (Middle School Certification)

This area of specialization in elementary education prepares students to teach in grades 5-9.

General Education Requirements

General education (p. 28) requirements are the same as for elementary education.

Program Requirements

Level I: Exploring Education as a Profession

ED PSY 2212 (p.	Introduction To Learners And Learning	3
333)		
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
Related Area Req	uirements	

ED TECH 3135

333)

EDUC 1000 (p. 333)	Effective Career Decision Making for Educators	3
ENGL 3100 (p. 333)	Junior-Level Writing	3
HLTH PE 3432	Teaching Health and Physical Education in the Elementary School	
Level II: Analyzi	ng the Nature and Processes of Education	
NAME OF TAXABLE PARTY	Lie de Taraban Educada Barana a taraban Il Sadia	

Must be admitted to the Teacher Education Program to enroll in the following courses:

ED PSY 3312 (p. Psychology of Learning, Instruction, and

Technology for Educators

Assessment

	(p. 333)		
	MID ED 4315 (p. 333)	The Middle Level School	3
	SPEC ED 3318 (p. 333)	Inclusive Classrooms	3
	TCH ED 3213 (p. 333)	Performance-based Assessment for TOSOL	3
	TCH ED 4391 (p.	Literacy for Adolescent Learners in Content Areas	3

Level III: Synthesizing Theory and Practice in Education

Entrance into Level III is based on successful completion of all course work in Levels I and II, as well as any prerequisite courses required by advanced methods courses.

MID ED 4316 (p. 333)	Middle Level Curriculum And Instruction	3
MID ED 4317 (p. 333)	The Middle-Level Child	3
Methods Course in	n Certification Area	
SEC ED 4880 (p. 333)	Writing For Teachers	3
SPEC ED 3346 (p. 333)	Literacy Assessment and Reading for Students with Special Needs	3
MID ED 4989 (p. 333)	Practicum I: Middle LEvel Education Site Based Experience	3
MID ED 4990 (p. 333)	Practicum II: Middle Level Education Site Based Experience	12

Area of Concentration for State Certification

Middle School 5-9 requires a minimum of 21 hours for certification in one specific content area (math, science, social studies or language arts). Content requirements are listed on our website.

Total: minimum 120 hours

Bachelor of Science in Education: Special Education

This is designed for students wishing to teach special education and leads to Missouri Mild/Moderate Disability: Cross Categorical, Grades K-12, teaching certificate. This certificate allows graduates to teach individuals with mental handicaps, learning disabilities, behavior disorders, physical and other health impairments, as well as cross-categorical disabilities; hence graduates have a broad range of employment opportunities.

General Education requirements (46 hours required):

Students entering college first time, Fall 2002 should refer to this bulletin for their General Education Requirements (p. 28).

English and Communication (9 hours)

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COMM 1030 (p. 333)	Interpersonal Communication I	3
or COMM 1040 (p. 333)	Introduction To Public Speaking	
ENGL 1100 (p. 333)	First-Year Writing	3
ENGL 3100 (p. 333)	Junior-Level Writing	3
Math (6 hours)		
MATH 1030 (p. 333)	College Algebra (prerequisited for 1150)	3
MATH 1150 (p. 333)	Structure Of Mathematical Systems I	3
Science (8-9 hou	ırs)	

BIOL 1012 (p.	General Biology	5
333)	and General Biology Laboratory	
& BIOL 1013 (p.		
333)		

Physical Science (Lecture and Laboratory)

Humanities (8 hours)

MUS ED 3770 (p. An Introduction To Music For The Elementary 333) School Teacher (Recommended) plus two courses from art, music, philosophy, or literature plus two courses from art, music, philosophy, or literature

Social Science (18 hours)

Social Science (1	8 hours)	
PSYCH 1003 (p. 333)	General Psychology	3
HIST 1001 (p. 333)	American Civilization To 1865	3
or HIST 1002 (p. 333)	American Civilization 1865 To Present	
POL SCI 1100 (p. 333)	Introduction To American Politics	3
ECON 3052 (p. 333)	Microeconomics For The School Curriculum	1-3
GEOG 1001 (p. 333)	Introduction To Geography	3
or GEOG 1002 (p. 333)	World Regions	
SOC 1010 (p. 333)	Introduction To Sociology	3
or ANTHRO 1025	World Cultures	

Program Requirements (78 hours)

Related Area Requirements (5 hours)

(p. 333)

	•	
HLTH PE 3432	Teaching Health and Physical Education in the	4
(p. 333)	Elementary School	
PHY ED 3261 (p.	Physical Activity For The Exceptional Learner	2
333)		

Program Require	ements (26 hours)	
	Education as a Profession	
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
EDUC 1000 (p. 333)	Building Community, Culture, and Learning in Education	3
Level II: Analyzing	the Nature and Process of Education	
CNS ED 3220 (p. 333)	Counseling Individuals With Special Needs	3
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
ED REM 3721 (p. 333)	Psychoeducational Assessment and Evaluation	3
SPEC ED 4315 (p. 333)	Speech And Language Of Exceptional Children	3
SPEC ED 4342 (p. 333)	Transition Issues And Planning	3
SPEC ED 3345 (p. 333)	Cross Categorical Special Education I	3
TCH ED 3310 (p. 333)	Methods of Teaching With Technology	3
TCH ED 3313 (p. 333)	Psychology of the Exceptional Child	3
TCH ED 3315 (p. 333)	Literacy Learning And Instruction	3
Level III: Synthesi	zing Theory and Practice in Education	
ELE ED 3336 (p. 333)	Communication Arts Learning And Instruction	3
ELE ED 4246 (p. 333)	Teaching Mathematics In The Elementary School	3
ELE ED 4253 (p. 333)	Teaching Of Social Studies In The Elementary School	3
ELE ED 4341 (p. 333)	Teaching Science In The Elementary School	3
SPEC ED 4325 (p. 333)	Behavior Management	3
ELE ED 4342 (p. 333)	Addressing Needs In Mathematics Teaching And Learning	3
SPEC ED 3346 (p. 333)	Literacy Assessment and Reading for Students with Special Needs	3
SPEC ED 3349 (p. 333)	Cross-Categorical Special Education (Must be taken concurrently with Internship)	3-6
SPEC ED 4989 (p. 333)	Special Education Professional Internship	3
Student Teaching	1	
SPEC ED 4990 (p. 333)	Special Education Student Teaching I	6
SPEC ED 4991 (p. 333)	Special Education Student Teaching II	6
4	-,	

SPEC ED 4990 (p. 333) and SPEC ED 4991 (p. 333) must be taken during the same semester.

Attention education majors: Professional education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Total: Minimum of 132 hours

Bachelor of Educational Studies

The B.E.S. is a professional degree designed for individuals who wish to study Education as a scholarly discipline but who do not wish to prepare for the professional practice for Education in the K-12 schools of this state or nation. Available emphasis areas include Early Childhood Education and Professional Education Studies.

Students follow the University's General Education Requirements (p. 28).

Communicative Skills

COMM 1040 (p 333)	. Introduction To Public Speaking	3
ENGL 1100 (p. 333)	First-Year Writing	3
ENGL 3100 (p. 333)	Junior-Level Writing	3
See requirement	nts under specific emphasis area.	
	ly (minimum 42 hours in the following three areas with ourses in each area)	
Humanities		9

			•
	Sciences		
	BIOL 1012 (p. 333)	General Biology	3
	Physical Science		

Social Sciences

HIST 1001 (p. 333)	American Civilization To 1865	3
or HIST 1002 (p. 333)	American Civilization 1865 To Present	
POL SCI 1100 (p. 333)	Introduction To American Politics	3
PSYCH 1003 (p. 333)	General Psychology	3

Cultural Diversity Course 1

Degree Requirements - Early Childhood Emphasis

Mathematical Skills

MATH 1030 (p. 333)	College Algebra	3
MATH 1150 (p. 333)	Structure Of Mathematical Systems I	3
Level I: Exploring	g Education as a Profession	
CMP SCI 1010 (p. 333)	Introduction To Computers And The Internet	3
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3
PSYCH 2270 (p. 333)	Developmental Psychology: Infancy, Childhood And Adolescence	3

¹ See General Education Section (p. 28) of the Bulletin.

TCH ED 2211 (p. 333)	Introduction To American Schools	3
TCH ED 2209 (p. 333)	Foundations of Teaching in American Schools	3
Level II: Analyzin	ng the Nature and Processes of Education	
ED PSY 3312 (p. 333)	Psychology of Learning, Instruction, and Assessment	3
TCH ED 3310 (p. 333)	Introduction To Instructional Methods	3
TCH ED 3313 (p. 333)	Psychology of the Exceptional Child	3
Level III: Synthes	sizing Theory and Practice in Education	
ECH ED 3300 (p. 333)	Introduction To Early Childhood Education	3
ECH ED 3303 (p. 333)	Curriculum And Practice Laboratory: Infant/Toddler	1
ECH ED 3304 (p. 333)	Curriculum And Practice Laboratory: Preschool	1
ECH ED 3313 (p. 333)	Curriculum And Practice: Infant/Toddler	2
ECH ED 3314 (p. 333)	Curriculum And Practice: Preschool Education	2
ECH ED 3332 (p. 333)	Literacy, Learning and Instruction For The Young Child	3
ECH ED 4317 (p. 333)	Implementation, Evaluation, and Assessment in Early Childhood Education	3
ECH ED 4320 (p. 333)	Classroom Management	3
ECH ED 4348 (p. 333)	The Acquisition Of Mathematical and Science Concepts	3
EDUC 2290 (p. 333)	Internship I	6
EDUC 2291 (p. 333)	Internship II	6
PHY ED 3282 (p. 333)	Physical Growth And Motor Development	3
SEC ED 4880 (p. 333)	Writing For Teachers	3
Second Concent	ration	

Second Concentration

Electives to total 12 hours to be chosen from ECH ED, ELE ED, SPEC ED, ED TECH, ED REM, or an area chosen in consultation with the adviser.

Degree Requirements - Professional Education Studies

Mathematical Skills

MATH 1020 (p. 333)	Contemporary Mathematics	3	
MATH 1030 (p. 333)	College Algebra	3	
Managing Inform	Managing Information Skills - Goal 2 (one course) 1		
Level I, Explorin	g Education as Profession		
CMP SCI 1010 (p. 333)	Introduction To Computers And The Internet	3	
ED PSY 2212 (p. 333)	Introduction To Learners And Learning	3	

TCH ED 2209 (p. Foundations o 333)	f Teaching in American Schools 3
Level II: Analyzing the Nature a	nd Process of Education
COMM 2231 (p. Communicatio 333)	n In The Organization 3
ED PSY 3312 (p. Psychology of 333) Assessment	Learning, Instruction, and 3
TCH ED 3313 (p. Psychology of 333)	the Exceptional Child 3

Level III, Synthesizing Theory and Practice in Education

Entrance into Level III is based on successful completion of all course work in Levels I and II.

A second series of courses in education or as approved by the advisor including a minimum of 15 hours of electives (see possible options below).

See General Education Section (https://nextbulletin.umsl.edu/ generalregulations/undergraduatestudy/ #generaleducationrequirementstext) of the Bulletin.

Minor in Literacy

A minor in literacy can be earned by successfully completing 18 hours of the following:

	ECH ED 3332	Literacy, Learning and Instruction for the Young Child ¹	3
	ELE ED 3330 (p. 333)	Literacy, Literature And The Learner	3
	ELE ED 3336 (p. 333)	Communication Arts Learning And Instruction	3
	ELE ED 3389 (p. 333)	Classroom Based Assessment To Guide Literacy Instruction	3
	ELE ED 4387	Promoting the Language and Literacy Development of Children Living in Poverty ¹	3
	ELE ED 4989 (p. 333)	Practicum I: Elementary/Special Education Site Based Experience	3
	TCH ED 3315 (p. 333)	Literacy Learning And Instruction	3
	TCH ED 4391 (p. 333)	Literacy for Adolescent Learners in Content Areas	3

Course not offered in 2013-2014. Please contact the department for more information.

Minor in Mathematics Education K-5

A minor in Mathematics Education can be earned by successfully completing 18 hours of the mathematics education field. The following mathematics education courses may be applied to the Mathematics Education Minor.

ECH ED 4348 (p. 333)	The Acquisition Of Mathematical and Science Concepts	3
ED TECH 5301 (p. 333)	Introduction To Computers And The Internet In Education	3
ELE ED 4246 (p. 333)	Teaching Mathematics In The Elementary School	3
ELE ED 4342 (p. 333)	Addressing Needs In Mathematics Teaching And Learning	3

MID ED 4246 (p. Teaching Mathematics In The Middle School 333)

Minor in Urban Education P-5

A minor in Urban Education P-5 can be earned by successfully completing the following 18 hours of Teacher Education, Early Childhood, and Elementary Education courses. Students must register for the special sections of these courses that are offered in urban settings to meet the requirements of this minor:

ECH ED 4989 (p. 333)	Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience	3
ELE ED 4989 (p. 333)	Practicum I: Elementary/Special Education Site Based Experience	3
or ECH ED 4989 (p. 333)	Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience	
ELE ED 3330 (p. 333)	Literacy, Literature And The Learner	3
ELE ED 3336 (p. 333)	Communication Arts Learning And Instruction	3
ELE ED 4320 (p. 333)	Classroom Management	3
or ECH ED 4320 (p. 333)	Classroom Management	
ELE ED 4989 (p. 333)	Practicum I: Elementary/Special Education Site Based Experience	3
or TCH ED 2311 (p. 333)	Foundations In Urban Education And Social Justice	
TCH ED 4988 (p. 333)	Teaching and Learning in Urban Schools	3

Minor in Teaching English to Speakers of Other Languages K-12

A minor in Teaching English to Speakers of Other Languages (TESOL) can be earned by successfully completing 18 hours of coursework that is identified to prepare the student to earn a TESOL teaching endorsement as an additional area of teaching certification by the Missouri Department of Elementary and Secondary Education (DESE).

TCH ED 3210 (p. 333)	Generl Linguistics in Tchg English to Speakers of Other Languages	3
TCH ED 3211 (p. 333)	Basic Principles of Second and Foreign Language Acquisition	3
TCH ED 3212 (p. 333)	Sociolinguistics and communication in the Classroom	3
TCH ED 3213 (p. 333)	Performance-based Assessment for TOSOL	3
TCH ED 3214 (p. 333)	Material Development and Methods for TESOL	3
TCH ED 3215 (p. 333)	Field Experiences in TESOL	3

Master of Education: Elementary Education

General Curricular Program or Specialization in Selected Curricular Areas

The M.Ed. program in elementary education has a general program option, an emphasis in reading option, and an early childhood education option. All options consist of an initial required core of courses; a concentration area; an optional specialization area; a teacher research course; and a capstone or exit course. Areas of specialization are suggested below. A minimum of 33 hours is required for the degree; additional hours may be necessary for reading specialist certification.

1) Required Core (9 hours)

Students are required to complete the following courses within the first 15 hours of study.

\frac{1}{2}	xamining History, Community And Social Justice	3
TCH ED 6020 (p. T 333)	eacher Action, Advocacy And Leadership	3
ED PSY 6030 (p. Ir 333)	nstruction, Learning And Assessment	3
2) Required Resear	rch Course (3 hours)	
TCH ED 6909 (p. _T	eacher Action Research I ¹	3

A curriculum course (required):

3) Elementary Education Concentration

ELE ED 6411 Curricular Issues In Early Childhood And (p. 333) Elementary Programs

Students should select at least 9 additional hours in one or more of the following areas: children's literature, early childhood, language arts, mathematics education, reading, science education, social studies education, special education, physical education, educational technology, curriculum development, improvement of instruction, or another area as identified in consultation with the faculty advisor.

4) Specialization Areas (Optional) 2

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Students may follow one of the core competency courses with two additional courses to develop an area of specialization, such as:

Educational Psychology Option:

ED PSY 6030 Instruction, Learning And Assessment (p. 333)

ED PSY 6210 Life-Span: Individual and Family Development (p. 333)

or ED PSY/ED Technology-Supported Inquiry Learning TECH 6448 (p. 333)

and one of the following:

ED PSY 6210 Life-Span: Individual and Family Development (p. 333)

or ED PSY 621: Psychology Of Early Childhood Development (p. 333)

or ED PSY 622 Psychology Of The Elementary School Child (p. 333)

or ED PSY 622 Psychology Of The Elementary School Child (p. 333)

Educational Techonology Option:

ED PSY 6030 (p. 333)	Instruction, Learning And Assessment	
ED TECH 53 (p. 333)	01 Introduction To Computers And The Internet In Education	
ED TECH 53- (p. 333)	40 Selection And Utilization Of Educational Multimedia	
 		_

5) Capstone Course (3 hours)

Students must enroll in the capstone course during their last semester and after completing Teacher Action Research I TCH ED 6909 for practicing teachers.

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TCH ED 6910 (p. Teacher Action Research Capstone 333)

- Take semester prior to Teacher Action Research Capstone (TCH ED 6910 (p. 333)). For non-teacher candidates, ED REM 6040 (p. 333) or TCH ED 6909 (p. 333) can be taken.
- Other specialization areas are available and information is available in the Graduate Education and Teaching & Learning Division office.
- 3 This course is not offered in summer sessions.

Emphasis in Reading

The M.Ed. program with emphasis in reading (literacy) is designed to enable candidates to further their competencies as teachers of reading, writing, and the other communication arts. The program also prepares them for positions as literacy coaches, reading specialists, curriculum specialist in communication arts and reading areas, consultants in areas of communication arts, and/or for further graduate study. The following program enables the student to earn a M.Ed. with an emphasis in Reading while fulfilling the Department of Elementary and Secondary Education's requirements for special reading certification in Missouri. Students must complete the first two levels of the Required Core, an educational psychology course, an approved educational research course, 18 hours of literacy courses, and an action research capstone course. The minimum required and recommended courses are as follows:

Required Core (9 hours)

TCH ED 6010 (p. 333)	Examining History, Community And Social Justice In Education	3	
TCH ED 6020 (p. 333)	Teacher Action, Advocacy And Leadership	3	
ED PSY 6030 (p. 333)	Instruction, Learning And Assessment ¹	3	
Required Resear	ch Course – Evaluation of Abilities and		
Achievement (3 hours)			
Choose one cours	se. Dependent on student needs and interests.	3	
ED REM 6707 (p. 333)	Classroom Measurement And Evaluation		
ED REM 6709 (p. 333)	Educational And Psychological Measurement		
ED REM 6716 (p. 333)	Academic Assessment and Intervention		

Reading Concentration (18 hours):

Req	uired	Course	S
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ELE ED 6387 (p.	Literacy Acquisition And Learning For Diverse	3
333)	Students	
ELE ED 6684 (p.	Instructional Strategies For Teaching Reading	3
333)		

ELE ED 6686 (p. 333)	Analysis And Correction Of Reading Disabilities	3
ELE ED 6493 (p. 333)	Reading Specialist Practicum I	3
ELE ED 6494 (p. 333)	Reading Specialist Practicum II	3
And at least one course from the literacy-related elective list or from the certification-related elective list below (min. 3 hrs):		
Literacy Related E	Electives	
ELE ED 6436 (p. 333)	Children's Literature I: Survey And Analysis	3
ELE ED 6688 (p. 333)	Literacy Assessment To Guide Instruction	3
ENGL 6880 (p. 333)	Gateway Writing Project	3-6
TCH ED 5312 (p. 333)	Differentiated Instruction	4
Capstone Course (3 hours)		
ELE ED 6482 (p. 333)	Problems And Research In Teaching Elementary School	3

A graduate level course in child psychology or adolescent psychology may be substituted if needed for certification.

To be recommended for Missouri Department of Elementary and Secondary Education special reading certification, teachers must have a valid Missouri teacher's certificate and two years of classroom teaching experience, and they must have had the following at either the undergraduate or graduate level: two additional courses in reading; language acquisition or development; classroom management techniques; counseling techniques (to include exceptional children and their families: child AND adolescent psychology; and testing, evaluation, and achievement. These certification requirements might be in addition to the courses listed in the program of study above. See your graduate advisor for information about these courses. M. Ed. Students needing any of the above can elect to take these courses at the graduate level where available and apply them to their concentration area.

Certification Related Electives

CNS ED 3220	Counseling Individuals With Special Needs	3
ED PSY 6220	Psychology Of The Elementary School Child	3
ED PSY 6225	The Psychology Of Adolescence	3
ED REM 6707	Classroom Measurement And Evaluation	3
ED REM 6709	Educational And Psychological Measurement	3

^{*}Only one 4000 level course can be applied to the M.Ed.

Certification Options

A combined M.Ed. and certification option exists. Options include elementary education (18), early childhood education (PK3), and middle school/junior high (49). Students should consult certification advisers. Graduate credit will not be given for courses at the 1000 to 3000 levels and only one 4000 level course can be applied to an M.Ed. degree.

Early Childhood Education Emphasis

The M.Ed. program with an emphasis in early childhood education is designed to enable candidates to further their competencies as teachers or program administrators in public and private early childhood program. The program also prepares them for positions in community agencies

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that support families and young children. The minimum required and recommended courses are as follows. Students must complete the required Core Competencies and Capstone Course as listed above.

Required:

ECH ED 6412 (p. 333)	Foundations Of Early Childhood Education	3
ECH ED 6413 (p. 333)	Educational Role Of Play	3
ECH ED 6415 (p. 333)	Organization And Development Of Early Childhood Programs	3
Elective hours		6

Total: 33 hours

Master of Education: Special Education

The M. Ed. Program in special education includes a representation of the important core knowledge in Special Education. The primary goal is to empower professionals to be thoughtful teachers who use best practice when working with students with disabilities. Research and data-based decision making are emphasized throughout the program. Graduate students will translate research into practice in their courses, and learn to analyze multiple types of assessment data. The M. Ed. Program in Special Education consists of an initial required core of courses; an opportunity to develop an area of specialization; and a capstone or exit course.

When graduate students are accepted into the program they are required to have their transcripts analyzed for state certification discrepancies. Students who wish to be certified in cross-categorical disabilities will be required to fulfill general certification requirements as well as graduate coursework. Upon completion of this advanced degree, professionals will have developed an in-depth knowledge-base related to

- · various learning contexts within and outside of the school setting
- the multiple influences on educational practices in schools
- the characteristics and instructional needs of learners with disabilities
- · assessment strategies for monitoring instruction
- · instructional best practice
- · using research to direct practice in the classroom
- diversity
- · contexts that affect student learning
- the powerful interactions between setting events and specific learner outcomes
- a life-perspective of students with exceptional learning needs that addresses the need to successfully meet the needs of young children who transition into kindergarten as well as preparing older students for their transition into adulthood.

1) Required Core (9 hours)

Students are required to complete the following courses within the first 15 hours of study.

TCH ED 6010 (p. Examining History, Community And Social Justice 333) In Education
TCH ED 6020 (p. Teacher Action, Advocacy And Leadership

ED PSY 6030 (p. Instruction, Learning And Assessment 333)

2) Required Research Course (3 hours)

TCH ED 6909 (p. 333)	Teacher Action Research I ¹	3
3) Special Educa	tion Concentration (9 hours)	
ED PSY 6545 (p. 333)	Consultation In Schools And Related Settings	3
SPEC ED 6325 (p. 333)	Advanced Studies in Classroom & Behavior Management	3
SPEC ED 6415 (p. 333)	The Law And Special Education	3
4) Special Educa	tion Concentration Electives (9 hours):	
Cross Categorical	Disabilities (6 hours)	
either the Early Cl Studies concentra	e option of enrolling in a 3 credit hour course from hildhood Special Education concentration, Autism tion or an additional course in the Cross-Categorical order to meet the 9 credit hour course requirement.	
SPEC ED 6437 (p. 333)	Individual and Schoolwide Systems of Positive Behavior Support	3
SPEC ED 6345 (p. 333)	Characteristics and Education of Students with High-Incidence Disabilities	3
SPEC ED 6346 (p. 333)	Reading Instruction and Intervention in Special Education	3
SPEC ED 6443 (p. 333)	Characteristics and Education of Students with Learning Disabilities	3
SPEC ED 6450 (p. 333)	Characteristics and Education of Students with Emotional/Behavioral Disorders	3
ED PSY 6542 (p. 333)	Social-Emotional and Behavior Interventions	3
Autism and Devel	opmental Disabilities (9 hours)	
SPEC ED 6430 (p. 333)	Characteristics and Education of Individuals with Low-Incidence Disabilities	3
SPEC ED 6610 (p. 333)	Foundations of Autism Spectrum Disorder: Research to Practice	3
SPEC ED 6620 (p. 333)	Assessment and Interventions for Children and Youth with Autism Spectrum Disorder	3
Early Childhood S	Special Education (9)	
SPEC ED 6372 (p. 333)	Screening And Diagnosis Of Developmental Delays: Birth To 5 Years	3
SPEC ED 6462 (p. 333)	Introduction To Early Childhood Special Education	3
SPEC ED 6463 (p. 333)	Curriculum, Methods, And Materials For Early Childhood Special Ed	3
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5) Capstone Course (3 hours)

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Students must enroll in the capstone course during their last semester and after completing TCH ED 6909 (p. 333) for practicing teachers.

TCH ED 6910 (p. Teacher Action Research Capstone ² 333)

- Take semester prior to Teacher Action Research Capstone (TCH ED 6910 (p. 333)). For non-teacher candidates, ED REM 6040 (p. 333) or TCH ED 6909 (p. 333) can be taken.
- ² This course is not offered in summer sessions.

Total hours: minimum 33 credit hours

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The Graduate Certificate in Autism Studies

The mission of the certificate program is:

- To improve current preparation of teachers and related educational practitioners in the greater St. Louis area with dedicated coursework that increases program participants' understanding and skills necessary to providing comprehensive and holistic programming (in areas of academic, social, functional, and life skills) that addresses the unique characteristics of individuals with Autism.
- To provide contemporary, best practices-based preparation of professionals who specialize in the treatment of individuals with autism spectrum disorders (ASD) and/or who work collaboratively with school personnel to recognize and follow the ASD profile that best educates the students
- To gain greater understanding of challenges faced by families of individuals with ASD
- To prepare personnel to educate and support individuals with ASD, which includes autism, Asperger Syndrome, and other pervasive developmental disorders
- To address the complex needs of students with ASD, including those
 who require intensive and highly individualized programs, to those who
 require less intensive modifications to succeed in their educational,
 functional, and life goals
- To increase the current body of scholarly and applied knowledge pertaining to the science and practice in areas of cognitive disability studies

Required Courses

SPEC ED 6325 (p. 333)	Advanced Studies in Classroom & Behavior Management	3
SPEC ED 6415 (p. 333)	The Law And Special Education	3
ED PSY 6545 (p. 333)	Consultation In Schools And Related Settings	3
SPEC ED 6430 (p. 333)	Characteristics and Education of Individuals with Low-Incidence Disabilities	3
SPEC ED 6610 (p. 333)	Foundations of Autism Spectrum Disorder: Research to Practice	3
SPEC ED 6620 (p. 333)	Assessment and Interventions for Children and Youth with Autism Spectrum Disorder	3

Total Hours: Minimum 18 credit hours

Early Childhood Education Courses

ECH ED 3300 Introduction To Early Childhood Education: 3 semester hours

Prerequisites: Level I. Students will use theoretical bases as well as on site observations to develop an awareness of teaching learning strategies appropriate for the developmental needs of children from birth through age eight. Scheduling, classroom arrangement, and child management practices will be considered. Students will develop their own philosophy of early childhood education.

ECH ED 3301 Early Childhood Special Education Processes and Trends: 3 semester hours

Prerequisites: Completion of Level 1 requirementsBulletin description: Focus on the history and federal laws related to the early childhood special education process. Examination of child development theories and assessment to determine if developmental delays exist. Emphasis on the importance of collaboration between teachers and therapists for service delivery, designing effective transition plans and integrating intervention services into a developmentally appropriate curriculum.

ECH ED 3303 Curriculum And Practice Laboratory: Infant/Toddler: 1 semester hour

Classroom experience in infant or toddler classrooms under directions of university personnel, Must be taken concurrently with ECH ED 3313 Curriculum and Practice: Infant/Toddler.

ECH ED 3304 Curriculum And Practice Laboratory: Preschool: 1 semester hour

Classroom experience in preschool classrooms under direction of university personnel. Must be taken concurrently with ECH ED 3314 Curriculum and Practice: Preschool.

ECH ED 3313 Curriculum And Practice: Infant/Toddler: 2 semester

Prerequisites: ECH ED 3300. Design and implementation of integrated curriculum for children from birth to 30 months. Must be taken concurrently with ECH ED 3303

ECH ED 3314 Curriculum And Practice: Preschool Education: 2 semester hours

Prerequisites: ECH ED 3300. Design and implementation of integrated curriculum for the inclusive preschool classroom with emphasis on science, social studies, creative activities and technology. Must be taken concurrently with ECH ED 3304.

ECH ED 3332 Literacy, Learning and Instruction For The Young Child: 3 semester hours

Prerequisites: Level I. Attention on the home language and environment of young children as they construct knowledge of print from birth to age eight. Critical examination of the range of opportunities for early literacy learning available to children from economically advantaged and disadvantaged communities. Emphasis on meaningful, culturally, and developmentally appropriate activities for fostering beginning reading and writing. Focus on strategies for involving families and capitalizing on community resources in promoting language and literacy learning for young children. This course may be applied toward a Literacy Minor.

ECH ED 3350 Child/Family and Education and Community Involvement: 3 semester hours

Prerequisites: ECH ED 3300, Formal Admission to the Teacher Education Program. This course is designed to provide students with the knowledge and skills needed to work successfully with diverse families and family groups in individual and community settings. The focus will be on strengthening adult-child relationships and family-staff relationships in the home, school, and community settings. Family involvement in early childhood programs and sharing information with families will be stressed.

ECH ED 4315 Curriculum And Practice: Primary Education: 2 semester hours

Prerequisite: ECH ED 3300. Focuses on planning integrated curriculum for the primary classroom with emphasis on science, social studies, creative activities and technology. Working with parents and parent education emphasized. Lab required.

ECH ED 4317 Implementation, Evaluation, and Assessment in Early Childhood Education: 3 semester hours

Prerequisites: Level I and Level II, admission to the teacher education program, ECH ED 3300. Techniques of observing children and using assessment instruments to plan and implement individual program plans for early childhood. Practicum experience required.

ECH ED 4320 Classroom Management: 3 semester hours

Same as SPEC ED 4320, ELE ED 4320, SEC ED 4320. Prerequisites: Level I and II courses or consent of instructor. Understanding classroom management as the development of engaging instruction that establishes healthy and culturally appropriate teacher-student relationships, builds successful classroom community and enhances student learning. Participants develop a culturally relevant classroom management plan that includes rules, procedures, expected behaviors and uses problem solving strategies to resolve behavior problems. Emphasis is on the teacher developing the social competence of Pre K-12 students within culturally diverse classrooms and engaging families in supportive interactions.

ECH ED 4341 Exploring The Physical World With Young Children: 3 semester hours

Prerequisite: ECH ED 3312 and completion of science requirements in general education. A study of and experiences with materials, techniques and resources for broadening the child's awareness and understanding of science.

ECH ED 4348 The Acquisition Of Mathematical and Science Concepts: 3 semester hours

Prerequisites: Formal admission to the Teacher Education Program, ED PSY 3312, and MATH 1150. Applications of the major theorists to mathematics reasoning and scientific inquiry. Content is appropriate for pre-K to third grade learners. Research and its implications for practice in the areas of logical thinking, pre-number ideas, geometry, topology, arithmetical operations, problem solving, observation, inquiry and documentation are considered.

ECH ED 4351 Exploring The Social World With Young Child: 3 semester hours

Prerequisite: ECH ED 3312 and completion of social science requirements in general education. A study of and experience with materials, techniques and resources for furthering the child's mastery of the skills of communication; his understanding of people, social roles, society and various cultures; his ability to develop satisfying relationships with peers and adults.

ECH ED 4390 Student Teaching In Early Childhood Education III: 5 semester hours

Prerequisite: ECH ED 3291 or equivalent and admission to student teaching. Clinical teaching experience in early childhood education classrooms in the schools under university and school supervision with seminar included. For students who wish an additional student teaching experience.

ECH ED 4989 Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience: 3 semester hours

Prerequisites: Level I and Level II requirementsBulletin description: This course is an intensive professional development experience (2 days per week) working in a preschool and elementary (as applicable) setting with students. Activities on site include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Particular emphasis will be given to impacting students' achievement for diverse populations and differentiated instruction. Level III methods course assignments may be completed during the practicum day at school sites and Practicum I experiences inform Level III coursework. Practicum I is taken in the semester immediately preceeding Practicum II. Not available for graduate credit.

ECH ED 4990 Practicum II: Early Childhood Education/Early Childhood Special Education Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in ECH ED 4989 and admission to Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur with two different age levels (infant/toddler; pre-k; or k-3) within preschool and elementary schools. These sites offer settings where classrooms implement inclusion (combined general education and special education) and/or have pull-out resources room setting and may also have self-contained settings where students with complex disabilities are educated exclusively. Not available for graduate credit.

ECH ED 4991 Practicum II: Early Childhood Education Site Based Experience: 12 semester hours

Prerequisites: Level II, ECH ED 3313, ECH ED 3314, Grade of C or higher in ECH ED 4989 and admission to the Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur with two different age levels (infant/toddler; pre-k; or k-3) within preschool and elementary schools. Required of all majors in Early Childhood Education. Not available for graduate credit.

ECH ED 6321 Parent And Community Resources In Early Childhood Education: 3 semester hours

Prerequisite: Graduate Standing Competencies for working with parents and community agencies will be developed through a study of community and community resources. Procedures for parent participation and use of service agencies in the education of all young children, including those with special needs, will be examined.

ECH ED 6412 Foundations Of Early Childhood Education: 3 semester hours

Prerequisite: A course in child psychology or equivalent. A study of the various types of early childhood programs and the philosophy upon which they are based. Attention will also be directed to the implementation of such programs, problems of parent involvement and the social environment of the children.

ECH ED 6413 Educational Role Of Play: 3 semester hours

Prequisites: ECH ED 3312 or Equivalent. Emphasizes play as a constructive process with application to cognitive and social development. Special attention to facilitating play in early childhood classrooms.

ECH ED 6415 Organization And Development Of Early Childhood Programs: 3 semester hours

Prerequisites: ECH ED 3312 or equivalent. Strategies for the effective organization and development of programs for children from diverse cultures, ages birth through age eight years, will be studied. Research and theory in funding and budgeting, staffing and professional development, and selection, development, and assessment of program curriculum will be emphasized. Long-range planning for program stability and involvement in advocacy issues will be covered.

ECH ED 6490 Internship: 1-10 semester hours

Prerequisite: consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation and related professional activities.

ECH ED 6497 Problems: 1-10 semester hours

Prerequisite: Graduate standing. Individual study on topics pertaining to early childhood education.

Elementary Education Courses

ELE ED 2192 Educational Laboratory/Field Experience: 1-3 semester hours

A laboratory/field experience requiring systematic observation and/or participation in appropriate educational settings. To precede student teaching. May be repeated to maximum of three hours.

ELE ED 3330 Literacy, Literature And The Learner: 3 semester hours

Prerequisites: Level I requirements. Exploration of literature and literacy-related resources available to teachers for children and young people. Emphasis on critical reading of literature for a variety of purposes, including communication, instruction, information, and recreation. Focus on the development of criteria for evaluating and selecting culturally and developmentally appropriate materials for motivating students to read in school and at home, as well as strategies for using literature to build family and school partnerships around reading. Twelve hours of participation in a school classroom setting are required. This course may be applied toward a Literacy Minor.

ELE ED 3336 Communication Arts Learning And Instruction: 3 semester hours

Prerequisites: Level I and Level II requirements. Analysis of the six communication arts (listening, speaking, viewing, visually representing, writing, and reading) across content areas. Attention on understanding children's home language and how children learn and develop communication skills. Special emphasis on strategies for assessing and teaching reading and writing, including workshop models, spelling, grammar, and grand conversations to meet the needs of every child. This course may be applied toward a Literacy Minor.

ELE ED 3337 Teaching and Learning Literacy in the Elementary Classroom: 4 semester hours

Prerequisite: Level I. The course, emphasizing literacy development, literacy instruction and children's literature, is the first in a sequence of two courses on teaching reading and writing. The purposes of this course are to survey literacy and literacy development as social practices, to focus on methods of teaching reading and writing, and to utilize children's literature within classroom practice. Instructional practices explored will include reading and writing workshops, guided reading, word work and phonics alongside matching texts (print and digital) and readers. Assessment strategies that inform these instructional practices will be introduced. Particular attention will be given to learning to teach literacy within diverse contexts and with multicultural groups of student.s.

ELE ED 3338 Literacy Assessment and Learning: 3 semester hours

Prerequisites: Level II and ELE ED 3337. The purposes of this course are to address issues of the differences and difficulties that may occur in literacy processes, evaluation of students' literacy skills, analysis of texts for their use by readers, and to design classroom literacy engagements that utilize a variety of instructional strategies and materials. Assessment practices explored will include running records, qualitative reading inventories, spelling inventories and writing assessment. Teacher candidates will learn to assess and create literacy instruction that is multicultural and integrates global technologies.

ELE ED 3389 Classroom Based Assessment To Guide Literacy Instruction: 3 semester hours

Prerequisites: TCH ED 3315 or TCH ED 4391 or equivalent reading methods course. Analysis of strategies for differentiating instruction for a range of readers and writers across content areas. Focus on cultural and language considerations in the assessment of students' literacy skills. Emphasis on meeting the needs of individual readers and writers in the context of whole class instruction. This course may be applied toward a Literacy Minor.

ELE ED 4246 Teaching Mathematics In The Elementary School: 3 semester hours

Prerequisite: Junior standing and completion of mathematics requirements in General Education. Organization and implementation of a modern elementary school mathematics program. If taken concurrently with internship, field hours will be combined within the internship experience. If this course is taken separately, then K-6 based field experiences are required in addition to scheduled course time.

ELE ED 4253 Teaching Of Social Studies In The Elementary School: 3 semester hours

Prerequisite: Junior standing and completion of social science requirements in general education. Study of elementary school social studies emphasizing the current social studies curricular content, methods of teaching and instructional materials. If taken concurrently with internship, field hours will be combined within the internship experience. If this course is taken separately, the K-6 based field experiences are required in addition to scheduled course time.

ELE ED 4320 Classroom Management: 3 semester hours

Same as SPEC ED 4320, ECH ED 4320, SEC ED 4320. Prerequisites: Level I and II courses or consent of instructor. Understanding classroom management as the development of engaging instruction that establishes healthy and culturally appropriate teacher-student relationships, builds successful classroom community and enhances student learning. Participants develop a culturally relevant classroom management plan that includes rules, procedures, expected behaviors and uses problem solving strategies to resolve behavior problems. Emphasis is on the teacher developing the social competence of Pre K-12 students within culturally diverse classrooms and engaging families in supportive interactions.

ELE ED 4341 Teaching Science In The Elementary School: 3 semester hours

Prerequisites: Level I and Level II requirements. An analysis of teaching science to K-6 students with emphasis on current science education trends, science curricular materials, and strategies of instruction. If taken concurrently with internship, field hours will be combined within the internship experience. If this course is taken separately, then K-6 based field experiences are required in addition to scheduled course time.

ELE ED 4342 Addressing Needs In Mathematics Teaching And Learning: 3 semester hours

Prerequisite: ELE ED 4246. Instructional strategies for analyzing and addressing needs of students who have difficulties understanding and becoming proficient in mathematics. Conceptual development and procedural fluency are approached in a diagnostic and prescriptive context. Course requires that students participate in K-12 classrooms for a minimum of 10 hours, in addition to university class schedule.

ELE ED 4989 Practicum I: Elementary/Special Education Site Based Experience: 3 semester hours

Prerequisites: Level I and Level II requirements. This course is an intensive professional development experience (2 days per week) working in K-12 settings with students. Activities on site include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Particular emphasis will be given to impacting students achievement for diverse populations and differentiated instruction. Level III methods course assignments will be completed during the practicum day at school sites and Practicum I experiences inform Level III coursework. Practicum I is taken in the semester immediately preceeding Practicum II. Not available for graduate credit.

ELE ED 4990 Practicum II: Elementary/Special Education Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in ELE ED 4989 and admission to Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur in K-12 school settings. These sites offer settings where classrooms implement inclusion (combined general education and special education) and/or have pull-out resource room settings and may also have self-contained settings where students with complex disabilities are educated exclusively. Not available for graduate credit

ELE ED 4991 Practicum II: Elementary Education Site Based Experience: 12 semester hours

Prerequisite: Grade of C or higher in ELE ED 4989 and admission to the Teacher Education Program. Clinical teaching experiences 4 days per week where placements occur in elementary school settings. Required for all majors in Elementary Education. Not available for graduate credit.

ELE ED 4992 Practicum I: Elementary/Special Education/TESOL Site Based Experience: 3 semester hours

Prerequisites: Completion of Level I and Level II requirements. This course is an intensive professional development experience (2 days per week) working in K-12 settings with students. Activities on site include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Particular emphasis will be given to differentiated instruction and impacting student achievement for diverse populations. Level III methods course assignments will be completed during the practicum day at school sites and Practicum I experiences inform Level III coursework. Practicum I is taken in the semester immediately preceding Practicum II. Not available for graduate credit.

ELE ED 4993 Practicum II: Elementary/Special Education/TESOL Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in Practicum I and admission to the Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur in K-12 school settings. These sites offer settings where classrooms have ESOL and implement inclusion (combined general education and special education), and/or have pull-out resource room settings and may also have self-contained settings where students with complex disabilities are educated exclusively. Not for graduate credit.

ELE ED 4994 Practicum I: Elementary/TESOL Site Based Experience: 3 semester hours

Prerequisites: Completion of Level I and Level II requirements. This course is an intensive professional development experience (2 days per week) working in K-12 settings with students. Activities on site include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Particular emphasis will be given to differentiated instruction and impacting student achievement for diverse populations. Level III methods course assignments will be completed during the practicum day at school sites and Practicum I experiences inform Level III coursework. Practicum I is taken in the semester immediately preceeding Practicum II. Not available for graduate credit.

ELE ED 4995 Practicum II: Elementary/TESOL Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in Practicum I and admission to the Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur in K-12 school settings. These sites offer settings where classrooms include ESOL. Not for graduate credit.

ELE ED 6387 Literacy Acquisition And Learning For Diverse Students: 3 semester hours

Prerequisite: Graduate Standing. Designed to extend teacher understanding of children's literacy aquisition, development, and learning through the elementary grades. Emphasis on development of a teaching philosophy and skills which include maintaining effective literacy learning environments in diverse classrooms, fostering culturally responsive classroom communities, understanding social and environmental issues that affect the literacy learning of diverse learners, using effective methods and materials to develop engaged and literate students, and fostering children's participation in literacy activities.

ELE ED 6410 Current Research In Early Childhood And Elementary Programs: 3 semester hours

Prerequisites: Graduate Admission A systematic examination of research related to early childhood and elementary school programs. Student will be expected to become effective consumers of educational research and to utilize appropriate research findings in their decision-making processes when planning instruction.

ELE ED 6411 Curricular Issues In Early Childhood And Elementary Programs: 3 semester hours

Prerequisite: ED REM 6040 Selected contemporary problems that affect classroom decisions. Technology, literacy, meeting individual needs, diversity, and dealing with discipline are studied through investigative discussions, reading, and a research paper.

ELE ED 6422 Curriculum Construction In Early Childhood & Elementary Programs: 3 semester hours

Prerequisites: ELE ED 6410 and ELE ED 6411. A study of current and classic curricular models early childhood and elementary education. Using developmental learning theory, students will select appropriate curriculum and develop activities for the early childhood or elementary classroom. Students begin a research project by gathering data and evaluating curricular designs from the models studied.

ELE ED 6423 Curricular Implementation-Early Childhood & Elementary Programs: 3 semester hours

Prerequisites: ELE ED 6422 Implementation of a culminating project designed in ELE ED 6422. Students will study implementation and evaluation strategies for the project. The project will be implemented during the semester and students will conduct an evaluation of the project by the end of the semester.

ELE ED 6426 Elementary School Curriculum Reform In The Earth/ Space Sciences: 1-4 semester hours

Prerequisites: Graduate standing. Field-based experiences in improving the district-level elementary school science program, with special attention to the earth/space sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. To reflect the number of modules selected by the student, this course may be repeated for a maximum of 4 credit hours.

ELE ED 6428 Elementary School Curriculum Reform In The Life Sciences: 1-4 semester hours

Prerequisite: Graduate Standing. Field-based experiences in improving the district-level elementary school science program, with special attention to the life sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. This course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. The course may be repeated for maximum of 4 credit hours.

ELE ED 6429 Elementary School Curriculum Reform In The Physical Sciences: 1-4 semester hours

Prerequisite: Graduate standing Field-based experiences in improving the district-level elementary school science program, with special attention to the physical sciences. Emphasis is given to planning and implementing standards-based inquiry science activities that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. The course may be repeated for a maximum of 4 credit hours.

ELE ED 6436 Children's Literature I: Survey And Analysis: 3 semester hours

Prerequisite: ELE ED 3330 or equivalent. A survey of children's literature published in the last ten years. Special emphasis will be placed on the relationship between children's literature and contemporary issues of society. Students will experience the materials themselves rather than reading about books. In addition, students will begin to study the literary elements that make literature interesting and meaningful for children.

ELE ED 6441 Problems And Research In Teaching Elementary School Science: 3 semester hours

Prerequisite: Eight hours of science, ELE ED 6441, ED PSY 6411. A thorough examination of research related to elementary school science instruction with particular emphasis on innovative programs. Includes methods of investigation and techniques for interpreting the professional literature.

ELE ED 6442 Elementary School Curriculum Reform In The Health Sciences: 1-4 semester hours

Prerequisite: Graduate standing Field-based experiences in improving the district-level elementary school science program, with special attention to the health sciences. Emphasis is given to planning and implementing standards-based inquiry science activities that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. The course may be repeated for a maximum of 4 credit hours.

ELE ED 6445 Problems Of Teaching Mathematics In The Elementary School: 3 semester hours

A study of the mathematics program in the elementary school from the viewpoint of goals, content, techniques, and evaluation.

ELE ED 6447 Problems And Research In Teaching Elementary School Mathematics: 3 semester hours

Prerequisite: ELE ED 6455. A thorough examination of research related to recurrent problems in elementary school mathematics instruction, as well as current problems arising within modern programs. Includes methodology appropriate to investigation of such problems and techniques for assessment of the literature.

ELE ED 6448 Diagnosis And Remediation Of Disabilites In Learning Mathematics: 3 semester hours

Prerequisite: ELE ED 6445. Causes of mathematical disabilities. Materials and techniques for diagnoses and corrective programs for children and youth.

ELE ED 6450 Problems Of Teaching Social Studies In The Elementary School: 3 semester hours

A classroom-oriented study of curricular and instructional problems encountered in social studies. Emphasis is placed upon development of materials, techniques, and resources.

ELE ED 6482 Problems And Research In Teaching Elementary School: 3 semester hours

This is the capstone course for the Master of Elementary Education-Emphasis in Reading. To be taken in the last 9 hours of Masters Program. The three foci for this course are (1) systematic study of research as it focuses on the problems of teaching reading in the elementary school, (2) innovations in the field, and (3) action research. Each student designs and completes an action research project related to literacy.

ELE ED 6490 Internship: 1-10 semester hours

Prerequisite: Consent Of Instructor. Closely Supervised Experience In A Field Seting Under The Direction Of A Graduate Faculty Member. An Appropriate Level Of Competence And Evidence Of Growth In The Professional Role Must Be Demonstrated By The Intern. The Internship Will Include Planning, Research, Evaluation, And Related Professional Activities.

ELE ED 6493 Reading Specialist Practicum I: 3 semester hours

Prerequisites: ELE ED 6684, ELE ED 6686, and ELE ED 6707, ELE ED 6709, or ELE ED 6716. Application of reading theory and research in a supervised setting. Emphasis on assessing and analyzing the literacy strengths, needs, and interests of a range of readers with the goal of improving their reading abilities and attitudes. Focus is on establishing reading support for children with the assistance of formal and informal assessments, reading professionals, educators, and children's families.

ELE ED 6494 Reading Specialist Practicum II: 3 semester hours

Prerequisite: ELE ED 6493 Application of reading theory and research in a supervised setting. Emphasis on using appropriate materials and providing effective instructional techniques to address children's assessed literacy strengths, needs, and interests with the goal of improving their reading abilities and attitudes. Focus is on sustaining reading support for children with the assistance of other reading professionals, educators, and children's families.

ELE ED 6495 Supervision Of Practicum In Clinical Reading: 3 semester hours

Prerequisites: ELE ED 6486, ELE ED 6494, ED REM 6716 or consent of instructor Supervising graduate students in diagnosis and remedial process within the reading clinic.

ELE ED 6497 Problems: 1-10 semester hours

Selected problems to meet the needs of individual students.

ELE ED 6684 Instructional Strategies For Teaching Reading: 3 semester hours

Prerequisites: Graduate standing. Designed to extend teacher knowledge of effective instructional strategies for teaching reading. Emphasis on development of a teaching philosophy which acknowledges children gain considerable knowledge about reading from their families and communities, long before they encounter formal reading instruction. Focus on fostering culturally responsive classrooms using children's prior experiences, their language systems, cross-cultural literature, authentic texts, and other print materials familiar to children's home environments, as well as on teaching effective strategies to promote children's reading success.

ELE ED 6686 Analysis And Correction Of Reading Disabilities: 3 semester hours

Prerequisites: ED REM 6707, ED REM 6709, or ED REM 6716 and at least one graduate level literacy course. Designed to develop teacher understanding of the roles and responsibilities of the teacher of reading, Reading Specialist, and Literary Coach. Emphasis on the nature of specific reading difficulties, distinguishing reading difficulty/ disability from language difference, becoming familiar with a range of tools for assessing reading skills and strategies, and developing a critical orientation for evaluating the purpose and utility of various literacy assessment tools. Teachers will use informal and formal literacy assessment tools to guide instructional planning for children in the UMSL Reading Center.

ELE ED 6688 Literacy Assessment To Guide Instruction: 3 semester hours

Prerequisites: ED REM 6707, ED REM 6709, or ED REM 6716 and ELE ED 668.6 Designed to apply teacher knowledge of the roles and responsibilities of the teacher of reading, Reading Specialist and Literary Coach. Emphasis on using literacy assessment tools and techniques to guide instruction for a range of children, especially in the areas of writing, comprehension, and vocabulary. Teachers will use informal and formal literacy assessment tools to guide instructional planning for children in the UMSL Reading Center.

Middle Education Courses

MID ED 4246 Teaching Mathematics In The Middle School: 3 semester hours

Prerequisites: level 1 and Level 2 and completion of mathematics area of concentration A study of the middle school math curriculum with state standards and appropriate instructional strategies, materials, and assessments.

MID ED 4253 Teaching Social Studies In The Middle School: 3 semester hours

Prerequisites: Completion of level 1 and level 2 courses. Study of middle school social studies emphasizing current social studies curricular content, methods of teaching, and instructional materials. If taken concurrently with internship, field hours will be combined within the internship experience. If this course is taken separately, middle school based field experiences are required in addition to scheduled course time.

MID ED 4315 The Middle Level School: 3 semester hours

Prerequisites: level 1 and admission to teacher education program An in-depth study of the philosophical and historical basis of the goals and organization of middle level schools, including a reveiw of research as the basis for current trends and practices.

MID ED 4316 Middle Level Curriculum And Instruction: 3 semester hours

Prerequisites: Completion of Level 1 and MID ED 4315. Preparation for teaching and learning in a middle school, grades 5-9. Content focuses on curriculum development, methods, techniques, materials, planning, organization, and assessment in middle level education for early adolescents.

MID ED 4317 The Middle-Level Child: 3 semester hours

Prerequisites: Completion of level 2. Developmental characteristics and needs of early adolescents are studied through field experience in middle school classrooms. The relationship between needs and behavior is explored and skills for effective student teacher relationships are highlighted. This course to be taken concurrently with MidEd 4989.

MID ED 4350 Teaching Science In The Middle School: 3 semester hours

Prerequisites: Level I and Level 2 or equivalent preparation. Students will analyze both methodology and content, apply appropriate teaching and learning strategies, and become acquainted with technological advances in teaching science. Students will use informal and formal assessment as well as design and implement original science activities and instruction for all areas of science. If taken concurrently with internship, field hours will be combined within the internship experience. If this course is taken separately, then middle school based field experiences are required in addition to scheduled course time.

MID ED 4989 Practicum I: Middle LEvel Education Site Based Experience: 3 semester hours

Prerequisites: Level I and Level II requirementsBulletin description: This course is an intensive professional development experience (2 days per week) working in grades 6-8 settings with students. Activities on site include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Particular emphasis will be given to impacting students achievement for diverse populations and differentiated instruction. Level III methods course assignments will be completed during the practicum day at school sites and Practicum I experiences inform Level III coursework. Practicum I is taken in the semester immediately preceeding Practicum II. Not available for graduate credit.

MID ED 4990 Practicum II: Middle Level Education Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in MID ED 4989 and admission to Teacher Education Program. Clinical teaching experiences, 4 days per week where placements occur in grades 6-8 school settings in the subject area of certification. Not available for graduate credit.

Special Education Courses

SPEC ED 3318 Inclusive Classrooms: 3 semester hours

Prerequisites: Completion of Level I courses. This class is an introductory overview of inclusive education, the characteristics of special populations in diverse classrooms, and issues related to compliance with state and federal law in serving students with varying needs. In addition, Individualized Education Plans (IEPs) and the eligibility process will be emphasized. Applicable strategies for the successful inclusion of all students that enhance collaboration among relevant stakeholders will be provided.

SPEC ED 3345 Cross Categorical Special Education I: 3 semester hours

Prerequisites: TCH ED 3313 and Admission to the Teacher Ed Program. Study of characteristics of students with cross categorical disabilities and other pertinent issues including inclusion, assessment, and evaluation practices.

SPEC ED 3346 Literacy Assessment and Reading for Students with Special Needs: 3 semester hours

Prerequisites: Admission to the Teacher Education Program, completion of all Level II education courses. Must be taken during the same semester as SPEC ED 4989. Examination of current research and issues specific to educating students with disabilities in the area of reading. Topics include historical and contemporary perspectives on reading instruction and assessment, and implementation of evidence-based practice to improve phonological awareness, decoding, word recognition, fluency, comprehension, and vocabulary. Written language will also be addressed as it pertains to reading instruction.

SPEC ED 3349 Cross Categorical Special Education II: 3-6 semester hours

Prerequisites: Admission to the Teacher Education Program, completion of all Level II education courses. Study of research-based instructional and behavior management methods for use with students with cross-categorical disabilities. Students seeking special education teacher certification must take this during the same semester as SPEC ED 4989, Special Education Professional Internship.

SPEC ED 4301 Special Education Orientation: 2 semester hours
Prerequisites: Admission to Special Education Transition Program or
consent of instructor This course examines characteristics of students
in crosscategorical placements. Examination of special education
philosophy, historical and legal issues, specail education process, and
personal traits.

SPEC ED 4315 Speech And Language Of Exceptional Children: 3 semester hours

Prerequisites: SPEC ED 3318 and Admission to the Teacher Education Program. Study of speech and language development for students with exceptional needs and the techniques employed by classroom teachers to support their learning. Not available for graduate credit.

SPEC ED 4320 Classroom Management: 3 semester hours

Same as ECH ED 4320, ELE ED 4320, SEC ED 4320. Prerequisites: Level I and II courses or consent of instructor. Understanding classroom management as the development of engaging instruction that establishes healthy and culturally appropriate teacher-student relationships, builds successful classroom community and enhances student learning. Participants develop a culturally relevant classroom management plan that includes rules, procedures, expected behaviors and uses problem solving strategies to resolve behavior problems. Emphasis is on the teacher developing the social competence of Pre K-12 students within culturally diverse classrooms and engaging families in supportive interactions.

SPEC ED 4323 Classroom Management and Positive Behavioral Supports in Inclusive Educational Settings: 3 semester hours

Prerequisites: Completion of Level I and Level II courses. This course establishes healthy and culturally appropriate teacher-student relationships that build successful classroom community and enhance student learning. Teacher candidates develop a culturally appropriate classroom management plan that includes rules, procedures, and expected behaviors and uses problem-solving strategies to resolve behavior problems. In addition, teacher candidates will develop skills to assess, design and implement extensive, individualized, positive behavioral supports. Emphasis is on the candidates developing the social competence of PreK-12 students within diverse inclusive classrooms and engaging families in supportive interactions. Not available for Graduate Credit.

SPEC ED 4325 Behavior Management: 3 semester hours

Prerequisites: Admission to the Teacher Education Program, completion of all Level II Education courses. Study of classroom management and applied behavior analysis strategies. Focus on teacher as decision maker in the design, implementation, and evaluation of individual and group management programs with emphasis on functional assessment and positive behavior support.

SPEC ED 4342 Transition Issues And Planning: 3 semester hours
Prerequisites: RCH ED 3313 and Admission to the Teacher Education
Program. This course provides information to teachers and human
service professionals who work closely with adolescents and young adults
with disabilities. Emphasis is placed on understanding and planning
for the transition from school to adult life for students with disabilities.
Transition outcomes include employment, residential options, and other
developmental concerns. Topics include self-determination, career
education and planning, interagency collaboration, vocational and
residential issues and resources, and family support and involvement.

SPEC ED 4989 Special Education Professional Internship: 3 semester hours

Prerequisites: Level I & Level II requirements and ELE ED 4989 This course is an intensive professional development experience (9 hours per week for 14 weeks) working in a school setting with students with disabilities. Activities on site include assisting the classroom teacher in all areas of instruction, assessment, and classroom management. This course is to be taken during the semester immediately preceding student teaching. This course is to be taken in conjunction with SPEC ED 3349. Assignments from this course are carried out in the Internship, and Internship experiences inform the activities and discussions in this course. Not available for graduate credit.

SPEC ED 4990 Special Education Student Teaching I: 6 semester hours

Prerequisites: Completion of Level I, II & III coursework. Must enroll in both SPEC ED 4990 and SPEC ED 4991. Clinical teaching experience in elementary level special education program under university and school supervision. Required of all special education majors; must be taken during the same semester as SPC ED 4991. Not available for graduate credit.

SPEC ED 4991 Practicum II: Special Education Site Based Experience: 12 semester hours

Prerequisites: Grade of C or higher in SPEC ED 4989 and admission to the Teacher Education Program. Clinical teaching experiences 4 days per week where placements occur in K0-12 school settings. Required for all majors in Special Education. Not available for graduate credit.

SPEC ED 5303 Instructional Practices: 3 semester hours

Prerequisites: SPEC ED 4301 or consent of instructor This course provies an in-depth examination of methods and techniques for use in the education of students in crosscategorical placements.

SPEC ED 5305 Planning And Managing The Teaching And Learning Environment: 3 semester hours

Prerequisites: SPEC ED 4303 or consent of instructor This course provides an in-depth exploration of various behavior management techniques that are particularly applicable for students in cross-categorical placements. Projects on functional behavioral assessment and behavior support plans will be conducted.

SPEC ED 6315 Understnding/Implmnting Speech & Lang Interventions that Assist Chldrn w/ Sp Needs: 3 semester hours

Prerequisites: Graduate Standing. Study of speech and language development for students with exceptional needs and the techniques employed by classroom teachers to support their learning.

SPEC ED 6325 Advanced Studies in Classroom & Behavior Management: 3 semester hours

Prerequisite: Graduate Standing. Advanced study of classroom management and applied behavior analysis strategies. Focus on teacher as decision maker in the design, implementation, and evaluation of individual and group management programs with emphasis on functional assessment and positive behavior support.

SPEC ED 6345 Characteristics and Education of Students with High-Incidence Disabilities: 3 semester hours

Prerequisites: TCH ED 3313 or an equivalent course in psychology of the exceptional child. Advanced study of characteristics of students with high-incidence and cross categorical disabilities and other pertinent issues including inclusion, assessment, and evaluation practices.

SPEC ED 6346 Reading Instruction and Intervention in Special Education: 3 semester hours

Prerequisites: Graduate Standing. This course examines current research and issues specific to educating students with disabilities in the area of reading. Topics will include historical and contemporary perspectives on reading instruction and assessment, and implementation of evidence-based practice to improve phonological awareness, decoding, word recognition, fluency, comprehension, and vocabulary. Written language will also be addressed as it pertains to reading instruction. (No credit earned if credit previously earned from SPEC ED 3346).

SPEC ED 6372 Screening And Diagnosis Of Developmental Delays: Birth To 5 Years: 3 semester hours

Prerequisite: ED REM 3721 This course addresses the content, techniques, and special problems related to the assessment of children at risk for developmental delays in the birth to five year age range. Students gain experience in construction, administration and interpretation of assessment tools used with young children. Required for certification in severe handicaps and early childhood-special education.

SPEC ED 6412 Psychology Of Exceptional Children: 3 semester hours

An in-depth analysis of the unique psychological problems of exceptional children and youth. Current psychological theories and research emphasized.

SPEC ED 6415 The Law And Special Education: 3 semester hours

Prerequisite: Graduate Standing. Special education is governed by an elaborate and extensive body of statutes, regulations, and court decisions. This course will focus on the requirements, history, and evolution of laws impacting special education services; current legal requirements in providing a free appropriate public education (FAPE) to students with disabilities and the procedures to obtain legal information in law libraries and on the Internet; and how to conduct legal research using a variety of sources.

SPEC ED 6416 Current Research In Psychology Of Learners With Disabilities: 3 semester hours

Prerequisites: Permission of the instructor/adviser. Study of current trends, issues, and research in special education. Areas of investigation focus on major developments in disabilities, situations related to programming for projected needs, and consideration and utilization of investigative techniques with learners with disabilities. Students should have experience or undergraduate background in the education of learners with disabilities prior to enrolling in this course.

SPEC ED 6430 Characteristics and Education of Individuals with Low-Incidence Disabilities: 3 semester hours

Prerequisites: TCH ED 3313 or equivalent course in psychology of the exceptional child; graduate standing. An advanced study of the theoretical and methodological problems related to autism and developmental (low-incidence) disabilities. Particular emphasis on the application of current research findings to issues confronting individuals with autism and developmental disabilities, and family-and community-systems dynamics. Required course for concentration area: Autism and Development Disabilities.

SPEC ED 6437 Individual and Schoolwide Systems of Positive Behavior Support: 3 semester hours

Prerequisites: Graduate Standing. Focus on the design of comprehensive, multicomponent behavior support plans for individuals with disabilities who engage in challenging behaviors. Emphasis on simultaneously teaching social behavior and building supportive environments that improve targeted social skills. Based upon research foundations and current developments in maintaining primary (school-wide), secondary (classroom and targeted group), and tertiary (individual) systems of support, skills taught increase the capacity of schools, communities, and families to enjoy improved lifestyles.

SPEC ED 6440 Disability, Schooling And Culture: 3 semester hours

Prerequisites: TCH ED 3313 or equivalent An advanced course that will examine foundational issues in social and educational policy for students with disabilities. The course explores the historical, philosophical, sociological and economic dimensions of the recent emphasis on inclusive and community-based support systems for individuals with disabilities and their families. The course will review recent research and experience in the U.S. (primarily) concerning the evolving roles and relationships of families, teachers, administrators, and students with and without disabilities in disabilities in increasingly diverse schools and communities.

SPEC ED 6443 Characteristics and Education of Students with Learning Disabilities: 3 semester hours

Prerequisites: TCH ED 3313 or an equivalent course in psychology of exceptional children; graduate standing. Advanced study of the theoretical and methodological problems related to learning disabilities. Particular emphasis on the application of current research findings to the problems confronting learners with learning disabilities.

SPEC ED 6450 Characteristics and Education of Students with Emotional/Behavioral Disorders: 3 semester hours

Prerequisites: TCH ED 3313 or an equivalent course in psychology of exceptional children; graduate standing. Advanced study of the problems and characteristics of learners with emotional/behavioral disorders. Particular emphasis on the application of current research findings to problems confronting learners with emotional/behavioral disorders.

SPEC ED 6462 Introduction To Early Childhood Special Education: 3 semester hours

Prerequisites: SPC ED 3313 or equivalent Study of issues and concepts central to special education of young children with disabilities, and at-risk for disabilities, and their families. Focus on program models, screening and assessment procedures, and curriculum concepts. An ecological perspective is emphasized.

SPEC ED 6463 Curriculum, Methods, And Materials For Early Childhood Special Ed: 3 semester hours

Prerequisites: SPC ED 6462 In-depth study of integrated assessment-based curriculum development for learners in early childhood special education. Emphasis on individualized educational planning and implementation for learners and their families.

SPEC ED 6492 Practicum In Special Education: 3-6 semester hours

Prerequisites: Two courses in the area of concentration (developmental disabilities, early childhood special education, emotional/behavioral disorders, or learning disabilities). Supervised experience in the education of learners with disabilities in a school or other appropriate setting.

SPEC ED 6497 Problems: 1-10 semester hours

Prerequisites: SPC ED 3313 or equivalent and consent of instructor Investigation of a selected problem related to the education of learners with disabilities. To be conducted under the direction of a graduate faculty member.

SPEC ED 6510 History Of Disability And Special Education: 3 semester hours

Prerequisite: Consent of Instructor. Provides a historical context for approaching contemporary issues in the education and support of people with disabilities and their families. Requires students to become familiar with methods of retrieval and analysis of historical material.

SPEC ED 6610 Foundations of Autism Spectrum Disorder: Research to Practice: 3 semester hours

Prerequisites: Teaching Certificate or Consent of Instructor. The course focuses on characteristics of children and youth with autism spectrum disorders (ASD); trends and issues connected with ASD; and effective practices and strategies for structuring, managing, and promoting functional/behavioral skills development and interaction among children and youth with ASD.

SPEC ED 6620 Assessment and Interventions for Children and Youth with Autism Spectrum Disorder: 3 semester hours

Prerequisites: SPEC ED 6610; Teaching Certificate or Consent of Instructor. The course reviews functions of behavior as a foundation for understanding and completing functional behavior assessments; entails interpreting and graphing collected data; and incorporates intervention practice and applied curriculum modifications.

SPEC ED 6630 Principles of Applied Behavior Analysis: 3 semester hours

Prerequisites: Graduate Standing. Provides a detailed look at the theories, philosophy, and principles of applied behavior analysis. Focus is on applying these principles to assess behavior and develop and implement best practice interventions for reducing problem behaviors and teaching new behaviors to individuals with autism and other developmental disabilities in a variety of settings. Partially meets requirements of national Board Certified Behavior Analyst licensure exam preparation.

SPEC ED 6650 Practicum I in Applied Behavior Analysis: 3 semester hours

Prerequisites: SPEC ED 6630. Provides the opportunity for students to practically apply the principles and standards of ABA in applied settings. Focus is on students actively demonstrating skills in the areas of behavior assessment, behavior intervention development, and implementation, consultation, on-going evaluation, and training others in a variety of settings with a variety of clients. Access to field site required. Partially meets requirements of National Board Certified Behavior Analyst licensure exam preparation.

SPEC ED 6660 Advanced Applications of Applied Behavior Analysis: 3 semester hours

Prerequisites: SPEC ED 6630 and SPEC ED 6650. Provides a detailed look at methods of data collection, teaching new skills, and evaluating teaching strategies. Focus is on applying these methods to develop and implement best practice strategies that teach new behaviors to individuals with autism and other developmental disabilities, and evaluating the efficacy of these methods. Partially meets requirements of national Board Certified Behavior Analyst licensure exam preparation.

SPEC ED 6670 Practicum II in Applied Behavior Analysis: 3 semester hours

Prerequisites: SPEC ED 6630, SPEC ED 6650, and SPEC ED 6660. Provides the opportunity for students to practically apply the principles and standards of ABA in applied settings. Focus is on students actively demonstrating skills in the areas of behavior assessment, behavior intervention development, and implementation, consultation, ongoing evaluation, and training others in a variety of settings with a variety of clients. Access to field site required. Partially meets requirements of national Board Certified Behavior Analyst licensure exam preparation.

Teacher Education Courses

TCH ED 2209 Foundations of Teaching in American Schools: 3 semester hours

Explores the multiple roles and functions of professional teaching including: communication, leadership, management skills, use of technology, identification of needs of diverse populations and an examination of other selected concepts and philosophies underlying American public education. Portfolio preparation will be introduced. A minimum of 15 field experience hours required.

TCH ED 2210 Introduction To Teaching: 3 semester hours

Explores the multiple roles and functions of professional teaching including: communication, leadership, management skills, use of technology, and identification of needs of diverse populations. Portfolio preparation will be introduced. A minimum of 15 field experience hours required.

TCH ED 2211 Introduction To American Schools: 3 semester hours

One of three introductory, prerequisite courses to the Teacher Education program. An examination of selected concepts and principles underlying American public education. A minimum of 4 field experience hours required.

TCH ED 2311 Foundations In Urban Education And Social Justice: 3 semester hours

Prerequisites: Enrollment in the Minor in Urban Education or permission of the instructor. An introductory course that examines the concepts and principles underlying American public education with specific attention to urban school systems. Issues of equity and social justice in public education are analyzed from multiple perspectives.

TCH ED 3100 Education for Social & Civic Responsibility: 3 semester hours

Equips students with the knowledge and skills needed to integrate an emphasis on civic and social responsibility, including social justice, into their own teaching. Includes a service learning project and requires reflection on project and in-class experiences, course readings, and personal and professional goals and development.

TCH ED 3210 Generl Linguistics in Tchg English to Speakers of Other Languages: 3 semester hours

Prerequisites: Completion of Level I An introduction to the historical, legal and pedagogical frameworks relating to Teaching English to Speakers of Other Languages (TESOL), and bilingualism. Students explore principles of language systems including English and the function of language in social and academic settings.

TCH ED 3211 Basic Principles of Second and Foreign Language Acquisition: 3 semester hours

Prerequisites: TCH ED 3210. Covers the principles of language acquisition and the factors which influence learning. Students investigate first and second language acquisition processes including socio-cultural and cognitive factors in relation to second language acquisition (SLA). The course analyzes phonology, morphology, syntax, semantics, and discourse, within a communicative framework, which directly relates to instructional strategies.

TCH ED 3212 Sociolinguistics and communication in the Classroom: 3 semester hours

Prerequisites: TECH ED 3210. Students explore the impact of culture and society on verbal and non-verbal communication, learning styles, and second language acquisition. The course introduces concepts relating to the acculturation process, cross-cultural and intracultural communication. Students develop strategies to enhance home, school and community relations and impact of culture on perceptions, communication, behaviors, and learning.

TCH ED 3213 Performance-based Assessment for TOSOL: 3 semester hours

Prerequisite: TCH ED 3210. By exploring the role of assessment in culturally and linguistically diverse classrooms, this course provides an overview of identifying and placing students at the district and school level. Formal and informal models of assessment are examined as students reflect on the administration and interpretation of equitable measurement strategies and how assessment can reinforce instruction.

TCH ED 3214 Material Development and Methods for TESOL: 3 semester hours

Prerequisites: TCH ED 3210, TCH ED 3211, TCH ED 3212, TCH ED 3213, and TCH ED 4391. Students integrate knowledge of second language acquistion research in instructional methodologies in this course. Students will also incorporate theories of linguistics, assessment models, and instructional technology into their material development to meet the needs of diverse English language learners.

TCH ED 3215 Field Experiences in TESOL: 3 semester hours

Prerequisites: Tch Ed 3210, Tch Ed 3212, and Tch Ed 3214 or concurrently taking Tch Ed 3214. Students observe and reflect on actual classroom practices as well as complete a student's needs analysis and placement tests. The students implement the strategies for advocating an collaborating on behalf of students from diverse language backgrounds. This is a supervised field experience.

TCH ED 3310 Introduction To Instructional Methods: 3 semester hours

Prerequisite: TCH ED 2209, TCH ED 2212, or equivalent and admission to Teacher Education Program. Skill development in planning instruction, selecting content, use of various teaching methods, designing assessment, and developing classroom climate and management strategies. Participation in professional development including microteaching, using educational technology, and portfolio development.

TCH ED 3313 Psychology of the Exceptional Child: 3 semester hoursPrerequisites: level I or equivalent. Introductory overview of the field of special education including historical developments, characteristics of special populations, and compliance with state and federal regulations.

TCH ED 3315 Literacy Learning And Instruction: 3 semester hours
Prerequisites: Admission to Teacher Education program. May take
concurrently with TCH ED 3312 and TCH ED3313 or equivalents; may not
be taken before TCH ED 3312 and TCH ED 3313 or equivalents. Analysis
of methods, materials, frameworks, and technology for the effective
teaching of literacy to young children, children with special needs, and
children in PreK-6 education settings. Emphasis on the role of language
experience, phonics, semantics, syntactics, pragmatics, schema theory,
and metacognition in literacy development, A total of 20 field experience
hours including observation, assessing children's literacy interests and
development, and teaching lessons in a school classroom setting are
required in addition to scheduled course time. This course may be applied
toward a Literacy Minor.

TCH ED 3316 The Professional Portfolio: 1 semester hour

Prerequisites: Junior standing or consent of instructor Students learn the knowledge and skills to develop an electronic teaching portfolio, writing reflective rationales for standards and choosing appropriate artifacts and using technology tools for successful presentation.

TCH ED 3320 Home, School And Community Relations For The Classroom Teacher: 3 semester hours

Exploration and discussion of common communication strategies used by teachers in the classroom. Topics covered include a review of grammar, punctuation, and spelling; development of paragraphs, memos, letters reports, and newsletters; and effective oral communication with peer, supervisors, volunteers, assistants, and parents. Students will work to develop intercultural competence through communication. Students will also use technology to prepare effective communication materials.

TCH ED 4391 Literacy for Adolescent Learners in Content Areas: 3 semester hours

Prerequisites: Admission to the Teacher Education Program. Examines the teaching of multiple literacies including reading, writing, speaking and critical thinking in the content areas. Implications of diverse cultures and languages and their relationship to reading will be explored. Field experience hours are required in addition to scheduled course time.

TCH ED 4988 Teaching and Learning in Urban Schools: 3 semester hours

Prerequisites: Enrollment in the Minor in Urban Education or permission of the instructor. The capstone course for the Minor in Urban Education. Students design and implement a classroom-based, action research project in an urban school that integrates differentiated instruction, culturally relevant and sensitive teaching strategies, assessing children's learning to meet individual needs, and implementing inquiry-based projects.

TCH ED 5310 Instructional Design: 3 semester hours

Prerequisites: Graduate standing, TCH ED 5311, participation in an initial teacher preparation program, & consent of instructor Skill development in planning teaching units, instructing lessons, selecting content, using various teaching methods, designing assessment, developing classroom climate and in management strategies. Professional skills are developed through reflecting on one's own practice, using educational technology, and developing a professional portfolio.

TCH ED 5311 Foundations Of Education: 4 semester hours

Prerequisite: Acceptance into the post-baccalaureate teacher education certification program Investigation into the history, philosophies, and purposes of public schools and the multiple roles played by professional educators. Emphasis will be on the history of public education, the role of the teacher as change agent, the influence of technology, and the impact of diversity of American classrooms.

TCH ED 5312 Differentiated Instruction: 4 semester hours

Prerequisites: Graduate Standing. Explores differentiated instruction as an approach to meeting the diverse instructional needs of all students in the classroom. Differentiated instruction can be used to enhance literacy developments of adolescent learners in functional literacy, content literacy, technological literacy and creative/innovative literacy. Twenty hours of field experience are required in addition to scheduled course time.

TCH ED 5850 Topics In The Teaching Of Writing: 1-3 semester hours Same as ENGL 4850. Prerequisite: ENGL 3100 or equivalent.

TCH ED 6010 Examining History, Community And Social Justice In Education: 3 semester hours

Addresses the issues of equity and social justice from the context of personal and educational history. Students will develop a cultural understanding of their own previous school, community and family experiences and generalize those findings to their current work as educators. They will develop an understanding of the historical foundations of American education and the role of the teacher to be a catalyst for change. Curriculum, instruction and learning will be examined through a variety of lenses including race, class, gender, ability, sexual orientation and religion to become culturally responsive teachers.

TCH ED 6020 Teacher Action, Advocacy And Leadership: 3 semester hours

Investigates the relationships among students, general and special education teachers, counselors, principals, parents, and other support and specialist personnel typically present in schools in Missouri and the changing roles of all these individuals as a consequence of general and special education reform initiatives. Develop systemic action plans and become advocates and leaders whthin the school and larger community for children, families, and the profession. Assists teachers to analyze and improve their management, planning and record keeping systems and professional development planning.

TCH ED 6115 Historical Thinking in Theory and Practice I: 3 semester hours

Same as HIST 6115. Prerequisites: Graduate Standing or consent of instructor. This course explores theoretical and research literature on historical thinking. It further examines effective teaching strategies and curriculum materials that facilitate historical thinking and reading skills while also broadening content knowledge. It will familiarize students with text and web-based resources available for instruction.

TCH ED 6116 Historical Thinking in Theory and Practice II: 3 semester hours

Same as HIST 6116. Prerequisites: HIST 6115 / TCH ED 6115 or consent of instructor. Building upon HIST 6115/ TCH ED 6115, this course emphasizes the design, implementation, and assessment of teaching materials and practices that foster historical thinking and reading. In this hands-on, action research course, students will focus on their own teaching materials and practices to improve their capacity to teach and assess students' historical thinking.

TCH ED 6200 Building Character and Competence with Diverse Learners: 4 semester hours

Prerequisites: Graduate Standing. This course introduces theories and offers research-based strategies, materials, and resources designed to meet the needs of diverse learners in elementary school settings, including those with special needs and English language learners. Students will also learn ways to promote character and citizenship development, crosscultural communication, and positive behavior supports.

TCH ED 6210 Foundations Of Teaching English To Speakers Of Other Languages: 3 semester hours

Prerequisites: Graduate Standing This course is an introduction to the historical, legal and pedagogical frameworks relating to Teaching English to speakers of Other Languages (TESOL) and bilingualism. Students explore current issues, trends and influential factors in second language acquisition (SLA) instructional and assessment models.

TCH ED 6220 Principles Of Second/Foreign Language Acquisition: 3 semester hours

Prerequisite: TCH ED 6210. This course is a research-based study of language acquisition and the factors which influence learning. Students investigate first and second language acquisition processes including socio-cultural and cognitive factors, as well as linguistic research about second language acquisition (SLA). The course analyzes phonology, morphology, syntax, semantics and discourse, within a communicative framework, which directly relates to instructional strategies.

TCH ED 6230 Cross-Cultural Communication In The Classroom: 3 semester hours

Prerequisite: TCH ED 6210. Students explore the impact of culture and society on verbal and non-verbal communication, learning styles, and second language acquisition. The course introduces concepts relating to the acculturation process, cross-cultural and intra-cultural communication. Within this theoretical context, students recognize their own socio-cultural identity and its impact on teaching models. Students develop strategies to enhance home, school and community relations.

TCH ED 6240 Assessment for Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6210 and TCH ED 6220 are recommended. By exploring the role of assessment in culturally and linguistically diverse classrooms, this course provides an overview of identifying and placing students at the district and school level. Formal and informal models of assessment are examined as students reflect on the administration and interpretation of equitable measurement strategies and how assessment can inform instruction.

TCH ED 6250 Methods and Materials for Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6220, TCH ED 6230, and TCH ED 6240, or consent from instructor. Students integrate knowledge of second language acquisition research in instructional methodologies, linguistics, assessment models, and awareness of socio-cultural dynamics, in order to design and critique a unit plan including materials and needed technology support.

TCH ED 6260 Practicum in Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6220, TCH ED 6230, TCH ED 6240, and TCH ED 6250 or concurrently taking TCH ED 6250. Students observe and reflect on actual classroom practices, complete a student's needs analysis and placement test, and implement a unit plan in the classroom with reflection. This is a supervised field experience.

TCH ED 6350 Gender, Language & Identity: 3 semester hours

Same as GS 6350. Prerequisites: Graduate level standing. An interdisciplinary look at the ways gendered and racial identities are developed and shaped through language and culture. Readings will address the complex, yet sometimes invisible, ways that identity, language and gender intersect, creating and assigning roles, responsibilities, and possible selves to individuals and groups in a global world.

TCH ED 6440 Experiential Education: 3 semester hours

Prerequisites: TCH ED 6010 This course addresses facets of experiential learning beginning with the theoretical background. Reflection will be examined as a key component of the experiential learning cycle and reflective questioning techniques developed and practiced. Adventure education, cultural journalism, apprenticeship education and related areas will be investigated as approaches to experiential learning. Students will develop an understanding of the relationship between experience and learning and develop techniques for using that relationship to enhance learning in their own teaching situation.

TCH ED 6442 Outdoor Education Leadership: 3 semester hours

Prerequisite: TCH ED 6010 or permission of instructor. Explore concept of a bioregion and development of a sense of place using historic journals, land based essays, outdoor activities, research, discussion and personal reflection. Planning, teambuilding, outdoor leadership skills, regional ecology and culture will be addressed. A 3 day field experience will explore stream, canyon, forest, and cave ecosystems in cooperation with resource professionals. Cultural ad economic folkways of the region will be considered.

TCH ED 6444 Environmental Education: 3 semester hours

Activity-oriented coursework in developing environmental awareness, field and/or laboratory skills and techniques, and the use of environmental curricula. Materials and activities appropriate for a variety of educational settings, including outdoor locales, will be developed. This course is designed to give educators experience in developing and implementing environmental education curricula, especially in an outdoor setting.

TCH ED 6880 Gateway Writing Project: 3-6 semester hours

Same as ENGL 6880. An intensive course in the writing process and the writing curriculum, designed for experienced teachers. Readings of current theory and research will be related to participants' experience as writers and as teachers. Topics may vary. may be repeated for credit. No more than 6 hours may be applied toward the M.Ed. Counts toward the Graduate Certificate in Teaching Writing.

TCH ED 6890 Seminar In Professional Writing For Teachers: 3 semester hours

Prerequisites: TCH ED 6880 / ENGL 5880 and near completion of Graduate Certificate in the Teaching of Writing. Capstone seminar for the Graduate Certificate in the Teaching of Writing. Participants will pursue the dual role of writer/ writing teacher by designing individual projects with one of these emphases: (1) research writing based on a classroom inquiry into the teaching of writing; (2) expository and creative writing based on an inquiry into the teacher's own evolution as a writer. Seminar meetings will include both face-toface and on-line communication.

TCH ED 6909 Teacher Action Research I: 3 semester hours

Prerequisites: Graduate Standing Minimal of 21 hours of M.Ed coursework completed. Students learn the knowledge, skills and tools for systematic reflective practice in preparation for completing the Masters Capstone Action Research project in TCH ED 6910.

TCH ED 6910 Teacher Action Research Capstone: 3 semester hours
Prerequisites: TCH ED 6909 for teachers and all but the last 6 hours of
the M.Ed. program or TCH ED 6909 or ED REM 6040 for non teachers.
Students apply research knowledge, skills, and dispositions developed in
TCH ED 6909 to an Action Research project, reflecting on and evaluating
an aspect of one's own practice within a situated context. Students identify
focused questions, collect and analyze data, using both analytic and
practice tools, and review literature to research multiple factors in order
to improve student learning. The research findings and insights will be
shared in a public forum as a capstone for the M.Ed.

TCH ED 7100 Research in Literacy Studies: 3 semester hours

Prerequisites: Admission to the doctoral program. Participants will critically examine foundational, theoretical and historical work in the intersection of language, literacy and culture. An analysis of seminal research will explore related traditions and contemporary theories in literacy (K-12).

TCH ED 7200 Historical and Theoretical Foundations of Curriculum and Instruction: 3 semester hours

Prerequisites: Admission to the doctoral program. Examines foundational, theoretical and historical work in the field of Curriculum and Instruction. Students will read and analyze key texts, engage in discussions with peers and divisional faculty, build coherent and well-informed arguments, and apply new understandings to problems of practice.

TCH ED 7210 Issues And Trends in Content and Language Acquisition for English Language Learners: 3 semester hours

Prerequisites: Doctoral Standing. Analysis of current issues on simultaneous development of academic content and English language learning. Current trends in teaching English to Speakers of Other Languages (TESOL) include Sheltered Instruction Observation Protocol (SIOP), Teaching and Learning Cycle, Teaching Proficiency through Reading and Story Telling (TPRS), and English as an international language. Students will identify an area of inquiry, and design and complete a research project.

Educational Leadership and Policy Studies

General Information

The Department of Educational Leadership and Policy Studies (ELAPS) faculty is housed on the second floor of Marillac Hall. Questions about the department and its offerings may be directed to the department office, 269 Marillac Hall (314) 516-5944.

Graduate Studies

The ELAPS Department offers graduate programs in:

- K-12 Administration: including Missouri State School Administrator Certifications
- Higher Education: including Community College
- · Adult and Community Education
- K-12 School Administration

Includes academic degree programs at the master's (M.Ed.), specialist (Ed.S.), and doctoral (Ed.D. and Ph.D.) levels. These programs are consistent with the academic requirements for Missouri State certification for elementary, middle, and secondary school administration as well as school superintendent and special education administration. The programs are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the Missouri Department of Elementary and Secondary Education (DESE).

The programs in K-12 school administration are not merely a list of courses. The M.Ed. and Ed.S. degree programs are organized into a continuous two-phase academic/practice experience. In the first phase the students earn the M.Ed. degree and meet the academic requirements for the initial Missouri State elementary and secondary school administrator's certificates. The second phase leads to the Ed.S., concentrating more on the relationship of academics to practical schooling experiences and solution to school-based problems. With proper selection of courses in the Ed.S. phase, students can meet most of the academic requirements for the Missouri school superintendent's certificate. Please see your advisor for specifics regarding the superintendent certification.

Reciprocity is an agreement that allows an educator who is certified in one state to transfer his or her certification and teach in a different state.

Nearly all states now have some type of reciprocity policy in place. If you are interested UMSL's degree programs and then becoming certified in another state, consult that state for their current rules on reciprocity.

Education Specialist (Ed.S.) in Education Administration

The Education Specialist Degree (Ed.S.) in Education Administration is a logical extension of the UMSL M.Ed. in Education Administration and is designed to prepare administrators to serve in school settings from Kindergarten to grade twelve and central office administration. The Ed.S. in Education Administration requires at least sixty (60) graduate credit hours of a planned program and may include no more than thirty-six (36) credit hours of an approved NCATE accredited master's degree. One-half (15 credit hours) must be completed within the COE after being admitted to the Ed.S. program. As constituted, the minimum course requirements for the Ed.S. in Education Administration collaterally meets the academic standards for both Elementary and Secondary career continuous school administrator certification in Missouri. To be recommended for the Missouri School Superintendent certificate, students must complete at least a minimum of six (6) additional hours, depending on the courses taken for the Ed.S., for a total of sixty-six (66) hours above the baccalaureate.

Admission Standards

To be admitted to the Ed.S. in Education Administration program students must meet the following criteria:

- 1. Be admitted without qualification to the UMSL Graduate School;
- 3. Have a graduate grade point average of at least 3.25 on a scale of 4.00.
- 4. Have on file at least three (3) recommendations including the following: one (1) from an educator presently occupying a position equal or similar to that which the applicant aspires upon completing the Ed.S., one (1) from a university professors with direct knowledge of the applicant's graduate degree work, and one (1) from someone other than a member of the applicant's family who can comment on the applicant's character.
- Students already possessing a master's degree from an NCATE accredited institution may transfer those credit hours into the Ed.S. degree program; however, at least twenty-four (24) credit hours must be completed after acceptance into the program.

Degree Program

There are three (3) phases to this degree program. Phase 1.00 must be completed by students not possessing a UMSL M.Ed. in Education Administration and those wanting to transfer appropriate grade courses from other NCATE institutions. Phase 2.00 applies to those students meeting all of the requirements in Phase 1.00. There are two (2) sections to Phase 2.00--- Section 2.10 Technical Aspects of Education Administration and Section 2.20 Human Aspects of Education Administration. Courses in these two sections may be taken simultaneously. There are two (2) sections to Phase 3.00--- Section 3.10 Writing Exit Requirements and Section 3.20 Examination Exit Requirements. Both sections must be completed no sooner than one (1) semester before completing all degree requirements. Students seeking the superintendent certification must complete ten (10 specifically required courses.

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Phase 1.00 Elementary and Secondary School **Education Emphases**

1.10 Contexts Core:

Total Hours		36
ED ADM 6900 (p. 358)	Internship (3 credit hours) ²	
SPEC ED 6415 (p. 358)	The Law And Special Education	
(p. 358)	School Staff Development And Supervision	
(p. 358)	Secondary School Administration	
	y School Administration:	
(p. 358)	Internship (3 credit hours) ²	
ELE ED 6411 (p. 358)	Elementary Programs	
ED ADM 6401 (p. 358)	School Staff Development And Supervision	
ED ADM 6302 (p. 358)	Elementary School Administration	
1.31 Elementa	ry School Administration:	
Select 1.31 or 1.3.		12
358) 1.30 School Spec	ŭ	J
358)	Education Administration Policy Research ² Organizational Change In Education	3
358)	Classroom Measurement And Evaluation ¹	3
1.20 Research/Cl		_
ED ADM 6205 (p. 358)	Legal Contexts Of Education	3
ED ADM 6204 (p. 358)	Economic Contexts Of Education	3
ED ADM 6203 (p. 358)	Political Contexts Of Education	3
ED ADM 6202 (p. 358)	Social Contexts Of Education	3
ED ADM 6201 (p. 358)	Knowledge Contexts Of Education Administration And Policy	3

- Required if student had no equivalent course at the undergraduate
- This course must be taken within the last nine (9) semester hours of completion of Phase 1.00

Phase 2.00

Section 2.10 Technical Aspects of Education Administration

At least 12 graduate semester hours are required from the following list of recommended courses: 1

ED ADM 6303 Middle School Administration (p. 358)

ED ADM 6305 School District Administration (p. 358)

ED ADM 6407	School Staff Development & Supervision- Special
(n. 358)	Ed Administration

ED ADM 6501 Principles Of Public School Finance In Missouri (p. 358)

ED ADM 6502 School Buildings And Sites (p. 358)

ELE ED 6411 Curricular Issues In Early Childhood And **Elementary Programs**

ED ADM 6315 Middle School Educational Philosophy

(p. 358)

(p. 358)

SEC ED 6415 The Secondary School Curriculum (p. 358)

SEC ED 6420 The Improvement Of Secondary School Teaching (p. 358)

ED ADM 6306 Special Education Administration (p. 358)

ED TECH 5340 Selection And Utilization Of Educational Multimedia (p. 358)

ED TECH 6449 Using Technology In Administration Processes (p. 358)

ED REM 6709 (p. Educational And Psychological Measurement 358)

Section 2.20 Human Aspects of Education Administration

At least 12 graduate semester hours are required from the following 12 list of recommended courses: 1

ED ADM 6307 Integrated Curriculum For Special Education (p. 358) Administrators

ED ADM 6317 Supervision And The Middle School Child (p. 358)

ED ADM 6402 School Personnel Administration

ED ADM 6403 Problems In School Public Relations (p. 358)

ED ADM 6404 Collective Negotiations In Education Organizations (p. 358)

ED ADM 6602 Programming In Community And Adult Education (p. 358)

ED FND 6422 Analysis Of Educational Issues (p. 358)

ED PSY 6225 The Psychology Of Adolescence (p. 358)

(p. 358)

ED ADM 6900 Internship (School District Level, 3 credit hours)

ED ADM 6900 Internship (Special Education Setting, 3 credit (p. 358) hours)

Total Hours

Other courses must be approved by the student's advisor and ELAPS department chairperson.

TOTAL Education Specialist Degree in Education Administration..... 60 (inclusive of a maximum of 36 credit hours from an M.Ed. in education administration.)

Phase 3.00 Writing Exit Requirements Section 3.10 Writing Requirements

At least two (2) months before the completion of all course work for the degree, each student must present to the ELAPS Department K-12 Regular faculty Ed.S. Writing Committee a scholarly paper on a topic approved by the student's academic advisor. The paper submitted may be original in that it has been written especially for this requirement or it may be a more comprehensive version of a paper written for a class taken after being admitted to the Ed.S. program. The paper must conform to the writing standards found in the booklet PS K-12 Writing Requirements-Form and Style.

Master of Education (M.Ed.) and Initial Missouri School Administration Certification

The program of study for the M.Ed. in Education Administration is thirty-three (33) graduate credit hours. All courses in the program are required and must be taken in a particular sequence. The program meets the academic requirements for either the Missouri elementary or secondary school administrator certificate.

Degree Requirements

1.00 Contexts Core

ED ADM 6201 (p. Knowledge Contexts Of Education 358) And Policy	Administration 3
ED ADM 6202 (p. Social Contexts Of Education 358)	3
ED ADM 6203 (p. Political Contexts Of Education 358)	3
ED ADM 6204 (p. Economic Contexts Of Education 358)	3
ED ADM 6205 (p. Legal Contexts Of Education 358)	3
1.20 Research/Change Core	
ED REM 6707 (p. Classroom Measurement And Eva 358)	aluation ¹ 3
ED ADM 6301 (p. Education Administration Policy R 358)	esearch ² 3
ED ADM 6503 (p. Organizational Change In Education 358)	on 3
1.30 School Specialization Core	
Select 1.31 or 1.32 listed below:	12
1.31 Elementary School Administration	
ED ADM 6302 Elementary School Administration (p. 358)	
ED ADM 6401 School Staff Development And Su (p. 358)	pervision
(p. 358) Curricular Issues In Early Childhoo (Elementary Programs	od And
ED ADM 6900 Internship (3 credit hours) ³ (p. 358)	
1.32 Secondary School Administration	

ED ADM 6304 Secondary School Administration

(p. 358)

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ED ADM 6401 School Staff Development And Supervision (p. 358)

SEC ED 6415 The Secondary School Curriculum (p. 358)

ED ADM 6900 Internship (3 credit hours) <sup>3</sup> (p. 358)
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Required if student had no equivalent course at the undergraduate

36

- Exit course--must be taken during last semester of M.Ed. program.
- Must be taken within the last 9 semester hours before completion of M.Ed. program.

Master of Education: Educational Administration with Emphasis in Community Education

Total Hours

This is a 32-credit hour program for students interested in Community Education.

Competencies/Expectations/Outcomes that all students must demonstrate to complete the program successfully:

- School Administrator candidates in the College of Education are held to the Interstate School Leaders Licensure Consortium's Standards for School Leaders (ISLLC)
- A school administrator is an educational leader who promotes the success of all students by facilitating the development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community.
- A school administrator is an educational leader who promotes the success of all students by advocating, nurturing, and sustaining a school culture and instructional program conducive to student learning and staff professional growth.
- A school administrator is an educational leader who promotes the success of all students by ensuring management of the organization, operations, and resources for a safe, efficient, and effective learning environment.
- A school administrator is an educational leader who promotes the success of all students by collaborating with families and community members, responding to diverse community interests and needs, and mobilizing community resources.
- A school administrator is an educational leader who promotes the success of all students by acting with integrity, fairness and in an ethical manner.
- A school administrator is an educational leader who promotes the success of all students by understanding, responding to, and influencing the larger political, social, economic, legal and cultural context.
- A school administrator is an educational leader who promotes the effective use of technology to maximize student learning and efficiently manage school operations.

The ISLLC standards pertain to Elementary and Secondary Administration and Community Education.

Degree Requirements

2.10

Total Hours		33
SEC ED 6415 (p. 358)	The Secondary School Curriculum	
ED ADM 6304 (p. 358)	Secondary School Administration	
2.42 Secondary School Administration		
ELE ED 6411 (p. 358)	Curricular Issues In Early Childhood And Elementary Programs	
ED ADM 6302 (p. 358)	Elementary School Administration	
2.41 Elementa	ry School Administration	
Select 2.41 or 2.4	2 listed below: ²	6
2.40 School Spec	cialization	
ED ADM 6900 (p. 358)	Internship	6
	Education Administration Policy Research	3
2.30 Community	Education	
ED REM 5730	Educational Statistics ³	3
ED ADM 6301 (p. 358)	Education Administration Policy Research	3
2.20 Research Co	ore	
ED ADM 6203 (p. 358)	Political Contexts Of Education	3
ED ADM 6202 (p. 358)	Social Contexts Of Education	3
or ED FND 4330	History of American Education ³	
ED FND 6435	History of Western Education ³	3
ED FND 6421	Philosophy of Education ³	3

- Exit Requirement--Taken within the last 9 semester hours of the M.Ed. program.
- Students take either section 2.41 or section 2.42, not both sections.
- This course will not be offered in 2013-2014. Please contact the department for more information.

Master of Education in Adult & Higher Education

The M.Ed. in Adult & Higher Education is intended for

- 1. faculty and other educators who want to improve their adult teaching skills;
- 2. persons who occupy and seek to advance into administrative or management positions in a variety of educational settings; and
- 3. others who work with adults in a variety of agencies.

The degree program includes courses in foundations, curriculum and teaching (including distance learning), organization and administration, research, and electives so that students can create an emphasis area to fit their career goals. To help address student interests, special topic seminars are offered from time to time. An internship in the student's

emphasis area is a required exit experience. Students elect either the adult education or higher education emphasis area.

Admission Requirements

This degree program follows the policies of The College of Education and the Graduate School relating to admissions, academic standards, residency, transfer credit, time limitations, and thesis options (see Graduate Study in the Bulletin). The minimum number of hours required for the M.Ed. degree is 32 credit hours.

Education Requirements

Foundation Courses	
Select a course focusing on the learner from the following:	3
ADULT ED 6410 he Adult Learner (p. 358)	
or HIGHERED 647€ College Student (p. 358)	
Select a course in historical foundations from the following:	3
ADULT ED 641 History Of Adult Education (p. 358)	
or HIGHERED 64787fory And Philosophy Of American Higher Education (p. 358)	tion
Select a course on the improvement of instruction from the following:	3
ADULT ED 6413mprovement Of Instruction In Adult Education (p. 358)	
HIGHERED 647Curriculum In Higher Education (p. 358)	
ED PSY 7647 Teaching For Learning In The University (p. 358)	
Select one of the following:	3-6
ADULT ED 6412Philosophical Foundations Of Adult Education (p. 358) and Curriculum Theory And Development In Adul & ADULT ED 6410cation 1 (p. 358)	t
HIGHERED 647Organization And Administration Of Higher (p. 358) Education	
Adult and Higher Education Electives	
Select a minimum of 12 hours from the following:	12
ADULT ED 623@Adult Learning And Development (p. 358)	
ADULT ED 641 Survey Of Adult Distance Education (p. 358)	
ADULT ED 641 Multicultural Issues In Adult Education	

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	ADULT ED 623@Adult Learning And Development (p. 358)	
	ADULT ED 641 Survey Of Adult Distance Education (p. 358)	
	ADULT ED 641 Multicultural Issues In Adult Education	

ADULT ED 641 Assessment In The Adult Classroom (p. 358)

ADULT ED 641 Developing Intercultural Competence (p. 358)

ADULT ED 642 Survey Of Human Resource Development And (p. 358) Adult Education

ADULT ED 6432 eaching In The Community College (p. 358)

ADULT ED 649 Directed Readings In Adult Learning (p. 358)

ADULT ED 649Problems In Adult Education (p. 358)

	ADULT ED 640 (p. 358)	Seminar In Adult Education Research	
	ADULT ED 654 (p. 358)	Comparative International Adult and Higher Education	
	HIGHERED 54(p. 358)	(Current Issues In Higher Education	
	HIGHERED 54(p. 358)	©tudent Affairs Administration	
	HIGHERED 64(p. 358)	(Seminar	
	(p. 358)	OS nancial Issues In Higher Education	
	HIGHERED 64(p. 358)	(Governance Of Higher Education	
	HIGHERED 64 (p. 358)	1®thics in Higher Education Administration	
	(p. 358)	Legal Aspects Of Higher Education	
	HIGHERED 642 (p. 358)	21egal Aspects Of Postsecondary Teaching	
	HIGHERED 642 (p. 358)	Policy Analysis Of Higher Education	
	HIGHERED 643 (p. 358)	30he Community College	
	ED ADM 6601 (p. 358)	Administration Of Adult And Community Education	
	ED ADM 6602 (p. 358)	Programming In Community And Adult Education	
	ED PSY 6111 (p. 358)	Psychology Of Education	
	ED TECH 5340 (p. 358)	Selection And Utilization Of Educational Multimedia	
	ED TECH 6416 (p. 358)	Teaching & Learning With Technology: Graphical Representational Tools	
	ED TECH 6436 (p. 358)	Computer-Mediated Communication In Education	
	ED TECH 6437 (p. 358)	Distance Learning Via Networks And Telecommunications	
	ED TECH 6452 (p. 358)	Educational Multimedia Design	
	ED TECH 6454 (p. 358)	Instructional Video Production	
Re	esearch Course	e(s)	
		rom the following:	3-6
	ED REM 6707 (p. 358)	Classroom Measurement And Evaluation	
	ED REM 6709 (p. 358)	Educational And Psychological Measurement	

(p. 358) Exit Requirement

Select one of the following taken during the last 9 semester hours of the program:

ED REM 6710 Educational Research Methods and Design ²

HIGHERED 69(Internship (3 credit hours) (p. 358)

or ADULT	ED	6 Internship
(p. 358)		

Total Hours 30-36

- Both classes are required for Adult Ed program
- 2 Required for Higher Education
- Both classes are required for Adult Ed program
- Required for Higher Education

Adult Education and Literacy Certification

Career Adult Education and Literacy Certificate – Career Continuous

Career Continuous AEL classification will be issued by DESE to an applicant upon completion and verification of the following:

- · Four years of state-approved teaching experience;
- · Participation in a two-year mentoring program;
- Beginning Teacher Assistance Program (currently called ITW);
- 60 hours* of professional development (currently ETW)
- Successful participation in an annual performance-based teacher evaluation.

^{*}Suggested courses include the following:

ADULT ED 4311	Teaching Basic Reading Skills To Adults	3
ADULT ED 6230	Adult Learning And Development	3
ADULT ED 6404	Seminar In Adult Education Research	1-10
ADULT ED 6410	The Adult Learner	3
ADULT ED 6411	History Of Adult Education	3
ADULT ED 6412	Philosophical Foundations Of Adult Education	3
ADULT ED 6413	Improvement Of Instruction In Adult Education	3
ADULT ED 6414	Curriculum Theory And Development In Adult Education	3
ADULT ED 6417	Multicultural Issues In Adult Education	3
ADULT ED 6418	Assessment In The Adult Classroom	3

Learning Outcomes

The Adult & HE student should demonstrate and/or have an understanding of:

- 1. Integrating teaching, learning, and technology.
- Awareness of education and educational research as a lifelong process.
- 3. The unique role of shared governance in postsecondary institutions.
- 4. The legal, social, and political contexts as it relates to organization and postsecondary institutions.
- Student learning and development, including learning communities and curricular issues.
- 6. Exploring issues related to faculty.
- 7. Critical inquiry, including research courses and internships.

- 8. Historical periods and historical adult and higher education educators.
- Characteristic issues associated with different historical periods;
 Role of adult education during various historical periods.
- 10. Knowledge of the vast array of methods, techniques, devices, and research findings available for helping adults learn.
- 11 Application of the various techniques for helping adult learners in their adult education programs.
- 12.Philosophical perspectives informing the field of adult education or higher education.

Graduate Certificate in Institutional Research

The Post-Master's Certificate in Institutional Research (CPIR) is for academics who want training in Institutional Research in preparation for working in an IR Office at a postsecondary institution, a government agency, or a private education organization. The program consists of 18 hours and may be taken as part of a doctoral program. Of the 18 hours, 12 are in the required core (6 hours are in research methods and 6 hours in IR seminars), plus a 3-hour Higher Education (HIGHERED) or an Educational Research (ED REM) elective and a 3-hour capstone. Students may transfer up to 5 hours of post-Master's work into the program with the approval of the advisor.

Graduate Certificate in Community College Leadership

The graduate certificate program in Community College Leadership (CCL) is a collaborative effort between the University of Missouri – Kansas City (UMKC) School of Education and the University of Missouri – St. Louis (UMSL) College of Education. The certificate program will allow participating candidates to develop skills and knowledge through completing the 18 hour curriculum outlined in the following section:

HIGHERED 6430 (p. 358)	The Community College (Taught by UMSL Faculty - Entry Level course)	3
HIGHERED 6431 (p. 358)	Community College Leadership (Taught by UMSL Faculty)	3
EDUL 5559	Current Issues in the Community College (Taught by UMKC Faculty)	3
EDUL 5553	Supervising and Managing People (Taught by UMKC Faculty)	3
Elective (Can be t from the student's	aken from either institution or an approved elective shome institution)	3
Select one of the	following (Capstone Experience):	3
HIGHERED 69 (p. 358)	dûternship (UMSL)	
EDUL 5571	Internship in Higher Education (UMKC)	

Graduate Certificate in Student Affairs Administration & Leadership

Total Hours

The graduate certificate program in Student Affairs Administration & Leadership (SAAL) would prepare participants to develop the knowledge, skills and abilities necessary to pursue entry-level staff and administrative positions with a concentrated emphasis in student affairs administration

and leadership. Students would develop the requisite knowledge and skills upon completion of an 18-hour curriculum which is outlined below:

Total Hours		18
HIGHERED 6476 (p. 358)	Organization And Administration Of Higher Education (Exit course)	3
HIGHERED 6410 (p. 358)	Ethics in Higher Education Administration	3
HIGHERED 6409 (p. 358)	Critical Issues in Student Affairs	3
HIGHERED 6408 (p. 358)	Legal Issues in Student Affairs	3
HIGHERED 6406 (p. 358)	Governance Of Higher Education	3
HIGHERED 5402 (p. 358)	Student Affairs Administration (Introductory course)	3

Adult Education Courses

ADULT ED 4311 Teaching Basic Reading Skills To Adults: 3 semester hours

A study of the reading process and of the characteristics of adult learners with a focus on instructional techniques and materials useful in upgrading the performance of adults with deficient reading skills.

ADULT ED 4410 The Non-Traditional Adult Learner: 3 semester hours
An introduction to the non-traditional adult learner. At the completion of
the course the students will be able to identify the characteristics of nontraditional adult learners and various theories of how they learn, as well as
the implications of these characteristics and theories on adult education
research, programming, curriculum planning and instructional practice.

ADULT ED 6230 Adult Learning And Development: 3 semester hours
Prerequisites: ED PSY 6210 or ED PSY 6111, or ADULT ED 6410. A
study of how life stage theories and theories of learning pertain to the
adult learner. The research bases of these theories will be explored in
relationship to instructional practice with adult learners.

ADULT ED 6404 Seminar In Adult Education Research: 1-10 semester hours

Prerequisites: ADULT ED 6410 or consent of instructor A review of current research on various topics in the field of adult education. An in-depth study of these research topics will be conducted. Application to the field of adult education will be considered. Special focus will be placed on assessing and improving competency in educational, corporate and community settings.

ADULT ED 6410 The Adult Learner: 3 semester hours

18

This course is designed for those who help adults learn in a variety of settings. A study will be made of the characteristics of Adult Learners and various theories of how they learn, as well as the implications of these characteristics and theories for Adult Education Research, Programming, Curriculum, Planning, and Instructional Practice.

ADULT ED 6411 History Of Adult Education: 3 semester hours

Prerequisites: ADULT ED 6410. In this course the historical foundation of the field of Adult Education in America will be studied. This will include the major theorists and their contributions; together with the continuing education of the adult in a progressive social context.

ADULT ED 6412 Philosophical Foundations Of Adult Education: 3 semester hours

Prerequisites: ADULT ED 6410 or consent of instructor. A comprehensive, systematic philosophical foundation for adult education. In this course the philosophical underpinnings of the various approaches to the education of adults will be explored. These include the role of the learner, the teacher, and overall objectives within each philosophy.

ADULT ED 6413 Improvement Of Instruction In Adult Education: 3 semester hours

Prerequisite: ADULT ED 6410 or consent of instructor. A study of selected methods and instructional techniques appropriate for the teaching of adults. An examination of current research will be made as it relates to the problems of instructing adults.

ADULT ED 6414 Curriculum Theory And Development In Adult Education: 3 semester hours

Prerequisite: ADULT ED 6410 or consent of instructor. A study of curriculum theory and its application to adult education. Particular emphasis will be placed on the development of model curricula for various programs in adult education.

ADULT ED 6415 Adult Literacy Perspectives: 3 semester hours

Prerequisites: ADULT ED 6410. Students will draw upon a variety of disciplines in considering the ideological, political, economic, moral, and pedagogical dimensions of literacy education. This is significant since popular, as well as scholarly, views of literacy assert its importance to a variety of personal and societal goals. In addition to a theoretical perspective, students will explore practical applications of literacy.

ADULT ED 6416 Survey Of Adult Distance Education: 3 semester hours

Prerequisites: ADULT ED 6410. This course is designed as a survey of distance education covering the concept, theories, history, present practice, delivery systems, major issues and future directions of the field of distance learning. Emphasis is on research and practice in the U.S.; however, since much of the literature in the field has been written by educators in other countries, the course will explore topics and issues in distance education from an international perspective, identifying similarities and differences among countries as they relate to adult learning.

ADULT ED 6417 Multicultural Issues In Adult Education: 3 semester hours

Prerequisites: ADULT ED 6410. In this course the learners will discuss cultural diversity from an adult education perspective. Topics include cultural self-awareness, challenges/issues in intercultural educational settings, theoretical perspectives of multicultural education, and practioner concerns and strategies for implementing multiculturalism in adult education settings.

ADULT ED 6418 Assessment In The Adult Classroom: 3 semester hours

Prerequisites: ADULT ED 6410 and ED REM 6707 or consent of instructor. This course addresses assessing how effectively adult educators are facilitating adult learning. Emphasis will be on knowledge and skills, learner characteristics, and learner reactions to instruction through the use of formative assessment of both student learning and instructional effectiveness in the adult classroom. Special attention will focus this assessment in the adult classroom within educational, corporate, community, and non-formal settings.

ADULT ED 6419 Developing Intercultural Competence: 3 semester hours

Prerequisites: ADULT ED 6410. The focus of this course is on intercultural competence theories and concepts designed to build personal, academic, and professional skills. It is intended to enable the individual to function more successfully in a global environment.

ADULT ED 6420 Survey Of Human Resource Development And Adult Education: 3 semester hours

Prerequisites: Graduate standing and permission of instructor. This course provides an overview of the fields of human resource development and adult education. The many societal contexts within which the training of adults and organization development occur will be examined. The systems theory that frames a discussion of adult education, training, and organization development is also explored. The unique characteristics of each field will be represented as well as the ways in which the two field come together along some general concepts: Definitions, philosophies, goals, sponsoring agencies, professional roles, processes, participants, and resources.

ADULT ED 6424 Intervention Determination In Adult Learning & Human Resource Dev: 3 semester hours

Prerequisite: ADULT ED 6410. A variety of strategies will be studied with a view to examining systemic problems in workforce and adult learning situations. The determination of interventions for program planning and development is the major focus. As key outcomes for this course, learners will be able to design and develop plans, and distinguish among workplace, community and educational needs that can be met with educational interventions and those that require other, and more appropriate, nontraining solutions. While specifically focused on HRD applications, the content of this course will apply to any educational setting for adults.

ADULT ED 6427 Improvement Of Instruction In Teaching Business Subjects: 3 semester hours

Prerequisites: Business certification and consent of instructor. Designed for business education teachers, this course examines current trends in planning, organizing, developing, and evaluating instructional materials relevant to business education classes. Emphasis is placed on research techniques and strategies for selecting and utilizing appropriate curriculum materials, resources and media to match learning needs. This course may be applied toward Missouri Vocational Certification.

ADULT ED 6432 Teaching In The Community College: 3 semester hours

This course is designed for students considering a teaching career in the community college. The main emphasis of the course will be to expose students to the unique features of the community college with respect to the special goals of the institution, variety of degree and nondegree programs, and diversity of community college students. A second objective will be to offer a brief review of teaching techniques that will be useful in the community college classroom.

ADULT ED 6494 Directed Readings In Adult Learning: 1-6 semester hours

Prerequisites: Graduate Standing, ADULT ED 6410 and consent of instructor. Self-directed learning, as a key concept in Adult Education, is encouraged as a means of understanding the adult experience, both personally and professionally, and is a recognized core competency in the field of Adult Education. This course consists of supervised, independent study into the current research, literature, and issues in the area of Adult Learning. Learners are given the opportunity to meet with other learners and the instructor on a regular basis to share resources, ideas, and to gain feedback.

ADULT ED 6497 Problems In Adult Education: 1-10 semester hoursPrerequisite: ADULT ED 6410 or consent of instructor. Independent study

on topics in adult education.

ADULT ED 6540 Comparative International Adult and Higher Education: 3 semester hours

Prerequisites: ADULT ED 6410 or HIGHERED 6476. A study of lifelong learning as well as adult and higher education with a view to a more global understanding of educational systems. Selected western and non-western educational themes and issues will be viewed from the context of their respective cultures.

ADULT ED 6990 Internship: 1-10 semester hours

Prerequisite: ADULT ED 6410 or consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

ADULT ED 7820 Policy Issues in Adult Education: 3 semester hours

This course should be taken immediately after admittance into the doctoral program. In this course, students will engage in a systematic examination of issues related to adult education. This will include, but not be limited to, legislative policies, delivery systems, and occupational issues. Students will be expected to examine trends in adult education practice and/or related fields.

ADULT ED 7822 Advance Research in Adult Education: 3 semester hours

Prerequisites: ADULT ED 7820. This course will build onADULT ED 7820 in which students will engage in a systematic and critical examination and discussion of research related to adult education and related area topics.

ADULT ED 7824 Communicating Theory and Practice in Adult Education: 3 semester hours

Prerequisites: ADULT ED 7822. Students will learn the processes involved in writing for publication. In conjunction with instructor, students will engage in a project that merges theory and practice. Course should be taken the semester before a student enrolls in EDUC 7950.

Educational Administration Courses

ED ADM 6000 Seminar: 1-10 semester hours

ED ADM 6200 Demographic Contexts of Education: 3 semester hours

This course is a critical examination of the impact of population changes on schools. Students will have the opportunity to investigate the social and economic dimensions of demographic shifts that affect demand for and organization of education services.

ED ADM 6201 Knowledge Contexts Of Education Administration And Policy: 3 semester hours

Prerequisites: Admission to master, doctoral, and/or certification programs in Education Administration or consent of instructor. This course is a survey of the various views of knowledge that have influenced the nature of the organizational structures and policies of American educational institutions. The course is framed both by the purposes of American education and the "scientific management" movement of the first quarter of the 20th Century.

ED ADM 6202 Social Contexts Of Education: 3 semester hours

Prerequisites: ED ADM 6201, concurrent with ED ADM 6201, or consent of instructor This course is a critical examination of different perspectives on the social structures within which education policies are constituted and their concomitant practices implemented.

ED ADM 6203 Political Contexts Of Education: 3 semester hours

Prerequisites: ED ADM 6201, concurrent with ED ADM 6201, or consent of instructor This course is a critical examination of those aspects of local, state, & federal politics which significantly influence the political contexts within which education policies are constituted and their concomitant practices implemented.

ED ADM 6204 Economic Contexts Of Education: 3 semester hours

Prerequisites: ED ADM 6201, concurrent with ED ADM 6201, or consent of instructor This course is a critical examination of those aspects of local, state, and national economic structures which influence the nature of education policies and their concomitant practices.

ED ADM 6205 Legal Contexts Of Education: 3 semester hours

Prerequisites: ED ADM 6201, concurrent with ED ADM 6201, or consent of instructor This course is a critical examination of both (1) local, state, and federal laws and (2) Western notions of justice within which education policies are constituted and their concomitant practices implemented.

ED ADM 6301 Education Administration Policy Research: 3 semester hours

Prerequisites: Completion of at least twenty-four credit hours towards the M.Ed. in Education Administration or consent of instructor. A study of issues and trends in basic, applied, and action research in education policymaking.

ED ADM 6302 Elementary School Administration: 3 semester hours

Prerequisites: Completion of at least fifteen credit hours of the M.Ed. in Education Administration or consent of instructor. This course is a comprehensive, systematic study of the elementary school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of elementary schools.

ED ADM 6303 Middle School Administration: 3 semester hours

Prerequisites: Completion of at least fifteen credit hours of the M.Ed. in Education Administration or consent of instructor. This course is a comprehensive, systematic study of the middle school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of middle schools.

ED ADM 6304 Secondary School Administration: 3 semester hours

Prerequisites: Completion of at least fifteen credit hours of the M.Ed. in Education Administration or consent of instructor. This course is a comprehenisive, systematic study of the secondary school principalship. Emphasis is placed on relating theories of learning, teaching, and organization to effective administration of secondary schools.

ED ADM 6305 School District Administration: 3 semester hours

Prerequisite: Enrollment in Advanced Certification Program and/ or consent of instructor. Course focuses on current research about school district administration; also deals with major central office issues including: board/superintendent relations, central office organization, the function and authority of assistant superintendents and program directors, and the administrative team approach to school district administration.

ED ADM 6306 Special Education Administration: 3 semester hours

Prerequisites: Completion of graduate degree in Special Education, Education Administration or consent of instructor A study of organizational issues in special education and implications for practices and procedures. Specific attention will be given to special education delivery systems, compliance standards, funding sources, and regulatory standards.

ED ADM 6307 Integrated Curriculum For Special Education Administrators: 3 semester hours

Prerequisites: Graduate Standing Development of skills to understand, supervise and evaluate the integration and differentiation of curriculum. Intended for special education administrators.

ED ADM 6315 Middle School Educational Philosophy: 3 semester hours

An in-depth examination of the educational philosophy and historical basis of middle level schools, and the relationship between philosophy and middle school organizational practices. Includes a review of the research, organizational structures, and current trends and practices.

ED ADM 6317 Supervision And The Middle School Child: 3 semester hours

The unique developmental characteristics and needs of early adolescents are explored through a variety of supervisory activities involving middle level students, teachers, and administrators. The implications of economic and ethnic diversity for middle level schools will also be addressed.

ED ADM 6401 School Staff Development And Supervision: 3 semester hours

Prerequisites: ED ADM 6201, concurrent with ED ADM 6201, or consent of instructor This course provides an examination of the conceptual bases and practical applications of staff development and supervision in educational settings. It explores relevant conceptual models presented as heuristic devices to consider a variety of administrative techniques to assess needs, plan, deliver, and evaluate staff development and supervision programs in schooling.

ED ADM 6402 School Personnel Administration: 3 semester hours

Prerequisites: Advanced standing and/or consent of instructor This course is a comprehensive, systematic study of problems in planning, recruitment, selection, induction, and retention relative to school personnel.

ED ADM 6403 Problems In School Public Relations: 3 semester hours

Prerequisites: Advanced standing and/or consent This course is an examination of a range both traditional and critical perspectives relevant to home-school-community relations.

ED ADM 6404 Collective Negotiations In Education Organizations: 3 semester hours

Prerequisites: Advanced graduate standing and/or consent of instructor This course focuses on the concepts, issues, and processes involved with collective negotiations (bargaining) in American educational organizations. The major issues addressed in the course include recognition procedures, bargaining unit determination, the scope of negotiations, the proposal and counterproposal, compromise, impasse procedures, and master contract management.

ED ADM 6407 School Staff Development & Supervision- Special Ed Administration: 3 semester hours

Prerequisites: Completion of graduate degree in Special Education, Education Administration or consent of instructor. This course provides an examination of the conceptual bases and practical application of staff development and supervision for special education settings for staffs serving special education students. It explores relevant conceptual models presented as heuristic devices to consider a variety of administrative techniques to assess needs, plan, deliver, and evaluate staff development and supervision programs serving students with special education needs.

ED ADM 6449 Using Technology In Administration Processes: 3 semester hours

Prerequisites: A course in measurement, statistics, or evaluation, or consent of instructor. Same as ED TECH 6449. The course will explore how the use of data analysis with technology can be applied in the administration of schools or other work settings. Administrators will explore software tools and their implications for making decisions. A case study will be completed on the implementation of a technology in a school or other appropriate setting.

ED ADM 6497 Problems: 1-10 semester hours

ED ADM 6501 Principles Of Public School Finance In Missouri: 3 semester hours

Prerequisites: Advanced graduate standing and/or consent of instructor Course is designed to analyze and study critical areas of public school finance at the local and state levels, highlighting the role of such factors as legislative procedures, principles of local and state support, budgeting and accounting procedures, assessment of property, etc.

ED ADM 6502 School Buildings And Sites: 3 semester hours

Prerequisites: Advanced graduate standing and/or consent of instructor This course deals with methods and procedures for (1) projecting the future building and facility needs of a public school district, (2) supervising actual planning and construction of educational facilities, (3) optimizing the use of current facilities, and (4) maintenance of buildings, grounds, and equipment.

ED ADM 6503 Organizational Change In Education: 3 semester hours

Prerequisites: Advanced graduate standing and/or consent of instructor This course deals with (1)developing strategies for assessing educational needs, (2)methods of assessing the school's "organizational health", (3)the designing of educational change strategies involving theory-based models, (4)using systemsanalysis techniques to implement educational change, and (5) methods of involving students and staff in incorporating meaningful organizational change strategies in educational institutions.

ED ADM 6601 Administration Of Adult And Community Education: 3 semester hours

Prerequisites: Graduate standing and consent of instructor A course designed to familiarize the student with the structure, purpose, and processes of community education with particular emphasis being placed on the administrative theories and functions of adult education.

ED ADM 6602 Programming In Community And Adult Education: 3 semester hours

Prerequisites: ED ADM 6601 and/or consent of instructor Study and analysis of basic situations in which community and adult educational programming take place. Within this framework, application will be made of a fundamental series of steps essential to sound educational programming.

ED ADM 6900 Internship: 1-10 semester hours

Prerequisite: Consent Of Instructor. Closely Supervised Experience In A Field Setting Under The Direction Of A Graduate Faculty Member. An Appropriate Level Of Competence And Evidence Of Growth In The Professional Role Must Be Demonstrated By The Intern. The Internship Will Include Planning, Research, Evaluation, And Related Professional Activities.

ED ADM 7050 The Research Proc I: Framing Research Questions Within The Ed Lit: 3 semester hours

Same as EDUC 7050. Prerequisites: Admission to the Ed.D. or Ph.D. in Ecucation Programs. An overview of the essential elements of research proposals and familiarization with the techniques and tools used to identify important research questions within the education literature. Emphasis is placed on exploring the research literature and both framing and justifying research questions within that literature.

ED ADM 7150 Educational Inquiry: 3 semester hours

Prerequisites: ED ADM 7050 This course is required for doctoral students in the Educational Administration program. The course supports the development of the student's individual research topic and explores options for methodological approaches to education policy and administration issues.

ED ADM 7250 The Change Process In Schools And School Districts: 3 semester hours

Prerequisites: ED ADM 7050 and ED ADM 7150 Advanced study of the literature pertaining to the theories of action and strategies for leading and sustaining change in schools and school districts. Emphasis is on the framing of research questions through the perspective of the literature on the change process in the schools.

ED ADM 7800 Educational Administration Doctoral Seminar: 1-6 semester hours

Prerequisites: Admission to doctoral program and consent of instructor Intensive directed study of selected issues related to the administration of educational institutions

Higher Education Courses

HIGHERED 5401 Current Issues In Higher Education: 3 semester hours

Prerequisites: Graduate admission Familiarizes student with nature and characteristics of American higher education. Students learn about the structure of higher education, the roles played by the various constituencies, and current issues.

HIGHERED 5402 Student Affairs Administration: 3 semester hours

Prerequisite: Graduate Admission A survey course in student personnel administration with an emphasis on understanding the college student and on learning ways to meet both his/her academic and nonacademic needs.

HIGHERED 6404 Seminar: 1-10 semester hours

Prerequisite: Graduate standing.

HIGHERED 6405 Financial Issues In Higher Education: 3 semester hours

Prerequisite: Graduate standing Provides an overview of the state/federal funding mechanisms for higher education in the U.S. Addresses practices in budgeting at various types of postsecondary institutions.

HIGHERED 6406 Governance Of Higher Education: 3 semester hours

Prerequisites: Graduate admission Concentrates on the study of the unique system of governance in higher education, including faculty, instructional, system, and state governing mechanisms.

HIGHERED 6408 Legal Issues in Student Affairs: 3 semester hours

Prerequisite: Graduate Standing. Provides an exploration of the legal and philosophical principles that guide decision-making in higher education institutions and the courts. It also includes a detailed, in-depth analysis of legal cases that have an impact on students in private and public two- and four-year colleges and universities in the United States.

HIGHERED 6409 Critical Issues in Student Affairs: 3 semester hours

Prerequisites: Graduate Standing. Explores the historical development and foundational theories of the student affairs profession. This course also explores the organization and management of programs and services, the formulation of policies that guide student personnel service programs, and the integration of program elements, research, current problems and trends.

HIGHERED 6410 Ethics in Higher Education Administration: 3 semester hours

Prerequisites: Graduate standing. Students will examine the historical philosophical foundations of ethics and their implications for faculty, staff and students in the academic workplace.

HIGHERED 6420 Legal Aspects Of Higher Education: 3 semester hours

Prerequisites: Graduate admission Examines the legal rights and responsibilities of faculty, students, staff, and administrators. Areas of focus include fair employment, due process, affirmative action, & liability.

HIGHERED 6421 Legal Aspects Of Postsecondary Teaching: 3 semester hours

Prerequisites: Graduate Admissions Examines legal issues of interest to faculty. Areas include faculty (contracts, grievances/appeals/affirmative action, free speach, tenure) and student (disability, sexual harassment, academic integrity, free speech, classroom incivility, student behavioral standards, grades) issues.

HIGHERED 6422 Policy Analysis Of Higher Education: 3 semester hours

Prerequisites: Graduate admission Introduces students to the analysis of higher education public policy. Includes state and local policy analysis and examination of legislative history of major federal higher education laws.

HIGHERED 6430 The Community College: 3 semester hours

Prerequisites: Graduate Admission The purpose of this course is to develop an understanding of the two-year college - its past, present and future. Examines history, operations, funding, internal constituents, curricular mission, societal role, and current issues.

HIGHERED 6431 Community College Leadership: 3 semester hours

Prerequisite: Graduate Admission Introduces students to leadership theory and practice and the literature of leadership development. Applies theory and practice to the uniques role of the leader in community colleges, including the community college presidency, particular emphasis is given to the diverse roles expected of the successful leader in today's community college.

HIGHERED 6432 Current Issues In Community College Education: 3 semester hours

A review and analysis of current issues affecting community college students, instruction, administration, policy and community relations. Higher Education 6430, The Community College, is recommended before taking this course for those not currently working in community college settings.

HIGHERED 6435 The International Community College: 3 semester hours

Prerequisite: HIGHERED 6430 Exploration of the development of systems of postsecondary education throughout the world that mirror all or parts of the mission of the community college system in the United States. The course takes a comparative approach to examining the history, philosophy, structure, curriculum and student characteristics of these international systems, using the American system as a point of reference.

HIGHERED 6440 Issues In Institutional Research I: 3 semester hours

Prerequisites: Graduate standing Provides a history and overview of institutional research in postsecondary education. Other areas of interest include student issues, student outcomes, higher education funding, productivity funding, and legal issues.

HIGHERED 6441 Issues In Institutional Research II: 3 semester hours

This course provides the study of key issues in institutional research, including faculty workload and salary, program assessment, fact books, peer institutions, national databases, and strategic planning.

HIGHERED 6473 Curriculum In Higher Education: 3 semester hours

Prerequisite: Graduate standing The development, implementation, and assessment of curriculum in higher education as well as historical and philosophical perspectives; major figures and emerging trends are included.

HIGHERED 6474 The College Student: 3 semester hours

Prerequisite: Graduate standing A comprehensive overview of the theories and research related to college and university student development. Particular attention is given to student demographics, patterns of growth and development, and attitudinal changes.

HIGHERED 6476 Organization And Administration Of Higher Education: 3 semester hours

Prerequisites: Graduate Standing This course includes the study of missions, governance, and organizational structures of American higher education institutions. Within this context, particular attention is given to administrative roles and responsibilities and issues of leadership.

HIGHERED 6477 History And Philosophy Of American Higher Education: 3 semester hours

Prerequisite: Graduate Standing This course is a systematic study of the historical and philosophical contexts that have conditioned the evolution of American higher education. Particular attention is given to significant events, trends, and movements within American higher education.

HIGHERED 6497 Problems: 1-10 semester hours

Prerequisites: Graduate standing and consent of instructor.

HIGHERED 6900 Internship: 1-10 semester hours

Prerequisites: Graduate standing and consent of instructor Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will included planning, research, evaluation, and related professional activities.

HIGHERED 7800 Higher Education Doctoral Seminar: 1-6 semester hours

Prerequisites: Doctoral standing or consent of instructor Intensive directed study of selected issues related to the administration of higher education institutions.

Educational Psychology, Research, and Evaluation

General Information

Faculty in the Department of Educational Psychology, Research, and Evaluation are housed on the fourth floor of Marillac Hall. Information about course offerings may be obtained in the department office, 402 Marillac Hall.

At the undergraduate level, the department coordinates Educational psychology and measurement courses required in the various B.S. in Education degree programs.

At the graduate level, the department offers courses in Educational psychology and in Educational research and evaluation methods required in the various M.Ed. degree programs and in the doctoral programs. Students choosing to pursue a Ph.D. in Education may elect an emphasis in Educational Psychology. The School Psychology Education Specialist (Ed.S.) Program is housed in this department as well.

Master of Education in Educational Psychology

The Division of Educational Psychology, Research, and Evaluation provides training in the theory, research and practice of psychological mechanisms underlying teaching, learning, and human development

of students as well as the related school processes and structures. It also provides instruction in educational research, psychoeducational assessment, and school psychology.

The M.Ed. in Educational Psychology provides training in general principles, research and practices of educational psychology as well as offering optional emphases in (1) Character Education and Citizenship Education, and (2) Educational Research and Program Evaluation. The M.Ed. in Educational Psychology can serve as an advancEmphasis Areas

When fulfilling the requirements for the M.Ed. in Educational Psychology degree, candidates may choose one of two optional emphasis areas, Character and Citizenship Education or Educational Research and Program Evaluation, by completing the corresponding courses below.

The M.Ed. degree consists of 33 hours of graduate coursework in the following areas:

- A. Foundations (15 hours)
- B. Electives (15 hours)
- C. Capstone Experience (3 hours)

All candidates take the same core/foundations courses that include 3 hours of educational foundations of educational psychology, 3 hours of learning and cognition, 3 hours of human development, and 6 hours of statistics and research design. The specific courses chosen for the 15 hours of electives and 3 hour capstone experience will vary according to the candidate's interests.

Emphasis Areas

When fulfilling the requirements for the M.Ed. in Educational Psychology degree, candidates may choose one of two optional emphasis areas, Character and Citizenship Education or Educational Research and Program Evaluation, by completing the corresponding courses below.

M.Ed. in Educational Psychology (33 hours)

Foundations

i oundutions		
Educational Foundation	ıs	3
Choose one of the fo	ollowing:	
ED PSY 6111 Psyc (p. 368)	chology Of Education	
ED PSY 6530 Four (p. 368)	ndations Of School Psychology	
Learning and Cognition		3
ED PSY 6310 Psyc (p. 368)	chology Of Learning Processes	
Human Development		3
Choose one of the fo	ollowing:	
ED PSY 6210 Life- (p. 368)	Span: Individual and Family Development	
ED PSY 6215 Psyc (p. 368)	chology Of Early Childhood Development	
ED PSY 6220 Psyc (p. 368)	chology Of The Elementary School Child	
ED PSY 6225 The (p. 368)	Psychology Of Adolescence	
Research Methods		6

	ED REM 6735 (p. 368)	Statistical Analysis For Education Research		ED PSY 6550 (p. 368)
	ED REM 6750 (p. 368)	Advanced Research Design In Education		ED REM 649 (p. 368)
E	lectives		15	ED REM 670
	Choose five of	the following ¹		(p. 368) ED REM 670
	ED PSY 6030 (p. 368)	Instruction, Learning And Assessment		(p. 368)
	ED PSY 6109 (p. 368)	Learning And Development In Secondary School Settings		(p. 368)
	ED PSY 6111 (p. 368)	Psychology Of Education		ED REM 6714 (p. 368)
	ED PSY 6113 (p. 368)	Psychopathology And Diagnosis		ED REM 6710 (p. 368)
	ED PSY 6115 (p. 368)	Personality And Social Development		ED REM 6718 (p. 368)
	ED PSY 6210 (p. 368)	Life-Span: Individual and Family Development		ED REM 6719 (p. 368)
	ED PSY 6215 (p. 368)	Psychology Of Early Childhood Development		ED REM 673 (p. 368)
	ED PSY 6217 (p. 368)	Foundations Of Citizenship Education		ED REM 6733 (p. 368)
		Coaching Sports For Character		Capstone Expe
	(p. 368)			Choose one of
	ED PSY 6220 (p. 368)	Psychology Of The Elementary School Child		ED PSY 6590 (p. 368)
	ED PSY 6225 (p. 368)	The Psychology Of Adolescence		ED PSY 6990 (p. 368)
	ED PSY 6404 (p. 368)	Seminar		ED REM 6990 (p. 368)
	ED PSY 6417 (p. 368)	Current Perspectives On Citizenship Education		EDUC 6998 (p. 368)
	ED PSY 6440 (p. 368)	Moral Development And Education		Total Hours 1 Electives ma
	ED PSY 6444 (p. 368)	Cognition And Technology		Electives ma Disciplines.
	ED PSY 6445 (p. 368)	Character Education And Development		Emphasis
	ED PSY 6448 (p. 368)	Technology-Supported Inquiry Learning		Education
	ED PSY 6450 (p. 368)	Advanced Methods In Character Education		Foundations Educational Fou
	ED PSY 6497 (p. 368)	Problems		ED PSY 6111 (p. 368)
	ED PSY 6530 (p. 368)	Foundations Of School Psychology		Learning and Co
	ED PSY 6532 (p. 368)	Psychoeducational Differences		(p. 368) Human Develop
	ED PSY 6536 (p. 368)	Biological Bases Of Behavior		Choose one of
	ED PSY 6540 (p. 368)	Psychoeducational Interventions		(p. 368) ED PSY 6215
	.,	Social-Emotional and Behavior Interventions		(p. 368)
	" ,	Consultation In Schools And Related Settings		(p. 368)

	ED PSY 6550 (p. 368)	Professional Issues In School Psychology	
	ED REM 6497 (p. 368)	Problems	
	ED REM 6707 (p. 368)	Classroom Measurement And Evaluation	
	ED REM 6709 (p. 368)	Educational And Psychological Measurement	
	ED REM 6712 (p. 368)	Survey Research Methods In Education	
	ED REM 6714 (p. 368)	Action Research In Education	
	ED REM 6716 (p. 368)	Academic Assessment and Intervention	
	ED REM 6718 (p. 368)	Psychoeducational Assessment And Intervention	
	ED REM 6719 (p. 368)	Advanced Psychoeducational Assessment and Intervention	
	ED REM 6730 (p. 368)	Educational Program Evaluation	
	ED REM 6732 (p. 368)	Advanced Theory And Practice In Educational Program Evaluation	
C	apstone Experi	ence	3
	Choose one of	the following:	
	ED PSY 6590 (p. 368)	School Psychology Practicum I	
	ED PSY 6990 (p. 368)	Internship	
	ED REM 6990 (p. 368)	Internship	
	EDUC 6998 (p. 368)	Thesis Research	
To	otal Hours		33
1	Electives may	include up to six hours of 6000-level courses from oth	er

Disciplines.

Emphasis in Character and Citizenship

Foundations		
Educational Foun	dations	3
ED PSY 6111 (p. 368)	Psychology Of Education	
Learning and Cog	nition	3
ED PSY 6310 (p. 368)	Psychology Of Learning Processes	
Human Developm	nent	3
Choose one of	the following:	
ED PSY 6210 (p. 368)	Life-Span: Individual and Family Development	
ED PSY 6215 (p. 368)	Psychology Of Early Childhood Development	
ED PSY 6220	Psychology Of The Elementary School Child	

ED PSY 6225 The Psychology Of Adolescence (p. 368) Research Methods 6 ED REM 6735 Statistical Analysis For Education Research (p. 368) ED REM 6750 Advanced Research Design In Education (p. 368) **Electives** Required 6 ED PSY 6217 Foundations Of Citizenship Education (p. 368) ED PSY 6445 Character Education And Development Choose one of the following: 3 ED PSY 6217 Foundations Of Citizenship Education ED PSY 6445 Character Education And Development (p. 368) Choose two of the following: ED PSY 6115 Personality And Social Development (p. 368) ED PSY 6218 Coaching Sports For Character (p. 368) ED PSY 6417 Current Perspectives On Citizenship Education (p. 368) ED PSY 6440 Moral Development And Education (p. 368) ED PSY 6450 Advanced Methods In Character Education (p. 368) **Capstone Experience** Choose one of the following: ED PSY 6990 Internship (p. 368) ED REM 6990 Internship (p. 368) **EDUC 6998** Thesis Research (p. 368) **Total Hours** 33

Emphasis in Educational Research and Program Evaluation

Foundations

(p. 368)

i oundations		
Educational Found	dations	3
ED PSY 6111 (p. 368)	Psychology Of Education	
Learning and Cog	nition	
ED PSY 6310 (p. 368)	Psychology Of Learning Processes	3
Human Developm	ent	3
ED PSY 6210 (p. 368)	Life-Span: Individual and Family Development	
ED PSY 6215 (p. 368)	Psychology Of Early Childhood Development	
ED PSY 6220	Psychology Of The Elementary School Child	

ED PSY 6225 (p. 368)	The Psychology Of Adolescence	
Research Method	s	6
ED REM 6735 (p. 368)	Statistical Analysis For Education Research	
ED REM 6750 (p. 368)	Advanced Research Design In Education	
Electives		
Required		6
ED REM 6712	Survey Research Methods in Education ¹	
ED REM 6730 (p. 368)	Educational Program Evaluation	3
Choose three of the	ne following:	9
ED REM 6707 (p. 368)	Classroom Measurement And Evaluation	
ED REM 6709 (p. 368)	Educational And Psychological Measurement	
ED REM 6714 (p. 368)	Action Research In Education	
ED REM 6716 (p. 368)	Academic Assessment and Intervention	
ED REM 6732 (p. 368)	Advanced Theory And Practice In Educational Program Evaluation	
Capstone Expe	erience	
Choose one of the	e following:	
ED REM 6990 (p. 368)	Internship	
EDUC 6998 (p.	. 368)	
Total Hours		33

Educational Specialist in School Psychology

The Educational Specialist in School Psychology (Ed.S.) degree program at the University of Missouri-St. Louis is a National Association of School Psychologists- approved training program that prepares future school psychologists as data-based problem solvers. Particular attention throughout the program is placed upon interventions and educational outcomes within a cognitive-behavioral theoretical perspective. The UMSL School Psychology Program promotes a unique set of professional values through its emphasis on:

- Data-based decision making
- Educational and psychological treatment outcomes
- · Multicultural diversity
- Program development and evaluation
- · Facilitation of organization change

The UMSL Ed.S. in School Psychology degree is designed to prepare future school psychologists practitioners to work in school settings. Graduates of the program are immediately eligible for School Psychologist Certification from the Missouri Department of Elementary and Secondary Education and the Nationally Certified School Psychologist credential from the National Association of School Psychologists.

Learning Outcomes

The following outcomes guide the training and preparation of our Ed.S. in School Psychology degree candidates.

Data-Based Decision Making

Ed S. candidates will acquire knowledge of a variety of assessment models and methods that enable them to develop expertise in collecting, analyzing, and interpreting data for the purpose of making recommendations to improve the academic performance and/or social-emotional development of children and adolescents with whom they work.

Improved Educational and Psychological Treatment Outcomes

Ed S. candidates will gain knowledge of and develop skills associated with a wide-range of research-based academic, behavior, and psychological interventions treatments to promote academic performance and social-emotional behavior.

Multicultural Diversity

Ed S. candidates will acquire knowledge of identity development that facilitates the development of skills to work with a students and families from diverse groups, thereby engaging in culturally-competent practice.

Program Development and Evaluation

Ed. S. a variety of data collection and research methodologies that enable them to develop, implement, and evaluate school-based interventions and programs for children and adolescents. Candidates will gain knowledge and skills of

Facilitation of Organizational Change

Ed S. candidates will acquire an understanding of the complexity of educational systems and the role school psychologists can play to promote systemic changes and improve services for children and adolescents.

The Ed. S. in School Psychology degree program consists of 60 hours of graduate coursework that includes coursework in psychological and educational foundations, psychoeducational assessment, and direct and indirect service delivery. Prevention and early intervention of academic, behavioral, and social-emotional problems through consultation, interdisciplinary collaboration, and systems-level interventions are highlighted throughout the program. The Ed.S. degree is a small cohort program that utilizes close relationships with faculty and field-based practitioners to develop professional skills.

Admission requirements include a 3.0 undergraduate GPA, current GRE scores Verbal, Quantitative and Analytical Writing scores at or above the 50th percentile, three letters of recommendation, a personal statement describing personal goals (not to exceed three single-spaced typed pages) and vita detailing relevant experience with children, adolescents, and families. Prerequisite coursework in the areas of Developmental Psychology, and Psychological Statistics is required for admission. Following initial screening, finalists will be invited for an on-campus interview with the School Psychology Program faculty and current Ed. S. candidates. All required application materials will be considered equally when making admission decisions. Applications are reviewed annually with a February 15 deadline.

Transfer credit may be granted for graduate coursework completed prior to entering the program, but strict limitations apply. The Ed.S. in

School Psychology degree program involves a minimum of three years of intensive study. Although it is possible to complete the first year of the curriculum on a part-time basis, please note that practicum during the second year involves two days per week working in a school with a school psychologist, and internship is a yearlong fulltime supervised experience. Consequently, fulltime study is recommended and preferred.

Educational Specialist in School Psychology (Ed..S.)

Curriculum

First Year			
Fall	Hour 3 pring	Hour S ummer	Hours
ED PSY 6530 (p. 368)	3 ED PSY 6310 (p. 368)	3 ED PSY 6210 (p. 368)	3
ED PSY 6532 (p. 368)	3 ED PSY 6550 (p. 368)	3 SPEC ED 6325 (p. 368)	3
ED PSY 6545 (p. 368)	3 ED REM 6718 (p. 368)	3	
ED REM 6750 (p. 368)	3 ED REM 7771 (p. 368)	3	
	12	12	6
Second Year			
Fall	Hour 3 pring	Hours	
ED PSY 6536 (p. 368)	3 CNS ED 6030 (p. 368)	3	
ED PSY 6540 (p. 368)	3 ED PSY 6542 (p. 368)	3	
ED PSY 6590 (p. 368)	3 ED PSY 6591 (p. 368)	3	
ED REM 6719 (p. 368)	3 ED REM 6730 (p. 368)	3	
	12	12	
Third Year			
Fall	Hour 3 pring	Hours	
ED PSY 6598 (p. 368)	3 ED PSY 6599 (p. 368)	3	
	3	3	

Total Hours: 60

In addition to completion of the 60-hour curriculum listed above, candidates for the Ed.S. in School Psychology degree must receive passing scores on the following programmatic assessments: Praxis II School Psychologist Examination, Problem-Solving Case Study, and Comprehensive Examination.

Graduate Certificate in Program Evaluation in Education

The graduate Certificate in Program Evaluation in Education provides specialized study in the theory and practice of program evaluation. The program will build on the content area knowledge base of the individual's bachelors and masters degree. The focus of the Program Evaluation in Education certificate will be on the skills delineated in the standards and guidelines of the American Evaluation Association and the Joint Committee on Standards in Educational Evaluation. The certificate will consist of 18 hours of core courses and internship experiences. Graduate credits earned in equivalent courses in Education or related Social Science disciplines may meet some of these requirements.

Research Methods

ED REM 6750 (p. Advanced Research Design In Education	3
368)	
ED REM 7771 (p. Quantitative Research Methods I	3
368)	
ED REM 7781 (p. Qualitative Methods In Educational Research I	3
368)	

Program Evaluation

ED REM 6730 (p. Educational Program Evaluation 368)	3
ED REM 6732 (p. Advanced Theory And Practice In Educational 368) Program Evaluation	3
ED REM 6990 (p. Internship 368)	1-10
Total Hours	16-25

Graduate Certificate programs are a minimum of 18 credit hours.

Educational Psychology Courses

ED PSY 2212 Introduction To Learners And Learning: 3 semester hours

Prerequisite: PSYCH 1003. This course examines, discusses and applies theories on infant, child, and adolescent development; examines student growth in various domains, including cognitive, linguistic, physical, and socio-emotional; and analyzes how different cultural contexts affect learning. Through readings, in-class activities, and field assignments outside of class time, students will consider how to apply these theories to create appropriate learning environments.

ED PSY 3312 Psychology of Learning, Instruction, and Assessment: 3 semester hours

Prerequisites: TCH ED 2209, ED PSY 2212 or equivalents and admission to Teacher Education program. Application of educational psychology theories and research to learning, instruction, and assessment. Candidates will gain experience working with individuals and groups in settings that will provide the opportunity to design and evaluate instruction and assessment. Field assignments outside of class hours required.

ED PSY 6030 Instruction, Learning And Assessment: 3 semester hours

Prerequisite: Admission to Graduate School.Reviews cognitive theories and research to examine how teachers can improve the design of classroom instruction, including the development of units, lesson plans, and assessment strategies. Students will critically evaluate current educational practices, design appropriate assessments based on instructional goals, and assess their own professional development as teachers.

ED PSY 6109 Learning And Development In Secondary School Settings: 4 semester hours

Prerequisites: Graduate standing and admission to the secondary teacher education program. Investigation of teaching and learning theories and research on the developmental needs of pre-adolescent and adolescent students. Issues of cognition, moral and social development, motivation, and assessment will be analyzed and debated. Emphasis will be on theoretical and practical approaches to constructing and analyzing a learning system. Includes field experiences.

ED PSY 6111 Psychology Of Education: 3 semester hours

Current psychological theories and research that guide inquiry and decision making in education. Topics surveyed include behavior, development, learning, instruction.

ED PSY 6113 Psychopathology And Diagnosis: 3 semester hours

Same as CNS ED 6070. Prerequisites: Graduate Standing. Covers etiology, assessment and diagnosis of mental disorders using contemporary diagnostic systems. Course materials and assignments address the dynamics of adjustment and treatment implications for counselors, school psychologists, and others in the helping professions.

ED PSY 6115 Personality And Social Development: 3 semester hours

Prerequisites: Graduate admission A foundational course integrating major theoretical perspectives on personality and social development. Emphasis is on the dynamic interplay of social influences on personality development and personality influences on social processes. Particular consideration is given to the impact of social contexts, including the school, on development.

ED PSY 6210 Life-Span: Individual and Family Development: 3 semester hours

Prerequisites: Graduate Standing Critical analyses of theories of human development including readings from empirical research and cross-cultural comparisons focusing on strategies to enhance developmental outcomes through relationship and environmental opportunity.

ED PSY 6215 Psychology Of Early Childhood Development: 3 semester hours

Prerequisites: ED PSY 6111 or consent of instructor. A survey of the theories, concepts and research which inform the field of early childhood development and help caregivers and teachers understand the cognitive, social, and emotional changes that take place from birth through the primary years of schooling.

ED PSY 6217 Foundations Of Citizenship Education: 3 semester hours

Prerequisites: Graduate Standing Introduction to citizenship education providing a range of knowledge of civic participation, concepts of democracy, the democratic purposes of education, and the developmental of civic identity and political thinking, attitudes, and engagement. Comparison of historical and contemporary approaches to democratic citizenship education in the United States.

ED PSY 6218 Coaching Sports For Character: 3 semester hours

Prerequisites: Graduate Standing Interdisciplinary examination of relevant theory, research and pedagogical practices related to character development through sports. Drawing from both academic and professional literatures, the course addresses leadership strategies that promote character development and athletic excellence.

ED PSY 6220 Psychology Of The Elementary School Child: 3 semester hours

Prerequisites: ED PSY 6111 or consent of instructor. Current research on the psychological changes which occur during the school age years (ages 5-12) of childhood. Includes attention to how development proceeds and to the processes that may alter its progress.

ED PSY 6225 The Psychology Of Adolescence: 3 semester hours

Prerequisites: ED PSY 6111 or consent of instructor. Current research on the psychological changes which occur during adolescence. Attention is paid to the family, school, peer groups, and contemporary settings that practitioners must understand to help young people meet the psychosocial challenges of adolescence.

ED PSY 6310 Psychology Of Learning Processes: 3 semester hours Prerequisites: ED PSY 6111, Psychology of Education. Advanced study of learning and instructional theories. The historical and theoritical bases of instructional practice are examined.

ED PSY 6404 Seminar: 1-10 semester hours

ED PSY 6417 Current Perspectives On Citizenship Education: 3 semester hours

Prerequisite: ED PSY 6217 Seminar extends students' understanding of theory and research in citizenship education by applying it to practical programs in the US and abroad. Analaysis of assumptions underlying methods of citizenship education and its goals. Exploration of research on methods that promote, facilitate, or inhibit civic participation and citizenship competence.

ED PSY 6440 Moral Development And Education: 3 semester hours

Prerequisites: ED PSY 6210, or ED PSY 6220, or ED PSY 6225, or consent of instructor Introduction and overview of moral psychology and its implications for creating learning environments. Questions of human morality are by nature cross-disciplinary, and readings and discussions will involve questions of epistemology, human nature, conceptions of "the good life," evidence for the malleability of human development, and research regarding the foundation, nature, and complexity of moral development.

ED PSY 6444 Cognition And Technology: 3 semester hours

Same as ED TECH 6444. Prerequisites: ED PSY 6111 or consent of instructor. Examines cognitive theories and computer-based tools for learning. Students will gain a critical understanding of the relationship between the design of technological tools, the use of those tools in educational settings, and their implications for learning.

ED PSY 6445 Character Education And Development: 3 semester hours

Prerequisites: ED PSY 6111 and ED PSY 6220 or ED PSY 6225 Critical survey of theories of character development and models for character education inchildhood and adolescence. Includes empirical and conceptual study of the nature of moral character how it develops, and how it can be fostered in schools.

ED PSY 6448 Technology-Supported Inquiry Learning: 3 semester hours

Same as ED TECH 6448. Prerequisites: ED TECH 5340 and ED PSY 6412 or consent of Instructor. Educational technology such as networked computers and software can play a supportive role in inquiry-based learning. Students will explore the theoretical background, design issues, pragmatic realities of technology-supported inquiry learning environments. Such learning environments are best understood as systems involving social, cultural, material and psychological aspects. Consideration will be given to the important properties of settings, activities and technologies, as well as to the role of instructors.

ED PSY 6450 Advanced Methods In Character Education: 3 semester hours

Prerequisites: ED PSY 6445 Advanced exploration of methods for promoting character development in schools: class meetings, democratic processes, cross-age learning and character curiculum development. Methods will be critically examined for their empirical and theoretical justifications.

ED PSY 6497 Problems: 1-10 semester hours

ED PSY 6530 Foundations Of School Psychology: 3 semester hours

Prerequisites: Admission to the School Psychology Program or consent of instructor. Examines the professional roles, responsibilities, and functions of psychologists in schools. Focuses on educational foundations of school psychology including the history of the profession, organization and operation of schools, and emergent technologies.

ED PSY 6532 Psychoeducational Differences: 3 semester hours

Prerequisites: Graduate Standing Examiniation of classification systems used with children and adolescents in the diagnosis and treatment of educational and physical disabilities, mental disorders, and other developmental challenges.

ED PSY 6536 Biological Bases Of Behavior: 3 semester hours

Prerequisites: Graduate Standing Examiniation of biological factors affecting human behavior. Includes an overview of neuroscience, developmental psychophysiology, and basic psychopharmacology. Implications for psychological and educational interventions are considered.

ED PSY 6540 Psychoeducational Interventions: 3 semester hours

Prerequisites: Grades of B or better in ED REM 6718 or consent of instructor. Examines academic and instructional interventions, both preventive and remedial, that are delivered in schools and related settings with children and adolescents. Emphasizes linking assessment and intervention via use of direct and indirect service delivery.

ED PSY 6542 Social-Emotional and Behavior Interventions: 3 semester hours

Prerequisites: Grade of B or better in SPEC ED 6325 or consent of instructor. Provides instruction and practice in the use of the problem-solving model to address common social-emotional and behavior problems found in schools. Special emphasis is given to research-based, early intervention and targeted intervention techniques that improve student behavior. Concurrent placement in a school or related setting is necessary to complete course assignments.

ED PSY 6545 Consultation In Schools And Related Settings: 3 semester hours

Prerequisites: Admission to the School Psychology or Special Education Program, or consent of instructor. Examines the theories, research, and legal/ethical issues related to consultation in schools and related settings. Emphasis on understanding he process of consultation using a problem-solving approach. Includes instruction in interviewing, observation, and development and evaluation of interventions.

ED PSY 6550 Professional Issues In School Psychology: 3 semester hours

Prerequisites: Grade of B or better in ED PSY 6530 or consent of instructor. Advanced examiniation of professional issues facing school psychologists including legal and ethical considerations, standards of practice, models of service delivery, and emergent technologies.

ED PSY 6590 School Psychology Practicum I: 3 semester hours

Prerequisites: Grades of B or better in ED PSY 6550 and ED REM 6718. Introductory supervised experience in psychoeducational assessment and interventions for academic and behavior problems in schools and related settings. Settings and responsibilities determined in consultation with program faculty and site supervisor.

ED PSY 6591 School Psychology Practicum II: 3 semester hours

Prerequisites: Grade of B or better in ED PSY 6590. Advanced supervised experience in consultation, problem solving, psychoeducational assessment and interventions for academic and behavior problems in schools and related settings. Settings and responsibilities determined in consultation with program faculty and site supervisor.

ED PSY 6598 School Psychology Internship I: 3 semester hours

Prerequisites: Grade of B or better in ED PSY 6591. Supervised field-based placement in an approved school or educational setting under the supervision of an appropriately credentialed school psychologist. Course is eligible for graduate equivalency credit.

ED PSY 6599 School Psychology Internship II: 3 semester hours

Prerequisites: Grade of B or better in ED PSY 6598. Advanced supervised field-based placement in an approved school or educational setting under the supervision of an appropriately credentialed school psychologist. Course is eligible for graduate equivalency credit.

ED PSY 6990 Internship: 1-10 semester hours

Prerequisite: Consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

ED PSY 7210 Theories of Development and the Life Course: 3 semester hours

Prerequisites: Doctoral standing and at least one course in human development (e.g., ED PSY 6210, ED PSY 6220, ED PSY 6225, ED PSY 6230), or consent of instructor. This advanced course examines the historical, ecological, cultural, and individual factors that shape developmental and educational experiences. Diverse families and their trajectories will be highlighted to demonstrate the intersecting spheres that shape human development. Students will critique research from multiple disciplines, analyze policy issues, and design a study to deepen their understanding of traditional and current theories on the life course.

ED PSY 7640 Changing Perspectives In Educational Psychology: 3 semester hours

Prerequisites: Doctoral Student Standing or consent of instructor The advanced exploration of foundational issues in educational psychology. Topics include theoretical perspectives on modes of analysis used in the investigation of psychological theories and concepts in education.

ED PSY 7647 Teaching For Learning In The University: 3 semester hours

Prerequisites: Graduate standing and consent of instructor An examination of current research in learning, instruction, motivation, and assessment as it pertains to teaching and learning in post-secondary settings. Designed to guide graduate students to promote active and meaningful learning in college classrooms to develop college students' critical thinking skills. Graduate students across the disciplines may enroll.

Educational Research And Evaluation Method Courses

ED REM 3721 Psychoeducational Assessment and Evaluation: 3 semester hours

Review of measurement concepts and use of psychoeducational assessment data gathered via interview, observation, norm-referenced, and curriculum-based assessment methods. Special emphasis on progress monitoring and data-based decision making.

ED REM 6040 Educational Research for Teachers: 3 semester hours

Prerequisites: TCH ED 6010 and TCH ED 6020. This course provides the basic knowledge and skills needed by educators to understand and engage in educational research. Educators will learn and use both analytic and practical tools for studying teaching, learning, and assessment in educational contexts, including their own classroom.

ED REM 6497 Problems: 1-10 semester hours

Prerequisite: At least one previous ED REM course and consent of course supervisor. Individual study on topics pertaining to educational measurement, evaluation, statistics and research design.

ED REM 6707 Classroom Measurement And Evaluation: 3 semester hours

Prerequisites: Graduate admission or consent of instructor An introductory graduate course to classroom testing and evaluation. Topic areas include comparison of criterion-and normreferenced theory and technique; classical test theory, reliability, validity, and associated descriptive statistics; derived and transformed scores; preparation of instructional objectives for use in developing the classroom test, performance evaluations, and portfolio rubrics; use of evaluation to assess student achievement and instructional effectiveness.

ED REM 6709 Educational And Psychological Measurement: 3 semester hours

Prerequisites: Graduate admission or consent of instructor An introductory graduate course in testing and measurement theory: reliability, validity, and associated descriptive statistics; correlation and simple regression; derived and transformed scores; interpretation of test scores; measurement of aptitude, vocational interests, and personal-social adjustment.

ED REM 6710 Educational Research Methods and Design: 3 semester hours

Prerequisites: An introductory statistics course or ED REM 6707 or ED REM 6709 or consent of instructor An introductory course in educational research methodology: comparison of various types of qualitative and quantitative educational research, threats to internal/external validity, sampling methods, data analyses, and components of research reports.

ED REM 6714 Action Research In Education: 3 semester hours

Prerequisites: ED REM 6710 or consent of instructor A course that engages the participants in systematic qualitative inquiry into their own practice: framing appropriate questions; gathering and interpreting data; analyzing culture, subjectivity and multiple perspectives; and reporting the results ("telling the story"). Readings will address the methods, politics, and ethics of action research. Enrollment requires access to a field setting.

ED REM 6716 Academic Assessment and Intervention: 3 semester hours

Prerequisites: Graduate Standing. Provides instruction in measurement concepts, interpretation of cognitive ability tests, and use of norm-referenced and curriculum-based assessment techniques in developing academic interventions. Special attention is given to data-based decision making and the links among instruction, assessment, and intervention.

ED REM 6718 Psychoeducational Assessment And Intervention: 3 semester hours

Prerequisites: Grade of B or better in ED PSY 6530 or CNS ED 6050, or consent of instructor. Reviews measurement concepts and covers administration, scoring, interpretation, and reporting of individually administered tests of academic and cognitive abilities. Special attention is given to the link between assessment and intervention.

ED REM 6719 Advanced Psychoeducational Assessment and Intervention: 3 semester hours

Prerequisites: Grade of B or better in ED REM 6718 or consent of instructor. Instruction is provided in advanced and specialized assessment, diagnostic, and intervention techniques for individuals with intellectual disabilities, emotional or behavior disorders, and other low incidence disabilities experienced by children and youth.

ED REM 6727 Problems: 1-10 semester hours

Prerequisite: At least one previous educational statistics and research course with a grade of "B" or better. Individual study on topics pertaining to educational statistics and research design.

ED REM 6730 Educational Program Evaluation: 3 semester hours

Prerequisites: ED REM 6750 or consent of instructor. A course on the principles and procedures for assessing the quality and effectiveness of programs, projects, and materials related to planned interventions and system changes in educational settings.

ED REM 6732 Advanced Theory And Practice In Educational Program Evaluation: 3 semester hours

Prerequisites: ED REM 6730, or consent of the instructor Extension of the principles, attributes, and practice of program evaluation to contemporary problems and settings. Study will include the comparison of examples of the program evaluation process. Focus will be on adherence to the Program Evaluation Standards endorsed by leading professional research and evaluation associations.

ED REM 6735 Statistical Analysis For Education Research: 3 semester hours

Prerequisites: Graduate Standing Provides students with a fundamental intermediate understanding of quantitative methods and their relationship to social science research in education. This course is designed to provide statistical background to students who will pursue advanced degrees in education. Students will conduct lab data analysis based on the topics covered in the class and learn how to generate specific research questions and conduct basic statistical analysis.

ED REM 6750 Advanced Research Design In Education: 3 semester hours

Prerequisites: ED REM 6735 or consent of instructor. Course is designed to provide students with a thorough background in the fundamental principles of research design in education, and the knowledge and skills necessary to design and carry out studies appropriate to a wide variety of research problems. It focuses on tailoring the research design and methodology to most effectively address the problem or issue of concern, including qualitative, quantitative, and mixed-method designs. This is an experiential course designed around active discussion by students each week, and requires each student to develop a detailed research proposal for conducting a study to examine an appropriate educational research problem.

ED REM 6990 Internship: 1-10 semester hours

Prerequisite: consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

ED REM 7711 Advanced Test Theory In Education: 3 semester hours

Prerequisites: ED REM 6750. An advanced course in measurement theory and practice: issues of reliability, validity, and item analysis for both criterion and norm referenced tests; introduction to factor analysis in the development and analysis of test structure and validity; introduction to item response theory for the improvement of educational testing and research.

ED REM 7712 Discourse Analysis In Education: 3 semester hours

Prerequisites: Graduate Standing. The role of language in social life is of paramount concern to educational researchers. The purpose of this course is to introduce students to theories and methods of discourse analysis. Students will become familiar with the methods used in conversation analysis, critical discourse analysis and mediated or multimodal discourse analysis. Topics include transcription theory and practice, the role of context in discourse analysis, the ethics of representation and the place of action in discourse analysis. Students will engage with the theories and methods for analyzing educational interactions such as small-group discussions, education documents, classroom scenes, in-depth interviews, and naturally occurring conversations.

ED REM 7771 Quantitative Research Methods I: 3 semester hours

Prerequisites: ED REM 6735. A second course in advanced Educational research methods sequence, with focus on multiple regression analysis and its applications to educational and psychological research.

ED REM 7772 Quantitative Research Methods II: 3 semester hours

Prerequisites: ED REM 7771 or consent of instructor An advanced educational research methods course: multivariate analysis of variance, canonical correlation, discriminant function analysis, factor analysis, cluster analysis, advanced topics in multiple linear regression; and associated research design issues.

ED REM 7773 Quantitative Research Methods III: 3 semester hours

Prerequisites: ED REM 7772 An advanced educational research methods course using multiple linear regression models, path analysis, and structural equation modeling. Focus is on the theory, issues and application of these advanced data analysis techniques.

ED REM 7781 Qualitative Methods In Educational Research I: 3 semester hours

Prerequisites: ED REM 6750 or consent of instructor. An introductory qualitative research methods course in education to develop skill in forming research questions, writing field notes, and collecting, organizing, and analyzing a variety of data. The design issues of triangulation subjectivity, and trustworthiness are explored. Ethics and ethical issues in qualitative research are presented.

ED REM 7782 Qualitative Methods In Educational Research II: 3 semester hours

Prerequisites: ED REM 7781 or consent of instructor An advanced qualitative educational research methods course to address the issues of sampling strategies, observational and interview techniques, questionnaire construction, and data analysis. Requires access to a field setting to conduct a qualitative research study.

Secondary and K-12 Education

General Information

The Department of Secondary and K-12 Education faculty offices are located on the 3rd floor in Marillac Hall and in the Mark Twain Building. Information about course offerings and related matters on all programs, except physical education, may be obtained in 369 Marillac Hall. The physical education offices are located in 234 Mark Twain Building.

The secondary education program prepares students for teaching these subjects in secondary schools (grade 9-12): biology, chemistry, English, mathematics, physics, social studies, Spanish, French, music, and art. A special feature of these programs is the close interdisciplinary cooperation between the College of Education and other university departments.

Students may also choose to pursue the Bachelor of Arts (B.A.) degree in the College of Arts and Sciences or the College of Fine Arts and Communication and additional coursework leading to teacher certification.

The physical education program coordinates work in physical education, which leads to a B.S. in education degree with certification to teach students in either K-9 or K-12. The secondary education graduate programs provide courses for graduate students who choose physical education as their teaching field.

At the graduate level, the department provides a program leading to an M.Ed in secondary education with emphasis in: general secondary education; curriculum and instruction; TESOL and secondary reading. At the graduate level, requisite course work for Missouri teacher certification in secondary education is available to those with a Bachelor's Degree in a certification subject area, as is the M.Ed. Degree.

Note: The State Board of Education developed standards for renewable professional certificates, based on specific requirements for training and experience. Details regarding these standards are available in the Office of Advising and Student Services in 116 South Campus Classroom.

Career Outlook

The employment outlook in the schools continues to be positive, especially in mathematics, sciences and modern languages. Recent placement years have yielded excellent employment opportunities to UMSL graduates. In addition to middle school, and high school teaching, more limited opportunities exist in athletic training, dance, research, sports management, and exercise leadership fields serving persons of all age categories.

Undergraduate Studies

Bachelor of Science in Education: Secondary Education

Two secondary Education programs prepare students to teach in grades 9 through 12: Bachelor of Science in Secondary Education through the College of Education (B.S.Ed.) OR Bachelor of Arts (B.A.) in a department of the College of Arts and Sciences or College of Fine Arts and Communication with certification in Secondary Education

General Education Requirements

B.S.Ed. degree candidates must complete the following General Education courses (p. 28) required by the College of Education and the Missouri Department of Elementary and Secondary Education.

Humanities

Three courses req	uired from the following fields:	9
Music (excludin	g applied music)	
Art		
Foreign Langua	ge	
Western and No	on-western cultures	
Philosophy		
Literature		
Theater and Dra	ama	
Communication S	Skills	
At least two course	es in English compostition and one in oral	9
communications. 1		
Social Studies		
HIST 1001 (p. 375)	American Civilization To 1865	3
or HIST 1002 (p. 375)	American Civilization 1865 To Present	
POL SCI 1100 (p. 375)	Introduction To American Politics	3
PSYCH 1003 (p.	General Psychology	3

Natural Science

375)

One course in a physical or earth science; one course in a biological science. At least one of these courses must have a laboratory component.

8

Mathematics

MATH 1020 (p.	Contemporary Mathematics	3
375)		
or MATH 1030 (p. 375)	College Algebra	
or MATH 1021 (p. 375)	Choice and Chance	
Total Hours		38

¹ HIST 1111 (p. 375), Reacting to the Past is recommended.

Note All of the courses above must be a minimum of 2 semester hours.

Program Requirements

B.S.Ed. and B.A. degrees with certification candidates must complete the following courses:

Level I: Exploring Education as a Profession

TCH ED 2209 (p. 375)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 375)	Introduction To Learners And Learning	3
EDUC 1000 (p. 375)	Effective Career Decision Making for Educators	3
Level II: Analyzir	ng the Nature and Process of Education	
ED PSY 3312 (p. 375)	Psychology of Learning, Instruction, and Assessment	3
ED TECH 3135 (p. 375)	Technology for Educators	1
SPEC ED 3318 (p. 375)	Inclusive Classrooms	3
TCH ED 4391 (p. 375)	Literacy for Adolescent Learners in Content Areas	3
TCH ED 3310 (p. 375)	Introduction To Instructional Methods	3
Level III: Synthes	sizing Theory and Practice in Education	
SEC ED 4XXX	Curriculum and Methods of Teaching (specific subject area)	3
SEC ED 4989 (p. 375)	Practicum I: Site Based Experience	3
SEC ED 4990 (p. 375)	Practicum II: Site Based Experience	12
SEC ED 4XXX	Student Teaching Intern Seminar (specific subject area)	3
Total Hours		43

Attention Education majors

Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Beginning with those students graduating in May, 2017 and receiving teacher certification, the Missouri Department of Elementary and Secondary Education requires a 3.0 GPA in professional education courses, a 3.0 GPA in the teaching content field, and a 2.75 overall GPA.

Students must pass the relevant exit test to receive the B.S.Ed. degree.

Emphasis Areas:

B.S.Ed. candidates must complete 30 to 50 hours of specific subject requirements in one of the following fields:

English

Please see the Bachelor of Art in English with Certification for Secondary Education for a list of required courses in the content area (https://nextbulletin.umsl.edu/artsandsciences/english/#undergraduatetext) for teacher certification.

Foreign language (French or Spanish)

Please see the Bachelor of Science in Education for the list of required courses in the specific language content area (https://nextbulletin.umsl.edu/artsandsciences/anthropologysociologyandlanguages/languagesandcultures/#undergraduatetext) for teacher certification.

Mathematics

Please see the Bachelor of Science in Secondary Education with an emphasis in mathematices for a list of the courses in content area (https://nextbulletin.umsl.edu/artsandsciences/mathematicsandcomputerscience/#undergraduatetext) required courses for teacher certification.

Unified Science (biology, chemistry, or physics endorsement)

- Please see the Bachelor of Art in Biology with Teacher Certification or Bachelor of Science in Education with an emphasis in biology for a list of the courses in the content area (https://nextbulletin.umsl.edu/ artsandsciences/biology/#undergraduatetext) required for teacher certification.
- Please see Degrees with Certification to Teach Chemistry in Secondary Schools for the list of courses in the content area (https://nextbulletin.umsl.edu/artsandsciences/chemistry/#undergraduatetext) required for teacher certification.
- Please see B.S. degree in Physics, Physics Education Option and B. S. degree in Secondary Education with an Emphasis in Physics for a list of the courses in thecontent area (https://nextbulletin.umsl.edu/ artsandsciences/physicsandastronomy/#undergraduatetext) required for teacher certification.

Music Education

Please see the Bachelor of Music in Music Education for the list of courses in the content area (https://nextbulletin.umsl.edu/collegeoffineartsandcommunication/music) required for teacher certification. Students take the following courses during the same semester: SEC ED 4993, Student Teaching in Music Education K#6, and SEC ED 4994, Student Teaching in Music Education 7#12.

Art Education

Please see Art Education for a list of the art content area (https://nextbulletin.umsl.edu/collegeoffineartsandcommunication/artandarthistory/#undergraduatetext) courses required for teacher certification. Students take the following courses during the same semester: SEC ED 4996, Practicum I: Site based Experience in Elementary Art and SEC ED 4997, Practicum I: site based Experience in Secondary Art.

Social Studies

Certification students must complete a major or an equivalent in hours in one of the following disciplines: anthropology, economics, geography, history, political science, psychology, or sociology. They must meet these minimum social science requirements:

- American history, 12 hours including SEC ED 4013 (p. 375)European or world history, 9 hours including
- United States and/or state government, 6 hours including POL SCI 4090 (p. 375)/SEC ED 4090 (p. 375)Behavioral science, 6 hours
- · Economics, 3 hours
- · Geography, 3 hours
- · 2 hours of elective social studies credit.
- Social science methods courses are SEC ED 4011 (p. 375)

Physical Education

Grades PK-9 Emphasis Program Requirements

Level I: Exploring Education as a Profession

13 hours to be con	mpleted before advancement to Level II:	
ED PSY 2212 (p. 375)	Introduction To Learners And Learning	3
EDUC 1000 (p. 375)	Effective Career Decision Making for Educators	3
TCH ED 2209 (p. 375)	Foundations of Teaching in American Schools	3
HLTH PE 3277 (p. 375)	Foundations of Health & Physical Education Programs	2
HLTH PE 3280 (p. 375)	Human Anatomy And Physiology	5
Level II: Analyzir	ng the Nature and Process of Education	
21 hours to be con	mpleted before enrollement in any Level III courses:	
ED PSY 3312 (p. 375)	Psychology of Learning, Instruction, and Assessment	3
SPEC ED 3318 (p. 375)	Inclusive Classrooms	3
TCH ED 4391 (p. 375)	Literacy for Adolescent Learners in Content Areas	3
HLTH PE 3275 (p. 375)	Psychological Aspects Of Physical Education	3
HLTH PE 3285 (p. 375)	Safety and Emergency Care for Health & Physical Education	3
HLTH PE 3433 (p. 375)	Health Education Concepts and Skills	3
PHY ED 3282 (p. 375)	Physical Growth And Motor Development	3
PHY ED 3283 (p. 375)	Kinesiology	3
HLTH PE 3284 (p. 375)	Physiology Of Human Exercise	3
8 hours can be taken concurrently with Level III courses:		
HLTH PE 3434 (p. 375)	Teaching of Health and Wellness	4
PHY ED 3261 (p. 375)	Physical Activity For The Exceptional Learner	2

PHY ED 3468 (p. 375)	Curriculum And Methods Of Teaching Physical Education	3
Level III: Synthes	sizing Theory and Practice in Education	
HLTH PE 4989 (p. 375)	Physical Education Professional Internship	2
HLTH PE 4990 (p. 375)	Practicum II: Health and Physical Education, Grades PK-5	6
HLTH PE 4991 (p. 375)	Practicum II: Health and Physical Education Grades 5-9	6
PHY ED 3422 (p. 375)	Teaching Of Skills: Grades Pk-4	4
PHY ED 3423 (p. 375)	Teaching Of Skills: Grades 5-9	3
PHY ED 3425 (p. 375)	Teaching Skills: Movement, Dance, And Rhythms	3
Total Hours		76

Total: 121 hours

Grades K through 12 Emphasis Program Requirements

General education requirements are the same as for K-9

Level I: Exploring Education as a Profession

13 hours to be con	mpleted before advancement to Level II	
EDUC 1000 (p. 375)	Effective Career Decision Making for Educators	3
ED PSY 2212 (p. 375)	Introduction To Learners And Learning	3
TCH ED 2209 (p. 375)	Foundations of Teaching in American Schools	3
HLTH PE 3277 (p. 375)	Foundations of Health & Physical Education Programs	2
HLTH PE 3280 (p. 375)	Human Anatomy And Physiology	5

Level II: Analyzing the Nature and Process of Education

21 hours to be completed before enrollement in any Level III courses:

	21 nours to be cor	in any Level III courses:	
	ED PSY 3312 (p. 375)	Psychology of Learning, Instruction, and Assessment	3
	SPEC ED 3318 (p. 375)	Inclusive Classrooms	3
	TCH ED 4391 (p. 375)	Literacy for Adolescent Learners in Content Areas	3
	HLTH PE 3275 (p. 375)	Psychological Aspects Of Physical Education	3
	HLTH PE 3285 (p. 375)	Safety and Emergency Care for Health & Physical Education	3
	HLTH PE 3433 (p. 375)	Health Education Concepts and Skills	3
	PHY ED 3282 (p. 375)	Physical Growth And Motor Development	3
	PHY ED 3283 (p.	Kinesiology	3

373)		
9 hours can be tak	en concurrently with Level III courses:	
HLTH PE 3434	Teaching of Health and Wellness	4
(p. 375)		

PHY ED 3261 (p. 375)	Physical Activity For The Exceptional Learner	2
PHY ED 3468 (p. 375)	Curriculum And Methods Of Teaching Physical Education	3
Level III: Synthes	sizing Theory and Practice in Education	
The following Hea	Ith and Physical Education courses are required:	
HLTH PE 4989 (p. 375)	Physical Education Professional Internship	2
HLTH PE 4990 (p. 375)	Practicum II: Health and Physical Education, Grades PK-5	6
HLTH PE 4992 (p. 375)	Practicum II: Health and Physical Education Grades 9-12	6
PHY ED 3422 (p. 375)	Teaching Of Skills: Grades Pk-4	4
PHY ED 3423 (p. 375)	Teaching Of Skills: Grades 5-9	3
PHY ED 3424 (p. 375)	Teaching Of Skills: Grades 9-12	3
PHY ED 3425 (p. 375)	Teaching Skills: Movement, Dance, And Rhythms	3
Total Hours		76

Minimum 124 hours

Athletic Coaching Minor

An athletic coaching minor is available (minimum of 20 hours). The following courses are required:

Total Hours		6
PHY ED 5330	Prescribing Physical Activity ¹	
PHY ED 5312	Management of Sports Programs ¹	
PHY ED 3424 (p. 375)	Teaching Of Skills: Grades 9-12	3
PHY ED 3283 (p. 375)	Kinesiology	3

This course will not be offered in 2013-2014. Please contact the department for more information.

Health Certification

For those with a valid teaching certificate in Physical Education, courses are available to obtain and an additional endorsement in Health Education.

B.S. Degree in Secondary Education with an Emphasis in Science-Physics

All candidates must enroll in a program that includes levels I, II, and III course work in the College of Education. In addition, students must complete the following Science Core Courses and the courses listed under Physics Endorsement:

Science core courses

PHIL 3380 (p. 375)	Philosophy Of Science	3
BIOL 1831 (p. 375)	Introductory Biology: From Molecules To Organisms	5
BIOL 2102 (p. 375)	General Ecology (or another Environmental Science)	3

3

CHEM 1111 (p. 375)	Introductory Chemistry I	5
CHEM 1121 (p. 375)	Introductory Chemistry II	5
PHYSICS 2111 (p. 375)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 375)	Physics: Electricity, Magnetism, And Optics	5
GEOL 1001 (p. 375)	General Geology (or 1000 level ASTRON course))	4
or ATM SCI 1001 (p. 375)	Elementary Meteorology	
BIOL 1202 (p. 375)	Environmental Biology	3
Physics		
PHYSICS 1011 (p. 375)	Basic Physics 1	4
PHYSICS 1012 (p. 375)	Basic Physics II	4
Physics Endorsen	nent	
PHYSICS 3200 (p. 375)	Mathematical Methods Of Theoretical Physics	3
PHYSICS 3221 (p. 375)	Mechanics	3
PHYSICS 3223 (p. 375)	Electricity And Magnetism	3
PHYSICS 3231 (p. 375)	Introduction To Modern Physics I	3
PHYSICS 4310 (p. 375)	Modern Electronics	3
PHYSICS 4311 (p. 375)	Advanced Physics Laboratory I	3
SEC ED 3240 (p. 375)	Curriculum And Methods Of Teaching Physical Sciences	3
SEC ED 4837 (p. 375)	Chemistry/Physics Teaching Seminar	2
Total Hours		69

Graduate Studies

The M.Ed. program in Secondary Education has several areas of specialization: General, Curriculum and Instruction, Middle Level Education, Reading, and Teaching English to Speakers of Other Languages (TESOL). Students complete a core curriculum of five courses including a two course exit sequence that involves completing an independent Action Research project. Students develop a relevant area of specialization such as study in the academic teaching field, a technology emphasis, and/or character education or social justice coursework. Additionally, students may seek initial teacher certification while also studying for the M.Ed. A set of prescribed courses needed for certification fill the emphasis area. Various specializations are described in this section. A minimum of 33 credit hours is required.

Master of Education: Secondary Education

The M.Ed. general program is appropriate for secondary teachers, department chairpersons, and those who work in informal or international educational settings. Programs must be planned with the academic

advisor and meet the approval of the advisor. College of Education, and

Graduate School.	, and
Required Core	9
Students are required to complete the following courses within the 15 hours of study:	first
TCH ED 6010 (p. Examining History, Community And Social Justice 375) In Education	ce 3
TCH ED 6020 (p. Teacher Action, Advocacy And Leadership 375)	3
ED PSY 6030 (p. Instruction, Learning And Assessment 375)	3
Teaching Field Concentration	
SEC ED 6415 (p. The Secondary School Curriculum 375)	3
Additionally, students should select at least nine hours in their teaching field (mathematics; chemistry; biology; physics; social studies; English; physical education; speech and theatre; education technology or other) or in secondary education, as identified in consultation with the faculty advisor.	9 nal
Specialization Areas (Optional) 1	6

An interest in a specialization may develop during one of the core courses such as:

Educational Technology Option

ED TECH 5340 Selection And Utilization Of Educational Multimedia (p. 375) and Educational Multimedia Design 3 & ED TECH 64 (p. 375)

ED TECH 6452 Educational Multimedia Design 3 (p. 375)

Educational Psychology Option

ED PSY 6210 Life-Span: Individual and Family Development (p. 375)

or ED PSY 6448 echnology-Supported Inquiry Learning (p. 375)

or ED TECH 644% chnology-Supported Inquiry Learning (p. 375)

Select one of the following:

ED PSY 6215 Psychology Of Early Childhood Development (p. 375)

ED PSY 6220 Psychology Of The Elementary School Child (p. 375)

ED PSY 6225 The Psychology Of Adolescence (p. 375)

Teaching of Writing Option

TCH ED 5850 Topics In The Teaching Of Writing (p. 375) and Seminar In Professional Writing For & TCH ED 6890eachers (p. 375) or TCH ED 688@ateway Writing Project

(p. 375) **Required Research Course**

TCH ED 6909 (p. Teacher Action Research I (Take semester prior 375) to Teacher Action Research Capstone, TCH ED 6910.)

Action Research Capstone Course

TCH ED 6910 (p. Teacher Action Research Capstone ² 375)

Total Hours 45

- Other specialization areas are available and information is available in the Office of Advising and Student Services (OASIS).
- ² This course not offered in summer sessions.
- The prerequisite for this course is ED PSY 6030 (p. 375).
- Other specialization areas are available and information is available in the Office of Advising and Student Services (OASIS).
- 2 This course not offered in summer sessions.
- The prerequisite for this course is ED PSY 6030.

Master of Education: Secondary Education with Emphasis in Curriculum and Instruction

The M.Ed. with an emphasis in curriculum and instruction is designed for graduate students who wish to further their competencies as teacher or curriculum specialist or instructional leaders.

Required Core requirements

Students are required to complete the following courses within the first 15 hours of study

TCH ED 6010 (p. Examining History, Community And Social Justice 375) In Education

TCH ED 6020 (p. Teacher Action, Advocacy And Leadership 375)

ED PSY 6030 (p. Instruction, Learning And Assessment 375)

Curriculum and Instruction Core

SEC ED 6415 (p. The Secondary School Curriculum 375)

SEC ED 6416 (p. Curriculum Construction For Secondary Schools 375)

SEC ED 6420 (p. The Improvement Of Secondary School Teaching 375)

Specialization Areas (Optional)

Same as above

Electives

Total Hours

Students can elect hours in their teaching field or other areas such as: Character Education, Assessment, or Problems courses.

Required Research Course

TCH ED 6909 (p. Teacher Action Research I (Take semester prior to Teacher Action Research Capstone, TCH ED 6910.)

Action Research Capstone Course

Students must enroll in ther capstone course during their last semester and after completing Teacher Research. TCH ED 6909 (p. 375).

TCH ED 6910 (p. Teacher Action Research Capstone ¹ 375)

¹ This course is not offered in summer sessions.

¹ This course is not offered in summer sessions.

Master of Education: Secondary Education with Emphasis in Middle Level Education

The M.Ed. with an emphasis in middle level education is designed for graduate students who would like to further their competencies as a middle level educator.

Required Core Requirements

Students are required to complete the following courses within the first 15 hours of study:

TCH ED 6010 (p. Examining History, Community And Social Justice 375) In Education

TCH ED 6020 (p. Teacher Action, Advocacy And Leadership 375)

ED PSY 6030 (p. Instruction, Learning And Assessment 375)

Middle Level Education Core

3

3

3

3

3

3

6

3

Students should select a curriculum course and at least 9 hours from the following:

are remember	
ED ADM 6303 (p. Middle School Administration 375)	3
ED ADM 6315 (p. Middle School Educational Philosophy 375)	3
ED ADM 6317 (p. Supervision And The Middle School Child 375)	3
ED PSY 6225 (p. The Psychology Of Adolescence 375)	3
Specialization Areas (Optional)	6
Same as above	
Electives	3-6
Requireed Research Course	
TCH ED 6909 (p. Teacher Action Research I	3

Take semester prior to Teacher Action Research Capstone, TCH ED 6910 (p. 375).

Action Research Capstone Course

Students must enroll in the capstone course during their last semester and after completing TCH ED 6909 (p. 375), Teacher Action Research.

TCH ED 6910 (p. Teacher Action Research Capstone ¹ 375)

Total Hours 36-39

- ¹ This course is not offered in summer sessions.
- 1 This course is not offered in summer sessions.

Master of Education: Secondary Education with Emphasis in Reading

The M.Ed. program with emphasis in reading (literacy) is designed to enable candidates to further their competencies as teachers of reading, writing and other communication arts. The program also prepares them for positions as literacy coaches, reading specialists, curriculum specialist in communication arts and reading areas, consultants in areas of communication arts, and/or for further graduate study. The following program enables the student to earn a M.Ed. with an emphasis in Reading while fulfilling the Department of Elementary and Secondary Education's

requirements for special reading certification in Missouri. A course in reading in the content area is required for secondary certification. If this has not been taken as an undergraduate, it must be selected as an elective in the program for a Masters in Secondary Education with a Reading Emphasis. The minimum required and recommended courses are as follows:

Required Core requirements

Students are requi 15 hours of study:	ired to complete the following courses within the first	
TCH ED 6010 (p. 375)	Examining History, Community And Social Justice In Education	3
TCH ED 6020 (p. 375)	Teacher Action, Advocacy And Leadership	3

Required Research Course - Evaluation of Abilities and Achievement

ED PSY 6030 (p. Instruction, Learning And Assessment

Select one of the following:

ED REM 6707 Classroom Measurement And Evaluation (p. 375)

ED REM 6709 Educational And Psychological Measurement (p. 375)

ED REM 6716 Academic Assessment and Intervention (p. 375)

Reading Concentration

ELE ED 6684 (p. 375)	Instructional Strategies For Teaching Reading	3
ELE ED 6686 (p. 375)	Analysis And Correction Of Reading Disabilities	3
SEC ED 6387 (p. 375)	Literacy Acquisition And Learning For Urban Students	3
SEC ED 6493 (p. 375)	Reading Specialist Practicum I	3
SEC ED 6494 (p. 375)	Reading Specialist Practicum II	3
And at least one c	ourse from the literacy-related elective list or from	3

Literacy Related Electives include:

the certification-related elective list below:

ELE ED 6436 (p. 375)	Children's Literature I: Survey And Analysis
ELE ED 6688 (p. 375)	Literacy Assessment To Guide Instruction
ENGL/TCH ED 6880 (p. 375)	Gateway Writing Project
TCH ED 4391 (p. 375)	Literacy for Adolescent Learners in Content Areas

One course needed to complete certification ¹

;	ertification Related Electives include:		
	CNS ED 3220 (p. 375)	Counseling Individuals With Special Needs	
	ED PSY 6220 (p. 375)	Psychology Of The Elementary School Child	
	ED PSY 6225 (p. 375)	The Psychology Of Adolescence	

ED REM 6707 Classroom Measurement And Evaluation (p. 375)

ED REM 6709 Educational And Psychological Measurement

SPEC ED 4315 Speech And Language Of Exceptional Children

Capstone Course

3

3

SEC ED 6482 (p.	Problems And Research In Teaching Secondary	3
375)	Reading	
Total Hours		33

To be recommended for Missouri Department of Elementary and Secondary Education special reading certification, teachers must have a valid Missouri teacher's certificate and two years of classroom teaching experience, and they must have had the following at either the undergraduate or graduate level: two additional courses in reading; language acquisition or development; classroom management techniques; counseling techniques (to include exceptional children and their families: child AND adolescent psychology; and testing, evaluation, and achievement. These certification requirements might be in addition to the courses listed in the program of study above. See your graduate advisor for information about these courses. M.Ed. Students needing any of the above can elect to take these courses at the graduate level where available and apply them to their concentration area.

Note: Only one 4000 level course can be applied to the M.Ed.

Master of Education: Secondary Education with Emphasis in Teaching English to Speakers of Others Languages (TESOL)

The M.Ed. program with emphasis in TESOL is designed to meet the need for teachers who can apply knowledge about language learning to their culturally and linguistically diverse classrooms. This program meets the requirements for a Missouri Department of Elementary and Secondary Education Teaching endorsement in English to Speakers of Other Languages (ESOL).

Required Core

Students are requi 15 hours of study:	ired to complete the following courses within the first	
TCH ED 6010 (p. 375)	Examining History, Community And Social Justice In Education	3
TCH ED 6020 (p. 375)	Teacher Action, Advocacy And Leadership	3
ED PSY 6030 (p. 375)	Instruction, Learning And Assessment	3
TESOL Core		
TCH ED 6210 (p. 375)	Foundations Of Teaching English To Speakers Of Other Languages	3
TCH ED 6220 (p. 375)	Principles Of Second/Foreign Language Acquisition	3
TCH ED 6230 (p. 375)	Cross-Cultural Communication In The Classroom	3
TCH ED 6240 (p. 375)	Assessment for Teaching English to Speakers of Other Languages	3
TCH ED 6250 (p. 375)	Methods and Materials for Teaching English to Speakers of Other Languages	3

	TCH ED 6260 (p. 375)	Practicum in Teaching English to Speakers of Other Languages	3
	Required Resear	ch Course	
	TCH ED 6909 (p. 375)	Teacher Action Research I (Take semester prior to Teacher Action Research Capstone, TCH ED 6910.)	3
	Action Research	Capstone Course	
		roll in the capstone course during their last semester ng TCH ED 6909 (p. 375), Teacher Action	
	TCH ED 6910 (p. 375)	Teacher Action Research Capstone ¹	3
	Total Hours		33

This course is not offered in summer sessions.

Master of Education: Elementary or Secondary Education with Physical Education as Teaching Field

A significant number of graduate students choose physical Education as the teaching field within one of the master of Education degree options. Most are currently employed as teachers of health and/or physical Education. Certification requirements in Missouri mandate the completion of a master's degree to professionalize the certificate. Therefore, a full complement of graduate courses relating to teaching in physical Education is available to meet this need. For many who need to pursue teacher certification in physical Education while pursuing the master's degree, most course work needed to meet state certification requirements can be taken in the master's program. For those employed outside Education, an emphasis in exercise science is also available, providing a foundation of course work designed to prepare a person in this area. Specific information is available regarding each of these degree programs. Please consult with your graduate adviser to discuss the specific options and requirements.

Master of Education: Secondary Education and Certification

Those holding a baccalaureate degree or major in the teaching field who would like to pursue initial teacher preparation and a Master's degree, can take the following program. The exact number of hours depends upon hours needed by the student to meet certification requirements in the chosen teaching field.

Required Teacher Certification Courses at the Graduate Level

TCH ED 5311 (p. 375)	Foundations Of Education	
TCH ED 5310 (p. 375)	Instructional Design	
TCH ED 5312 (p. 375)	Differentiated Instruction	
ED PSY 6109 (p. 375)	Learning And Development In Secondary School Settings	
Required Teache Level	er Certification Courses at the Undergraduate	19-21
These courses are	e not applicable to the Master's degree:	
SEC ED 4xxx	Curriculum and Methods of Teaching	3

SEC ED 4989 (p. 375)	Practicum I: Site Based Experience	
SEC ED 4990 (p. 375)	Practicum II: Site Based Experience	
SEC ED 4xxx	Student Teaching Seminar	1-3
Elective		3
Master of Educat	tion Required Core Courses	
Students should of enrolling in the following in the following in the following the students of the students o	omplete initial teacher certification courses before lowing:	
TCH ED 6010 (p. 375)	Examining History, Community And Social Justice In Education	3
TCH ED 6020 (p. 375)	Teacher Action, Advocacy And Leadership	3
ED PSY 6030 (p. 375)	Instruction, Learning And Assessment	3
Required Resear	ch Course	
TCH ED 6909 (p. 375)	Teacher Action Research I	3
Take semester pri TCH ED 6910 (p.	ior to Teacher Action Research Capstone, 375).	
Capstone Course	e	
	roll in the capstone course during their last semester ng Teacher Action Research TCH ED 6909 (p.	
TCH ED 6910 (p. 375)	Teacher Action Research Capstone ¹	3
Total Hours		56-6

¹ This course is not offered in summer sessions.

Total minimum 33 graduate hours.

Graduate Certificate in Secondary School Teaching

The Graduate Certificate in Secondary School Teaching prepares those with at least a bachelor's degree for teaching in high school. Normally this Graduate Certificate is taken by students who are not simultaneously pursuing the M.Ed. and teacher certification.

Admission

Applicants must meet the university's academic requirements in their teaching field and consult a Graduate Certificate in Secondary School Teaching faculty advisor to design their programs of study. In addition, applicants meet with an advisor in the Office of Graduate Education to learn about prerequisites, checkpoints, assessments, and other requirements that may be set by the state or the university. An overall GPA of at least 2.75 is required for admission to the Graduate School.

Requirements:

Graduate Level Certification Courses

TCH ED 5311 (p. 375)	Foundations Of Education	4
ED PSY 6109 (p. 375)	Learning And Development In Secondary School Settings	4
TCH ED 5310 (p. 375)	Instructional Design	3

TCH ED 5312 (p. Differentiated Instruction 375)	4
Elective	3
Students pursuing a Teaching Certificate in Missouri need to complete the Professional Experience Courses at the undergraduate level which are not part of the Graduate Certificate hours	
SEC ED A&S/ Curriculum and Methods of Teaching [Subject area] FAC 4xxx	3
SEC ED 4989 (p. Practicum I: Site Based Experience 375)	3
SEC ED 4990 (p. Practicum II: Site Based Experience 375)	12
SEC ED 4xxx, or 5XXX [Subject Area], Teaching Seminar	1-3

Total minimum 18 graduate hours.

Graduate Certificate in Teaching English to Speakers of Other Languages

The graduate certificate in Teaching English to Speakers of Other Languages (TESOL) is intended for individuals with a bachelor's degree who would like to advance their knowledge about language learning in culturally and linguistically diverse classrooms. The program is a combination of theory and practice, covering the key concepts, issues and innovative strategies required to apply this knowledge. Students may seek this Graduate Certificate simultaneously with the M.Ed. in Secondary Education with a specialization in TESOL.

Admission

Applicants who wish to earn a Graduate Certificate in TESOL must apply for admission to the certificate program and to the Graduate School at the University of Missouri –St. Louis as a non-degree student or as a Master's or doctoral student. Applicants must have a 2.75 GPA in undergraduate coursework to be admitted. A background in K-12 or adult education is desirable.

Requirements

Students must maintain a minimum GPA of 3.0 to remain in the certificate program. The certificate is awarded after completion of the courses listed below. A program of study, or M-1, should be filed in the first one-third of the program. Students should file an Intent to Complete a Graduate Certificate at the beginning of their last semester. The Graduate Certificate in TESOL requires 18 credit hours of course work, including an entry course (TCH ED 6210 (p. 375)):

TCH ED 6210 (p. 375)	Foundations Of Teaching English To Speakers Of Other Languages	3
TCH ED 6220 (p. 375)	Principles Of Second/Foreign Language Acquisition	3
TCH ED 6230 (p. 375)	Cross-Cultural Communication In The Classroom	3
TCH ED 6240 (p. 375)	Assessment for Teaching English to Speakers of Other Languages	3
TCH ED 6250 (p. 375)	Methods and Materials for Teaching English to Speakers of Other Languages	3
TCH ED 6260 (p. 375)	Practicum in Teaching English to Speakers of Other Languages	3
Total Hours		18

Graduate Certificate in the Teaching of Writing, Gateway Writing Project

Jointly housed in the Division of Teaching and Learning and the Department of English, this Graduate Certificate prepares teachers at all levels (K-12, college, adult) to improve their students' performance in writing. The program also emphasizes using writing as a means to promote learning in all content areas. All courses provide opportunities for teachers to write, revise, share feedback, and reflect on their own writing development. Based on the National Writing Project's core belief that teachers of writing must themselves be writers, the Graduate Certificate in the Teaching of Writing brings together sound pedagogy, composition theory, and writing practice.

The Certificate is an 18-hour program through the Gateway Writing Project (GWP); it may also be coordinated with other graduate programs. Certificate courses may be applicable to the M.A. in English with emphasis in composition or to various M.Ed. programs. The GWP Certificate is especially appropriate for post-master's candidates who wish to pursue a specialization in teaching writing. The Graduate Certificate in the Teaching of Writing requires a 12 semester-hour core of courses developed by the Gateway Writing Project: The GWP invitational institute (6 hrs), a designated "topics" course (3 hrs.), and an exit course (3 hrs.). The Certificate requires a minimum of 12 semester hours at the 5000 or 6000 level or above. Electives (6 semester hours) may be chosen from approved offerings in English or Education.

Admission

Applicants must be admitted to Graduate School and be selected by the faculty admissions committee for the Gateway Writing Project's Certificate in the Teaching of Writing. The committee will review candidates on the basis of an interview, an application essay, and supporting documentation. Criteria include experience teaching writing at any level and academic record, especially in writing and the teaching of writing.

Prerequisites:

ENGL 4880/SEC ED 4880, "Writing for Teachers" or an equivalent course in teaching writing.

Coursework or competency in basic computer application.

Required Core Courses (12 semester hours)

ENGL 4850/ TCH ED 5850	Topics In The Teaching Of Writing	1-3
ENGL/TCH ED 6880	Gateway Writing Project	3-6
TCH ED 6890	Seminar In Professional Writing For Teachers	3
Electives		6

Electives may be chosen from other Gateway Writing Project offerings or from courses offered by the appropriate academic department with advisor's approval. These electives must include at least one more 5000-6000 level course.

Suggested electives applicable to an MA in English with writing emphasis

ENGL 5800	Modern Linguistics
ENGL 5840	Theories Of Writing
ENGL 5860	Writing/Reading Theory
ENGL 5860	Writing/Reading Theory
ENGL 5890	Teaching College Writing

Suggested electives applicable to an M.Ed. in Elementary or Secondary Education

ED REM 6714 Action Research In Education

ELE ED 6387 Literacy Acquisition And Learning For Diverse

Students

ELE ED 6482 Problems And Research In Teaching Elementary

School

Courses in adult and higher education may also be appropriate

For complete information, see The Gateway Writing Project's Graduate Certificate in Teaching Writing,

Health and Physical Education Courses

HLTH PE 3275 Psychological Aspects Of Physical Education: 3 semester hours

Prequisite: PSYCH 1003. A study of the psychological processes underlying the learning and performance of motor skills and participation in physical activity. Covers how humans learn skilled actions, how principles of motor performance and learning can be applied to teaching, and how teachers can create positive motivational climates.

HLTH PE 3277 Foundations of Health & Physical Education Programs: 2 semester hours

Prerequisites: Junior standing. A study of the historical, philosophical, and cultural influences and issues related to health education and physical education programs.

HLTH PE 3280 Human Anatomy And Physiology: 5 semester hours
Prerequisite: BIOL 1012 and BIOL 1013 or consent of instructor, Junior
standing. Study of the basic aspects of human anatomy and physiology
and their relationship to concepts in sport and physical activity. Two hours
laboratory per week.

HLTH PE 3284 Physiology Of Human Exercise: 3 semester hoursPrerequisite: HLTH PE 3280. Study of the physiological effects of human exercise, training, and sport activities upon the human body; emphasis also given to factors of work, fatigue, nutrition, gender, and environment.

HLTH PE 3285 Safety and Emergency Care for Health & Physical Education: 3 semester hours

Prerequisites: HLTH PE 3280 or equivalent. A study of safety issues relating to health and physical education, including prevention and treatment of physical activity-related injuries. Emphasis will be given to emergency responses, including CPR certification.

HLTH PE 3432 Teaching Health and Physical Education in the Elementary School: 4 semester hours

Prerequisites: Admission to the Teacher Education Program. A study of health and physical education programs in the elementary school. Emphasis is given to the teacher's roles and responsibilities as they relate to the content and services found in the coordinated school health program.

HLTH PE 3433 Health Education Concepts and Skills: 3 semester hours

Prerequisites: Junior Standing. A study of health concepts and lifestyle skills found in K-12 health education strands, including mental health, sexuality education, drug education, nutrition, personal health and disease prevention.

HLTH PE 3434 Teaching of Health and Wellness: 4 semester hours

Prerequisites: HLTH PE 3280 or the equivalent, or consent of the instructor. Study of concepts and issues related to health and active lifestyle behavior development, with emphasis given to the design and preparation of appropriate instructional experiences and techniques.

HLTH PE 4989 Physical Education Professional Internship: 2 semester hours

Prerequisites: Level II designated course requirements. This course is an intensive professional development experience (equivalent of 6 hours per week for 14 weeks) working in a school setting with students. Activities on site include assisting the health and physical education teacher in all areas of instruction, assessment, and classroom management. This course is to be taken prior to student teaching, ideally during the semester immediately preceding student teaching. Assignments from allied courses (PHY ED 3422, PHY ED 3423, PHY ED 3424, PHY ED 3434) are carried out in the Internship, and Internship experiences inform the activities and discussions in these courses. Not available for graduate credit.

HLTH PE 4990 Practicum II: Health and Physical Education, Grades PK-5: 6 semester hours

Prerequisites: HLTH PE 4989. Clinical teaching experience in physical education settings in the schools under university and school supervision. Required for all majors in physical education receiving certification in Health and Physical education. Not available for graduate credit.

HLTH PE 4991 Practicum II: Health and Physical Education Grades 5-9: 6 semester hours

Prerequisites: HLTH PE 4989. Clinical teaching experiences in Health and Physical Education settings in schools under university and school supervision. Required of all majors in Physical Education receiving certification in Health Education and Physical Education, K-9. Not available for graduate credit.

HLTH PE 4992 Practicum II: Health and Physical Education Grades 9-12: 6 semester hours

Prerequisites: HLTH PE 4989. Clinical teaching experience in Health and Physical Education settings in schools under university and school supervision. Required of all majors in Physical Education receiving certification in Health Education and Physical Education, K-12. Not available for graduate credit.

Physical Education Courses

PHY ED 1124 Principles & Practice In 1St Aid & Cardiopulmonary Resuscitation: 1 semester hour

The course provides theory and supervised practice in first aid and cardiopulmonary resuscitation leading to American Red Cross certification in those areas.

PHY ED 2134 Personal Physical Fitness: 3 semester hours

Prerequisite: Consent of instructor. A study of the relationship between vigorous physical activity and individual well-being. Emphasis will be placed on an individualized analysis of health fitness, resulting in a prescribed program to develop optimal levels of physical fitness, including aerobic fitness, strength, muscular endurance, flexibility, body composition, and lifetime sports considerations.

PHY ED 3204 Special Topics In Physical Education: 1-3 semester hours

Prerequisite: Consent of instructor. Independent study through readings, reports, field study or research.

PHY ED 3261 Physical Activity For The Exceptional Learner: 2 semester hours

Prerequisite: SPEC ED 3311 and SPEC ED 3313. A study of the special physical activity and exercise needs, interests, and problems of the exceptional learner, with considerable emphasis on the development of methods and competencies, in modifying physical activities.

PHY ED 3276 Sociological Aspects Of Physical Education And Sport: 2 semester hours

Study of the theoretical, methodological, experimental, and applied foundations of sport and physical activity programs in society and the schools. Applied issues include cultural, political, economical, legal, and educational aspects of sport and physical activity programs.

PHY ED 3282 Physical Growth And Motor Development: 3 semester hours

Prerequisite: PSYCH 2270 and PHY ED 3465. An examination of the physical growth and aging, and motor development of the human being over the life span. Emphasis on evaluative tools, techniques and studies of research findings. Laboratory field experience for observing individuals. Attention Is directed toward acquisition of basic skills, perceptual-motor development, fitness development, and age-related changes in information processing. A Required course for Physical Education majors; an elective course for early childhood, special, and Elementary Education majors.

PHY ED 3283 Kinesiology: 3 semester hours

Prerequisite: HLTH PE 3280 and math proficiency. Study of the biomechanics of human motion with particular application to performance in sport activities.

PHY ED 3401 Teaching Physical Education Skills I: 2 semester hours

The study of skill analysis and techniques of teaching specific physical activities selected in Physical Education 3403. Particular emphasis will be given to biomechanical analysis of movement, application of concepts of motor learning, and organization and management of instructional settings. Must be taken concurrently with four of the Physical Education 3403 laboratory sections.

PHY ED 3402 Teaching Physical Education Skills II: 2 semester hours

A continuation of PHY ED 3401 with emphasis on the planning and teaching processes. Students will have opportunities to micro-teach, peerteach, and video tape. To be taken concurrently with four of the PHY ED 3403 laboratory sections.

PHY ED 3403 Analysis And Teaching Of Physical Activities Laboratory: 1 semester hour

The study and performance of physical activities. Emphasis will be given to skill analysis, drills, strategy, rules, materials and teaching of the various activities. Registration in four laboratory sections is required. Must be taken concurrently with PHY ED 3401 or PHY ED 3402.

PHY ED 3422 Teaching Of Skills: Grades Pk-4: 4 semester hours

Prerequisites: Completion of 15 hours of level II courses. Study of developmental movement activities and appropriate learning experiences found in PK-4 grade level programs, with emphasis on developmental sequencing and the design of appropriate learning activities, materials, and effective pedagogical skills.

PHY ED 3423 Teaching Of Skills: Grades 5-9: 3 semester hours

Prerequisites: Completion of 15 hours of Level II courses. Study of sports and physical activities commonly found in the curriculum for grades 5-9, with emphasis on critical cues analysis, developmental sequencing, and the design of appropriate learning activities, materials, and pedagogical skills.

PHY ED 3424 Teaching Of Skills: Grades 9-12: 3 semester hours

Prerequisites: Completion of 15 hours of Level II courses. Study of sport and physical activities predominately found in physical education programs at these grade levels, with emphasis given to critical cue analysis, developmental sequencing, and the design of appropriate learning activities, materials, and pedagogical skills.

PHY ED 3425 Teaching Skills: Movement, Dance, And Rhythms: 3 semester hours

Prerequisites: Completion of 15 credit hrs of Level II courses. Study of movement analysis and techniques of teaching fundamental movement skills, rhythmic activities, creative movement, and dance forms commonly taught in school settings. Emphasis will be given to developmental sequencing and the design of appropriate learning activities, materials, and pedagogical skills.

PHY ED 3465 Physical Education Activities In The Elementary School: 3 semester hours

Objectives of physical education for the elementary school child with applications of choice of activities, organization of program, theory, practices.

PHY ED 3468 Curriculum And Methods Of Teaching Physical Education: 3 semester hours

Prerequisite: PHY ED 101 or SEC ED 3213. Study of the scope and sequence of the school program in physical education with emphasis on planning processes, content selection, management procedures, instructional strategies, and program assessment.

PHY ED 5248 Teaching Health In The Secondary School: Grades 9-12: 3 semester hours

Prerequisites: TCH ED 2211 or equivalent, junior or graduate standing, or permission of the instructor. A study of the methods for health education in the secondary school. This class will examine the instructional program, ways to provide a healthful environment in the school, and health services for the high school student.

PHY ED 5380 Nutrition For Human Performance: 3 semester hours

A study of human nutrition and its relationship to human performance. Consideration is given to nutrients - function, food source, health concerns and implications energy intake and expenditure; special considerations - body composition including weight gain and loss ergogenic aides competitive athletes, older adults, children and teens, pregnant women, disease risk, fluid and electrolyte balance, and specific sport activities.

PHY ED 6404 Seminar In Physical Education: 1-3 semester hours

Prerequisites: Graduate Standing Seminar in health and physical education addressing special topics not normally included in the regular health and physical education courses. May be repeated up to ten hours.

PHY ED 6462 The Physical Education Curriculum: 3 semester hours

Prerequisite: Consent of instructor. A study of current practices, problems, trends and research involved in the analysis and development of the physical education curriculum.

PHY ED 6464 Analysis Of Teaching In Physical Education: 3 semester hours

Prerequisite: Consent of instructor. A study of trends and research relating to teaching methodology, teacher effectiveness, and supervision of instruction in physical education. Emphasis will be given to the application of research on teacher effectiveness in the instructional process in physical education.

PHY ED 6478 Problems And Research In Physical Education: 3 semester hours

A study of potential research problems and research processes in specific physical education subdisciplines. A research project will be completed in the student's physical education subdiscipline interest area.

PHY ED 6482 Life Span Perceptual And Motor Development: 3 semester hours

Prerequisite: PHY ED 3282 or consent of instructor. A study of sensory and perceptual development and change, and the age-related qualitative and quantitative changes in motor skill. Both current theory and current empirical findings are stressed. Attention is given to methods of structuring learning environments to maximize development. Study is from a life span perspective.

PHY ED 6497 Problems: 1-10 semester hours

Selected problems to meet the needs of individual students.

PHY ED 7492 Directed Readings In Curriculum And Instruction: 1-6 semester hours

Prerequisites: Graduate Standing, one graduate course in Curriculum and Instruction, and permission of the instructor. Independent study into the current research, literature, and issues in the areas of physical education curriculum and instruction.

PHY ED 7494 Directed Readings In Motor Behavior: 1-6 semester hours

Prerequisites: Graduate standing, one graduate course in motor behavior, and permission of the instructor. Independent study into the current research, literature, and issues in the area of motor behavior.

Secondary Education Courses

SEC ED 3204 Seminar: Business Education Student Teaching: 1 semester hour

Prerequisites: Completion of all required courses in major and/or certification emphasis. To be taken concurrently with student teaching. Application of theory, methods, and techniques to the teaching of business subjects in grades 7-12.

SEC ED 3240 Curriculum And Methods Of Teaching Physical Sciences: 3 semester hours

Prerequisites: TCH ED 3310 or TCH ED 5310 and a near major in the subject area. A study of the scope and sequence of the physical science courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of science. To be taken concurrently with Practicum I. This course must be completed in residence.

SEC ED 4011 The Curriculum And Methods Of Teaching History And Social Studies: 3 semester hours

Prerequisites: Admission to the Teacher Education Program and completion of all Level II courses. Must be taken concurrently with SEC ED 4989. A study of the scope and sequence of history and social studies courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. May not count toward history hours required for history major. Must be completed prior to student teaching. This course must be completed in residence. Not available for graduate credit.

SEC ED 4012 Social Studies Teaching Seminar: 1 semester hour

Prerequisites: SEC ED 4989. Must be taken concurrently with student teaching. Addresses the application of teaching strategies and instructional technology in the classroom setting. Offered concurrently with Secondary School Student Teaching, SEC ED 4990. Not available for graduate credit.

SEC ED 4013 United States History For The Secondary Classroom: 3 semester hours

Prerequisites: Admission to the Teacher Education Program. TCH ED 3310 or consent of the instructor. This course is required for Social Studies certification. Adapts the themes and subject matter of American history to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of American history, on expanding bibliography, and on choosing methods of inquiry for use in an interactive classroom. Cannot be counted towards the minimum 39-hour history major requirement, but can be counted towards the 45 hour maximum and for Social Studies certification. Not available for graduate credit.

SEC ED 4090 American Government For The Secondary Classroom: 3 semester hours

Same as POL SCI 4090. Prerequisites: POL SCI 4090/ SEC ED 4090 must be taken concurrently with SEC ED 4011 except with special consent of the School Studies Coordinator. Adapts the themes and subject matter of American Government to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting methods of inquiry for use in an interactive classroom. Can be counted towards the Political Science major requirement, but not the American Politics subgroup. Counts towards Social Studies certification. Not available for graduate credit.

SEC ED 4312 Secondary School Curriculum: 3 semester hoursPrerequisite: Secondary Education 213. Sources, scope and organization

Prerequisite: Secondary Education 213. Sources, scope and organization of the curriculum, modern trends and methods of investigation.

SEC ED 4320 Classroom Management: 3 semester hours

Same as SPEC ED 4320, ECH ED 4320, ELE ED 4320. Prerequisites: Level I and II courses or consent of instructor. Understanding classroom management as the development of engaging instruction that establishes healthy and culturally appropriate teacher-student relationships, builds successful classroom community and enhances student learning. Participants develop a culturally relevant classroom management plan that includes rules, procedures, expected behaviors and uses problem solving strategies to resolve behavior problems. Emphasis is on the teacher developing the social competence of Pre K-12 students within culturally diverse classrooms and engaging families in supportive interactions.

SEC ED 4589 Curriculum And Methods Of Teaching Foreign Languages: 3 semester hours

Same as FGN LANG 4589. Prerequisites: TCH ED 3310 or TCH ED 5310 and passing the departmental language skill test. A study of the scope and sequence of the foreign language courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of foreign language. To be taken prior to student teaching. This course must be completed in residence. Not available for graduate credit.

SEC ED 4590 Foreign Language Teaching Seminar: 2 semester hours

Same as FGN LANG 4589. Prerequisite: Concurrent enrollment in SEC ED 4990 or consent of instructor. A practicum course in the teaching of foreign languages. Review and explanation of drills, dialogues, and a variety of classroom techniques, oral and written. A continuation of SEC ED 4589, Curriculum & Methods, with an emphasis on specific practical skills. To be taken concurrently with SEC ED 4990, Student Teaching. Not available for graduate credit.

SEC ED 4646 The Curriculum And Methods Of Teaching Math: 3 semester hours

Prerequisites: Admission to the Teacher Education Program and completion of all Level II courses. Must be taken concurrently with SEC ED 4989. A study of the scope and sequence of the mathematics courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of mathematics. To be taken prior to student teaching. This course must be completed in residence. Not available for graduate credit.

SEC ED 4648 Mathematics Teaching Seminar: 2 semester hours
Prerequisites: SEC ED 4989. Must be taken concurrently with SEC ED
4990. A seminar in the integration of mathematics curricula, Educational
philosophy, teaching strategies, and instructional technology in the
classroom setting. Not available for graduate credit.

SEC ED 4837 Chemistry/Physics Teaching Seminar: 2 semester hours

Prerequisites: SEC ED 3240 and SEC ED 4989. A seminar to accompany practice teaching covering integration of physical science curricula and methods into the classroom setting. To be taken concurrently with SEC ED 4990. Two-hour discussion per week.

SEC ED 4880 Writing For Teachers: 3 semester hours

Prerequisite: ENGL 3090 or junior level English. Same as ENGL 4880. Writing for Teachers is an English-education course that supports writing across the curriculum for both pre-service English and content area teachers. Teacher candidates learn writing theories and literacy strategies to help their future students construct meaning from their discipline. The course works best for those who are completing level II or beginning level III education courses. The course counts toward the Certificate in Writing.

SEC ED 4885 The Curriculum And Methods Of Teaching English: 3 semester hours

Prerequisites: Completion of Level II education courses and a near major in English. A study of the scope and sequence of the English courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course prepares students for reflective teaching by relating course readings to field experiences and theory to practice. To be taken prior to student teaching and concurrently with Practicum I, SEC ED 4989.

SEC ED 4886 The Curriculum and Methods of Teaching Speech and Theatre: 3 semester hours

Same as TH DAN 4886. Prerequisites: TCH ED 3310 or TCH ED 5310; students must be within three hours of completing a major in either Communications or Theatre, with 15-18 hours completed in the other subject area. A study in the scope and sequence of the Speech and Theatre courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course prepares students for reflective teaching teaching by relating course readings to field experience and theory to practice. To be taken prior to student teaching and concurrently with SEC ED 4989; Secondary Education Professional Internship. This course must be completed in residence. Not available for graduate credit.

SEC ED 4888 English Teaching Seminar: 2 semester hours

Prerequisites: SEC ED 4885 and a near major in the subject area. A seminar in the integration of English curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with Practicum II SEC ED 4990. Not available for graduate credit.

SEC ED 4985 Curriculum And Methods Of Teaching Life Sciences: 4 semester hours

Prerequisites: TCH ED 3310 or TCH ED 5310 and a near major in biology. A study of the scope and sequence of the life science courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. The analysis of teaching/learning and field experience observations in secondary school classrooms will be integrated into classroom activities and discussions. Take concurrently with SEC ED 4989. This course must be completed in residence.

SEC ED 4986 Laboratory In Teaching Life Sciences: 2 semester hours

Prerequisite: TCH ED 3310. Discussion, development, utilization, and evaluation of equipment, materials, and techniques applicable to instruction in the life sciences.

SEC ED 4989 Practicum I: Site Based Experience: 3 semester hours

Prerequisites: Level I & II requirements. This course is an intensive professional development experience (1 day per week for 14 weeks) working in a school setting. Activities on site include assisting the classroom teaching in all areas of instruction, assessment, and classroom management. This course is to be taken during the semester immediately preceding Practicum II (student teaching). This course must be taken in conjunction with methods of instruction course in specific content area. Assignments from the methods course(s) may be completed in the Practicum setting, and experiences in the school guide the methods course activities and discussions. Not available for graduate credit.

SEC ED 4990 Practicum II: Site Based Experience: 12 semester hours

Prerequisites: SEC ED 4989 and appropriate curriculum and methods course in the teaching field. Teacher candidates spend time in schools engaged in various capacities to improve student learning within small group instruction, whole class teaching, lesson planning and special programs to demonstrate proficiency on all MoSPE standards. Not available for graduate credit.

SEC ED 4993 Student Teaching In Music K-6: 6 semester hours

Prerequisites: Level I and Level II Education Courses. *MUS ED 3570, *MUSIC ED 3670/ SEC ED 3670, PRACTM 2180. *MUS ED 3680 *MUS ED 3700 (Instrumental emphasis majors); MUS ED 3290, *MUS ED 3690 / SEC ED 3690, *MUS ED 3710(Choral/Vocal emphasis majors); and admission to student teaching. Must be taken "in block" with SEC ED 3294 and must immediately precede it in the semester. Clinical teaching experience in music education settings in the schools under university and school supervision with seminar included. Required of all majors in music education. *Courses must be taken in residence. Not available for graduate credit.

SEC ED 4994 Student Teaching In Music, 7-12: 6 semester hours

Prerequisite: SEC ED 4993. Must be taken "in block" with SEC ED 4993 and must immediately follow it in the semester. Clinical Teaching experience in music education settings in the schools under university and school supervision with seminar included. Assignments will be in different settings from those of SEC ED 4993. Required of all majors in music education. Courses must be taken in residence. Not available for graduate credit

SEC ED 4996 Practicum II: Site Based Experience in Elementary Art: 6 semester hours

Prerequisites: ART ED 4273, SEC ED 4989, 45 hours of Studio Art, and 15 hours of Art History. Intensive clinical teaching experience under university and school supervision, with seminar included. Must be taken "in block" with SEC ED 4997. Not available for graduate credit.

SEC ED 4997 Practicum II: Site Based Experience in Secondary Art: 6 semester hours

Prerequisites: ART ED 4273, SEC ED 4989, 45 hours of Studio Art, and 15 hours of Art History. Clinical teaching experience under university and school supervision in middle/junior high and/or high school, with seminar included. Must be taken in block with SEC ED 4996. Not available for graduate credit.

SEC ED 4999 Biology Science Teaching Seminar: 3 semester hours
Prerequisites: SEC ED 4985 and SEC ED 4986. The application of
Educational philosophy, science curriculum, teaching strategies and
instructional technology in the classroom setting. Offered concurrently
with Secondary School Student Teaching, SEC ED 4990. Not available for

graduate credit.

SEC ED 5000 Teacher Practicum Research: 1 semester hour

Prerequisites: Admission into Student Teaching. Students conduct research on their own teaching in order to modify their instruction, curriculum and assessment practices. Concurrent enrollment in Sec Ed 4990, Secondary Student Teaching.

SEC ED 5012 Social Studies Teaching Advanced Seminar: 2 semester hours

Prerequisites: SEC ED 4011 An advanced seminar in the analysis and synthesis of current research and best practice of social studies curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 5374 Foreign Language Teaching Advanced Seminar: 2 semester hours

Prerequisites: SEC ED 4589 or FGN LANG 4589. An advanced seminar in the analysis and synthesis of current research and best practice of foreign language curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 5648 Mathematics Teaching Advanced Seminar: 2 semester hours

Prerequisites: SEC ED 4646. An advanced seminar in the analysis and synthesis of current research and best practice of mathematics curricula, educational philosophy, teaching strategies, and instructional technology the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 5837 Physical Science Teaching Advanced Seminar: 2 semester hours

Prerequisites: SEC ED 3240 or CHEM 4802/PHYS 4802. An advanced seminar in the analysis and synthesis of current research and best practice of physical science curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 5888 English Teaching Advanced Seminar: 2 semester hours

Prerequisites: SEC ED 4885. An advanced seminar in the analysis and synthesis of current research and best practice of English curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 5999 Biology Teaching Advanced Seminar: 3 semester hours

Prerequisites: SEC ED 4985 and SEC ED 4989. An advanced seminar in the analysis and synthesis of current research and best practice of science curricula, educational philosophy, teaching strategies, and instructional technology in the classroom setting. To be taken concurrently with SEC ED 4990, Secondary Student Teaching.

SEC ED 6387 Literacy Acquisition And Learning For Urban Students: 3 semester hours

Prerequisites: Graduate Standing Designed to extend teacher understanding of adolescent's literacy acquisition, development, and learning through the secondary grades. Emphasis is on development of a teaching philosophy and skills which include maintaining effective literacy learning environments in urban classrooms, fostering culturally responsive classroom communities, understanding social and environmental issues that affect the literacy learning or urban learners, using effective methods and materials to develop engaged and literate students, and fostering adolescent's participation in literacy activities.

SEC ED 6404 Seminar: 1-10 semester hours

SEC ED 6415 The Secondary School Curriculum: 3 semester hours

Prerequisites: Graduate Standing. Learn foundations of curriculum development. Analyze district, school and content area curriculum according to national and state standards, educational philosophies, and theories of human development and learning. Identify and evaluate various area curriculum trends.

SEC ED 6416 Curriculum Construction For Secondary Schools: 3 semester hours

Prerequisite: TCH ED 6030, SEC ED 6415 or consent of instructor. Learn to revise and design district, school, content area and integrated curriculum based on national and state standards for secondary schools. Compare and contrast curriculum design approaches while connecting curriculum and instruction to student performance.

SEC ED 6420 The Improvement Of Secondary School Teaching: 3 semester hours

Prerequisites: TCH ED 6030, or consent of instructor. Students will learn to improve their teaching effectiveness through the use of various models of instruction that are based on current learning theories and research in secondary teaching methodology in order to meet diverse student learning needs. Prior teaching experience is recommended.

SEC ED 6425 Secondary School Supervision: 3 semester hoursMethods of improving instruction in junior and senior high schools.

SEC ED 6426 Secondary School Curriculum Reform In The Earth/ Space Sciences: 1-4 semester hours

Prerequisites: Graduate Standing. Field-based experiences in improving the district-level secondary school science program, with special attention to the earth/space sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. To reflect the number of modules selected by the student, this course may be repeated for a maximum of 4 credit hours.

SEC ED 6428 Secondary School Curriculum Reform In The Life Sciences: 1-4 semester hours

Prerequisites: Graduate Standing. Field-based experiences in improving the district level secondary school science program, with special attention to the life sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. To reflect the number of modules selected by the student, this course may be repeated for a maximum of 4 credit hours.

SEC ED 6441 Problems And Research In Teaching Secondary School Science: 3 semester hours

Prerequisites: Graduate Standing & science education experience A thorough examination of research related to middle and secondary school science instruction with particular emphasis on innovative programs. Includes methods of investigation and techniques for interpreting the professional research literature.

SEC ED 6482 Problems And Research In Teaching Secondary Reading: 3 semester hours

This is the capstone course for the Master of Secondary Education-Emphasis in Reading. To be taken in the last 9 hours of Masters Program. The three foci for this course are (1) systematic study of research as it focuses on the problems of teaching reading in the secondary school, (2) innovations in the field, and (3) action research. Each student designs and completes an action research project related to literacy.

SEC ED 6484 Secondary School Curriculum Reform In The Health Sciences: 1-4 semester hours

Prerequisite: Graduate standing. Field-based experiences in improving the district-level secondary school science program, with special attention to the health sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. To reflect the number of modules selected by the student, this course may be repeated for a maximum of 4 credit hours.

SEC ED 6485 Secondary School Curriculum Reform In The Physical Sciences: 1-4 semester hours

Prerequisite: Graduate Standing. Field-based experiences in improving the district-level secondary school science program, with special attention to the physical sciences. Emphasis is given to planning and implementing standards-based inquiry on selected science topics that include connections to other curricular areas. The course is organized into 4 non-overlapping modules. Credit hours are determined based on number of modules completed. To reflect the number of modules selected by the student, this course may be repeated for a maximum of 4 credit hours.

SEC ED 6490 Internship: 1-10 semester hours

Prerequisite: Consent of instructor. Closely supervised experience in a field setting under the direction of a graduate faculty member. An appropriate level of competence and evidence of growth in the professional role must be demonstrated by the intern. The internship will include planning, research, evaluation, and related professional activities.

SEC ED 6493 Reading Specialist Practicum I: 3 semester hours

Prerequisites: SEC ED 6684,SEC ED 6686,and ED REM 6707, ED REM 6709, or ED REM 6716. Application of reading theory and research in a supervised setting. Emphasis is on assessing and analyzing the literacy strengths, needs, and interests of a range of readers with the goal of improving their reading abilities and attitudes. Focus is on establishing reading support for adolescents with the assistance of formal and informal assessments, reading professionals, educators, and adolescents' families.

SEC ED 6494 Reading Specialist Practicum II: 3 semester hours

Prerequisites: SEC ED 6493 Application of reading theory and research in a supervised setting. Emphasis is on using appropriate materials and providing effective instructional techniques to address adolescent's assessed literacy strengths, needs, and interests with the goal of improving their reading abilities and attitudes. Focus is on sustaining reading, support for adolescents with the assistance of other reading professionals, educators, and adolescents' families.

SEC ED 6497 Problems: 1-10 semester hours

SEC ED 6686 Analysis And Correction Of Reading Disabilities: 3 semester hours

Prerequisites: ED REM 6707, ED REM 6709, or, ED REM 6716 and at least one graduate level literacy course. Designed to develop teacher understanding of the roles and responsibilities of the teacher of reading, Reading Specialist, and Literacy Coach. Emphasis is on the nature of specific reading difficulties, distinguishing reading difficulty/ disability from language difference, becoming familiar with a range of tools for assessing reading skills and strategies, and developing a critical orientation for evaluating the purpose and utility of various literacy assessment tools. Teachers will use informal and formal literacy assessment tools to guide instructional planning for adolescents in the UMSL Reading Center.

Teacher Education Courses

TCH ED 2209 Foundations of Teaching in American Schools: 3 semester hours

Explores the multiple roles and functions of professional teaching including: communication, leadership, management skills, use of technology, identification of needs of diverse populations and an examination of other selected concepts and philosophies underlying American public education. Portfolio preparation will be introduced. A minimum of 15 field experience hours required.

TCH ED 2210 Introduction To Teaching: 3 semester hours

Explores the multiple roles and functions of professional teaching including: communication, leadership, management skills, use of technology, and identification of needs of diverse populations. Portfolio preparation will be introduced. A minimum of 15 field experience hours required.

TCH ED 2211 Introduction To American Schools: 3 semester hours

One of three introductory, prerequisite courses to the Teacher Education program. An examination of selected concepts and principles underlying American public education. A minimum of 4 field experience hours required.

TCH ED 2311 Foundations In Urban Education And Social Justice: 3 semester hours

Prerequisites: Enrollment in the Minor in Urban Education or permission of the instructor. An introductory course that examines the concepts and principles underlying American public education with specific attention to urban school systems. Issues of equity and social justice in public education are analyzed from multiple perspectives.

TCH ED 3100 Education for Social & Civic Responsibility: 3 semester hours

Equips students with the knowledge and skills needed to integrate an emphasis on civic and social responsibility, including social justice, into their own teaching. Includes a service learning project and requires reflection on project and in-class experiences, course readings, and personal and professional goals and development.

TCH ED 3210 Generl Linguistics in Tchg English to Speakers of Other Languages: 3 semester hours

Prerequisites: Completion of Level I An introduction to the historical, legal and pedagogical frameworks relating to Teaching English to Speakers of Other Languages (TESOL), and bilingualism. Students explore principles of language systems including English and the function of language in social and academic settings.

TCH ED 3211 Basic Principles of Second and Foreign Language Acquisition: 3 semester hours

Prerequisites: TCH ED 3210. Covers the principles of language acquisition and the factors which influence learning. Students investigate first and second language acquisition processes including socio-cultural and cognitive factors in relation to second language acquisition (SLA). The course analyzes phonology, morphology, syntax, semantics, and discourse, within a communicative framework, which directly relates to instructional strategies.

TCH ED 3212 Sociolinguistics and communication in the Classroom: 3 semester hours

Prerequisites: TECH ED 3210. Students explore the impact of culture and society on verbal and non-verbal communication, learning styles, and second language acquisition. The course introduces concepts relating to the acculturation process, cross-cultural and intracultural communication. Students develop strategies to enhance home, school and community relations and impact of culture on perceptions, communication, behaviors, and learning.

TCH ED 3213 Performance-based Assessment for TOSOL: 3 semester hours

Prerequisite: TCH ED 3210. By exploring the role of assessment in culturally and linguistically diverse classrooms, this course provides an overview of identifying and placing students at the district and school level. Formal and informal models of assessment are examined as students reflect on the administration and interpretation of equitable measurement strategies and how assessment can reinforce instruction.

TCH ED 3214 Material Development and Methods for TESOL: 3 semester hours

Prerequisites: TCH ED 3210, TCH ED 3211, TCH ED 3212, TCH ED 3213, and TCH ED 4391. Students integrate knowledge of second language acquistion research in instructional methodologies in this course. Students will also incorporate theories of linguistics, assessment models, and instructional technology into their material development to meet the needs of diverse English language learners.

TCH ED 3215 Field Experiences in TESOL: 3 semester hours

Prerequisites: Tch Ed 3210, Tch Ed 3212, and Tch Ed 3214 or concurrently taking Tch Ed 3214. Students observe and reflect on actual classroom practices as well as complete a student's needs analysis and placement tests. The students implement the strategies for advocating an collaborating on behalf of students from diverse language backgrounds. This is a supervised field experience.

TCH ED 3310 Introduction To Instructional Methods: 3 semester hours

Prerequisite: TCH ED 2209, TCH ED 2212, or equivalent and admission to Teacher Education Program. Skill development in planning instruction, selecting content, use of various teaching methods, designing assessment, and developing classroom climate and management strategies. Participation in professional development including microteaching, using educational technology, and portfolio development.

TCH ED 3313 Psychology of the Exceptional Child: 3 semester hours

Prerequisites: level I or equivalent. Introductory overview of the field of special education including historical developments, characteristics of special populations, and compliance with state and federal regulations.

TCH ED 3315 Literacy Learning And Instruction: 3 semester hours

Prerequisites: Admission to Teacher Education program. May take concurrently with TCH ED 3312 and TCH ED3313 or equivalents; may not be taken before TCH ED 3312 and TCH ED 3313 or equivalents. Analysis of methods, materials, frameworks, and technology for the effective teaching of literacy to young children, children with special needs, and children in PreK-6 education settings. Emphasis on the role of language experience, phonics, semantics, syntactics, pragmatics, schema theory, and metacognition in literacy development, A total of 20 field experience hours including observation, assessing children's literacy interests and development, and teaching lessons in a school classroom setting are required in addition to scheduled course time. This course may be applied toward a Literacy Minor.

TCH ED 3316 The Professional Portfolio: 1 semester hour

Prerequisites: Junior standing or consent of instructor Students learn the knowledge and skills to develop an electronic teaching portfolio, writing reflective rationales for standards and choosing appropriate artifacts and using technology tools for successful presentation.

TCH ED 3320 Home, School And Community Relations For The Classroom Teacher: 3 semester hours

Exploration and discussion of common communication strategies used by teachers in the classroom. Topics covered include a review of grammar, punctuation, and spelling; development of paragraphs, memos, letters reports, and newsletters; and effective oral communication with peer, supervisors, volunteers, assistants, and parents. Students will work to develop intercultural competence through communication. Students will also use technology to prepare effective communication materials.

TCH ED 4391 Literacy for Adolescent Learners in Content Areas: 3 semester hours

Prerequisites: Admission to the Teacher Education Program. Examines the teaching of multiple literacies including reading, writing, speaking and critical thinking in the content areas. Implications of diverse cultures and languages and their relationship to reading will be explored. Field experience hours are required in addition to scheduled course time.

TCH ED 4988 Teaching and Learning in Urban Schools: 3 semester hours

Prerequisites: Enrollment in the Minor in Urban Education or permission of the instructor. The capstone course for the Minor in Urban Education. Students design and implement a classroom-based, action research project in an urban school that integrates differentiated instruction, culturally relevant and sensitive teaching strategies, assessing children's learning to meet individual needs, and implementing inquiry-based projects.

TCH ED 5310 Instructional Design: 3 semester hours

Prerequisites: Graduate standing, TCH ED 5311, participation in an initial teacher preparation program, & consent of instructor Skill development in planning teaching units, instructing lessons, selecting content, using various teaching methods, designing assessment, developing classroom climate and in management strategies. Professional skills are developed through reflecting on one's own practice, using educational technology, and developing a professional portfolio.

TCH ED 5311 Foundations Of Education: 4 semester hours

Prerequisite: Acceptance into the post-baccalaureate teacher education certification program Investigation into the history, philosophies, and purposes of public schools and the multiple roles played by professional educators. Emphasis will be on the history of public education, the role of the teacher as change agent, the influence of technology, and the impact of diversity of American classrooms.

TCH ED 5312 Differentiated Instruction: 4 semester hours

Prerequisites: Graduate Standing. Explores differentiated instruction as an approach to meeting the diverse instructional needs of all students in the classroom. Differentiated instruction can be used to enhance literacy developments of adolescent learners in functional literacy, content literacy, technological literacy and creative/innovative literacy. Twenty hours of field experience are required in addition to scheduled course time.

TCH ED 5850 Topics In The Teaching Of Writing: 1-3 semester hours Same as ENGL 4850. Prerequisite: ENGL 3100 or equivalent.

TCH ED 6010 Examining History, Community And Social Justice In Education: 3 semester hours

Addresses the issues of equity and social justice from the context of personal and educational history. Students will develop a cultural understanding of their own previous school, community and family experiences and generalize those findings to their current work as educators. They will develop an understanding of the historical foundations of American education and the role of the teacher to be a catalyst for change. Curriculum, instruction and learning will be examined through a variety of lenses including race, class, gender, ability, sexual orientation and religion to become culturally responsive teachers.

TCH ED 6020 Teacher Action, Advocacy And Leadership: 3 semester hours

Investigates the relationships among students, general and special education teachers, counselors, principals, parents, and other support and specialist personnel typically present in schools in Missouri and the changing roles of all these individuals as a consequence of general and special education reform initiatives. Develop systemic action plans and become advocates and leaders whthin the school and larger community for children, families, and the profession. Assists teachers to analyze and improve their management, planning and record keeping systems and professional development planning.

TCH ED 6115 Historical Thinking in Theory and Practice I: 3 semester hours

Same as HIST 6115. Prerequisites: Graduate Standing or consent of instructor. This course explores theoretical and research literature on historical thinking. It further examines effective teaching strategies and curriculum materials that facilitate historical thinking and reading skills while also broadening content knowledge. It will familiarize students with text and web-based resources available for instruction.

TCH ED 6116 Historical Thinking in Theory and Practice II: 3 semester hours

Same as HIST 6116. Prerequisites: HIST 6115 / TCH ED 6115 or consent of instructor. Building upon HIST 6115/ TCH ED 6115, this course emphasizes the design, implementation, and assessment of teaching materials and practices that foster historical thinking and reading. In this hands-on, action research course, students will focus on their own teaching materials and practices to improve their capacity to teach and assess students' historical thinking.

TCH ED 6200 Building Character and Competence with Diverse Learners: 4 semester hours

Prerequisites: Graduate Standing. This course introduces theories and offers research-based strategies, materials, and resources designed to meet the needs of diverse learners in elementary school settings, including those with special needs and English language learners. Students will also learn ways to promote character and citizenship development, crosscultural communication, and positive behavior supports.

TCH ED 6210 Foundations Of Teaching English To Speakers Of Other Languages: 3 semester hours

Prerequisites: Graduate Standing This course is an introduction to the historical, legal and pedagogical frameworks relating to Teaching English to speakers of Other Languages (TESOL) and bilingualism. Students explore current issues, trends and influential factors in second language acquisition (SLA) instructional and assessment models.

TCH ED 6220 Principles Of Second/Foreign Language Acquisition: 3 semester hours

Prerequisite: TCH ED 6210. This course is a research-based study of language acquisition and the factors which influence learning. Students investigate first and second language acquisition processes including socio-cultural and cognitive factors, as well as linguistic research about second language acquisition (SLA). The course analyzes phonology, morphology, syntax, semantics and discourse, within a communicative framework, which directly relates to instructional strategies.

TCH ED 6230 Cross-Cultural Communication In The Classroom: 3 semester hours

Prerequisite: TCH ED 6210. Students explore the impact of culture and society on verbal and non-verbal communication, learning styles, and second language acquisition. The course introduces concepts relating to the acculturation process, cross-cultural and intra-cultural communication. Within this theoretical context, students recognize their own socio-cultural identity and its impact on teaching models. Students develop strategies to enhance home, school and community relations.

TCH ED 6240 Assessment for Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6210 and TCH ED 6220 are recommended. By exploring the role of assessment in culturally and linguistically diverse classrooms, this course provides an overview of identifying and placing students at the district and school level. Formal and informal models of assessment are examined as students reflect on the administration and interpretation of equitable measurement strategies and how assessment can inform instruction.

TCH ED 6250 Methods and Materials for Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6220, TCH ED 6230, and TCH ED 6240, or consent from instructor. Students integrate knowledge of second language acquisition research in instructional methodologies, linguistics, assessment models, and awareness of socio-cultural dynamics, in order to design and critique a unit plan including materials and needed technology support.

TCH ED 6260 Practicum in Teaching English to Speakers of Other Languages: 3 semester hours

Prerequisites: TCH ED 6220, TCH ED 6230, TCH ED 6240, and TCH ED 6250 or concurrently taking TCH ED 6250. Students observe and reflect on actual classroom practices, complete a student's needs analysis and placement test, and implement a unit plan in the classroom with reflection. This is a supervised field experience.

TCH ED 6350 Gender, Language & Identity: 3 semester hours
Same as GS 6350. Prerequisites: Graduate level standing. An
interdisciplinary look at the ways gendered and racial identities are
developed and shaped through language and culture. Readings will
address the complex, yet sometimes invisible, ways that identity, language
and gender intersect, creating and assigning roles, responsibilities, and
possible selves to individuals and groups in a global world.

TCH ED 6440 Experiential Education: 3 semester hours

Prerequisites: TCH ED 6010 This course addresses facets of experiential learning beginning with the theoretical background. Reflection will be examined as a key component of the experiential learning cycle and reflective questioning techniques developed and practiced. Adventure education, cultural journalism, apprenticeship education and related areas will be investigated as approaches to experiential learning. Students will develop an understanding of the relationship between experience and learning and develop techniques for using that relationship to enhance learning in their own teaching situation.

TCH ED 6442 Outdoor Education Leadership: 3 semester hours

Prerequisite: TCH ED 6010 or permission of instructor. Explore concept of a bioregion and development of a sense of place using historic journals, land based essays, outdoor activities, research, discussion and personal reflection. Planning, teambuilding, outdoor leadership skills, regional ecology and culture will be addressed. A 3 day field experience will explore stream, canyon, forest, and cave ecosystems in cooperation with resource professionals. Cultural ad economic folkways of the region will be considered.

TCH ED 6444 Environmental Education: 3 semester hours

Activity-oriented coursework in developing environmental awareness, field and/or laboratory skills and techniques, and the use of environmental curricula. Materials and activities appropriate for a variety of educational settings, including outdoor locales, will be developed. This course is designed to give educators experience in developing and implementing environmental education curricula, especially in an outdoor setting.

TCH ED 6880 Gateway Writing Project: 3-6 semester hours

Same as ENGL 6880. An intensive course in the writing process and the writing curriculum, designed for experienced teachers. Readings of current theory and research will be related to participants' experience as writers and as teachers. Topics may vary. may be repeated for credit. No more than 6 hours may be applied toward the M.Ed. Counts toward the Graduate Certificate in Teaching Writing.

TCH ED 6890 Seminar In Professional Writing For Teachers: 3 semester hours

Prerequisites: TCH ED 6880 / ENGL 5880 and near completion of Graduate Certificate in the Teaching of Writing. Capstone seminar for the Graduate Certificate in the Teaching of Writing. Participants will pursue the dual role of writer/ writing teacher by designing individual projects with one of these emphases: (1) research writing based on a classroom inquiry into the teaching of writing; (2) expository and creative writing based on an inquiry into the teacher's own evolution as a writer. Seminar meetings will include both face-toface and on-line communication.

TCH ED 6909 Teacher Action Research I: 3 semester hours

Prerequisites: Graduate Standing Minimal of 21 hours of M.Ed coursework completed. Students learn the knowledge, skills and tools for systematic reflective practice in preparation for completing the Masters Capstone Action Research project in TCH ED 6910.

TCH ED 6910 Teacher Action Research Capstone: 3 semester hours

Prerequisites: TCH ED 6909 for teachers and all but the last 6 hours of the M.Ed. program or TCH ED 6909 or ED REM 6040 for non teachers. Students apply research knowledge, skills, and dispositions developed in TCH ED 6909 to an Action Research project, reflecting on and evaluating an aspect of one's own practice within a situated context. Students identify focused questions, collect and analyze data, using both analytic and practice tools, and review literature to research multiple factors in order to improve student learning. The research findings and insights will be shared in a public forum as a capstone for the M.Ed.

TCH ED 7100 Research in Literacy Studies: 3 semester hours

Prerequisites: Admission to the doctoral program. Participants will critically examine foundational, theoretical and historical work in the intersection of language, literacy and culture. An analysis of seminal research will explore related traditions and contemporary theories in literacy (K-12).

TCH ED 7200 Historical and Theoretical Foundations of Curriculum and Instruction: 3 semester hours

Prerequisites: Admission to the doctoral program. Examines foundational, theoretical and historical work in the field of Curriculum and Instruction. Students will read and analyze key texts, engage in discussions with peers and divisional faculty, build coherent and well-informed arguments, and apply new understandings to problems of practice.

TCH ED 7210 Issues And Trends in Content and Language Acquisition for English Language Learners: 3 semester hours

Prerequisites: Doctoral Standing. Analysis of current issues on simultaneous development of academic content and English language learning. Current trends in teaching English to Speakers of Other Languages (TESOL) include Sheltered Instruction Observation Protocol (SIOP), Teaching and Learning Cycle, Teaching Proficiency through Reading and Story Telling (TPRS), and English as an international language. Students will identify an area of inquiry, and design and complete a research project.

College of Fine Arts & Communication

General Information

The College of Fine Arts and Communication at the University of Missouri-St. Louis offers undergraduate degree programs in the Departments of Art and Art History, Communication, Music, and Theatre, Dance, and Media Studies. Graduate study degree programs, administered through the Graduate School, are also offered in the Departments of Communication and Music.

The faculty and alumni of this college have distinguished themselves as scholars, visual artists, teachers, and performers. Students of the college pursue their activities in a variety of campus locations, including the Fine Arts Building, Lucas Hall, the Music Building and the Arts Administration Building. The Touhill Performing Arts Center affords two world-class venues for performances by university students and faculty, campus ensembles, and visiting artists. In addition, Gallery 210 and Gallery FAB offer visual arts programing of regional, national and international importance. Gallery VISIO in the Millennium Student Center showcases work by students and faculty.

The College of Fine Arts and Communication consists of some 50 full-time faculty members and is distinguished by its collaboration with the community. Six endowed professorships link the University to the Saint Louis Symphony, the Saint Louis Art Museum, Opera Theatre of Saint Louis, Laumeier Sculpture Park, and other local cultural institutions. The Des Lee Fine Arts Education Collaborative connects the University and a variety of partner cultural institutions to local school districts.

All the departments of the College of Fine Arts and Communication offer coursework in the evening or in other non-traditional modes (i.e. online and/or video). The Department of Communication offers sufficient coursework to complete its degree program in the evening. Consult the website of the department in which you are interested for details on degree requirements and a 3-year schedule of planned course offerings.

Requirements for Undergraduate Study

All majors in the College of Fine Arts and Communication must meet the following requirements:

- Requirements of their chosen baccalaureate degree (i.e., B.A., B.F.A., B.M., etc.) in accordance with the policies of the College of Fine Arts and Communication, explained below.
- Requirements of the department for their selected major or interdisciplinary program.
- Requirements for the University's general education & university requirements.
- Completion of INTDSC 1003 (https://nextbulletin.umsl.edu/ collegeoffineartsandcommunication) Code University Studies for all students admitted to UMSL with fewer than 24 academic credit hours.

Cultural Diversity Requirement

To expand cultural awareness, students in some academic units may be required to complete a course that emphasizes Asian, African, Middle Eastern, Latin American, Pacific aboriginal, Native American, or a comparable culture. Courses that satisfy this requirement involve substantial material independent of the cultures' interactions with

European cultures. If a course focuses on one facet of a culture, it must treat the topic within the context of the culture as a whole. These courses are coded with the initials [CD] for Cultural Diversity A list of courses which fulfill the Cultural Diversity requirement may be found in the introductory section of this Bulletin.

Academic Policies Grade Requirements

To graduate, all majors in the college must satisfy one of the following grade point options:

Earn 120 hours with a C grade or better, which constitutes a complete degree program. Neither a grade of C- nor a satisfactory grade may be counted.

Have a minimum UMSL grade point average of 2.0 and have met all other Grade Point restrictions that are required for the degree program and the major.

Residency Requirements

Transfer students must complete at least 30 of the last 36 hours of their degree program in residence at the University of Missouri-St. Louis.

Unless otherwise specified, a transfer student must complete 12 hours of graded work at UMSL at the 2000 level or above within the minimum number of hours required for each major.

Unless otherwise specified, a transfer student must complete at least six hours of graded work at UMSL at the 2000 level or above within the minimum number of hours required for each minor. Students should consult the minor department for specific residency and grade requirements.

Specific Baccalaureate Degree Requirements

Course Requirements

After fulfilling the general education and specific major degree requirements, students are to take the remaining hours required to complete the bachelor's degree from courses from one or more of the following areas at UMSL or university-quality equivalents at other institutions: anthropology/archaeology, art (appreciation, history, studio), astronomy, biology, chemistry, communication, criminology and criminal justice, economics, English, foreign languages/literatures, geology, history, mathematics/computer science, media studies, music (appreciation, history, performance), philosophy, physics, political science, psychology, social work, sociology, theatre and dance, business, education, engineering, or interdisciplinary. Other areas or courses not listed require approval by the chair of the student's department.

Bachelor of Arts (B.A.)

The College offers the B.A. degree in art history, communication, music, and theatre and dance. All B.A. degree candidates must successfully complete a curriculum that includes a departmental major or an approved interdisciplinary field. A major must include at least 30 credit hours but no more than 45 hours.

Foreign Language Requirement

Candidates for the B.A. degree are required to complete 13 credit hours or the equivalent in proficiency in one foreign language. Foreign language guidelines are as follows:

- Students entering with no high school language units must enroll in Language 1001 or may enroll in the 2115 series (see no. 4).
- 2. Students with the degree of proficiency equivalent to 13 hours of college-level work in French, German or Spanish may obtain exemption by passing the department's placement exam. The specific dates for the exam are posted on-line (http://www.umsl.edu/divisions/artscience/forlanglit/placement.html) or may be obtained from Languages and Cultures in the Department of Anthropology, Sociology, and Languages (http://www.umsl.edu/divisions/artscience/forlanglit) at 314-516-6240.
- 3. Native speakers of language other than English may meet the foreign language requirement by presenting a transcript from a university or secondary school of their native country. The department will certify native speakers of those languages which are taught at the university. Those who are proficient in other languages must submit certification of competence to the college.
- Language 2115 A, B, C (Intensive) will satisfy the foreign language requirement. Aptitude testing is required prior to enrollment. For more information, call Languages and Cultures at 314-516-6240
- Students may not repeat, for either credit or quality points, an elementary course if they have already completed a higher-level course for which the elementary course, or its equivalent, is a prerequisite.

Bachelor of Fine Arts (B.F.A.)

The College offers the B.F.A. degree in studio art. A foreign language is not required. Students choosing an emphasis in drawing, graphic design, painting, photography, printmaking or general fine arts must take at least 75 credit hours in studio art (including 30 hours in the foundation art program). Students seeking K-12 art teacher certification take a minimum of 50 credit hours in studio art (including 30 hours in the foundation art program) and must fulfill the General Education Requirements in both the College of Education and the College of Fine Arts and Communication.

Bachelor of Music (B.M.)

The College offers the B.M. degree in music education, performance and with elective studies in business. The requirements are the same as for the B.A. degree with the addition of music education courses for music majors seeking state teacher certification. Although foreign language proficiency is not required, foreign language study is required for applied voice students.

Applied Music and Studio Art

Students not majoring in music may count no more than eight hours in music-performing organizations (EN PER 1400 (p. 393), EN PER 1410 (p. 393), EN PER 1500 (p. 393), EN PER 1520 (p. 393), etc.)

Students in the college majoring in music may count any number of hours of applied music (private lessons). Students not majoring in studio art may count any studio art course toward any degree in the college. This also includes transferred credit.

Bachelor of Science (B.S.)

The College offers the B.S. degree in media studies. All majors must complete a minimum of 51 hours in Media Studies courses and at least 24 of these hours must be taken at UMSL. A minimum of 39 credit hours in Media Studies and a minimum of 12 credit hours in Theatre and Dance, totaling 51 credit hours, are required. At least 18 hours of coursework must be taken at the 2000 level or above at UMSL. There is no foreign language requirement, but foreign language proficiency is recommended.

Bachelor of Liberal Studies (B.L.S.)

(See Interdisciplinary Programs (https://nextbulletin.umsl.edu/ artsandsciences/interdisciplinarystudies) for complete description).

Certificate Programs

An undergraduate certificate program is offered in Advertising, Photographic Studies, Public Relations and **Nonprofit Organization Management and Leadership**. The certificate in Non-Profit Arts
Organization Management & Leadership is currently inactive.

Minors

A number of minors are available at UMSL. Some are offered by individual departments, while others, such as Classical Studies and Africana Studies, are interdisciplinary in nature and involve a number of departments. The requirements for the various minors are listed in either the departmental or interdisciplinary sections of this Bulletin.

Art and Art History

Campus Address: Fine Arts (Studio Art/Art Education) - 201 Fine Arts

Bldg.

Website: http://www.umsl.edu/~art Main Number: 314-516-6967 Fax Number: 314-516-6103

General Information

Degrees and Areas of Concentration

The department offers course work leading toward the Bachelor of Arts in Art History and the Bachelor of Fine Arts in Studio Art.

Courses included in the B.A. in art history cover the arts of Asia, Africa, Europe, and North America, including Native American arts, from ancient times to the present. Courses examine the entire range of human visual expression from painting, sculpture, architecture, and photography to performance and festival arts. In each case the arts are examined within their historical, aesthetic, and cultural contexts.

The B.A. in Art History has the following learning outcomes:

- to write clearly and coherently about works of art and art historical literature;
- to possess the ability to conduct independent research on works of art and visual culture:
- to recognize and be able to apply different methodologies, recognizing that each incorporates a specific valuing system;
- to demonstrate understanding of the ethical issues surrounding cultural property;

- to analyze critically and interpret works of visual art and art historical texts:
- to demonstrate familiarity with and basic knowledge of diverse historical artworks.

The B.F.A. in studio art consists of a foundation art program and an emphasis area in the following: art education, drawing, graphic design, painting, photography, printmaking, and general fine arts. UMSL has a transfer agreement with the St. Louis Community College District, which offers a direct credit transfer to upper division BFA courses for students who graduate with an AFA degree from the SLCC.

The Bachelor of Fine Arts Degree in Studio Art, with emphasis in Art Education, Drawing, Graphic Design, Painting, Photography, Printmaking, and General Fine Arts, has the following learning outcomes:

- to develop visual and verbal responses to visual phenomena, and organize perceptions and conceptualizations both rationally and intuitively;
- to become familiar with the major achievements in the history of art and design, including the works and intentions of leading artists and designers in the past and present;
- to develop the capacity to identify and/or solve problems within a variety of physical, technological, social, and cultural contexts;
- to understand and evaluate contemporary thinking about art or design;
- to become familiar with and develop competence in a number of art or design techniques;
- to make valid assessments of quality and effectiveness in design projects and works of art, especially their own.

To support its teaching and research objectives, the department maintains a slide collection of over 110,000 slides and an expanding database of digital images. The collection, which includes examples of painting, sculpture, architecture, photography and decorative arts, is under the supervision of a professional visual resource curator, who is available for special assistance to staff and students.

Gallery 210

Gallery 210, located in Building 7, 44 East Drive, offers visual arts programming of regional, national, and international importance. The gallery's exhibitions and related arts programming have enjoyed a long and distinguished history of service to the university and to the St. Louis community. Gallery activities are supervised by a professional gallery director.

Gallery FAB

Located in the Fine Arts Building, Gallery FAB exhibits a range of work by artists of regional and national significance. The exhibitions are coordinated by members of the Studio Art Faculty and complement the teaching emphases of the Fine Arts program.

Gallery Visio

Gallery Visio is located in room 170 Millennium Student Center. It showcases work by students and faculty, and hosts exhibitions that address cultural and contemporary issues.

Scholarships/Internships

Several scholarships are available on a competitive basis within the department, including the Art Department/Barbara St Cyr Scholarship, the William T. Isbell Jr. Scholarship, the Aronson Scholarship, the Marie

Larkin Scholarship in Art Education, and the Hilda and Roy Bergmann Scholarship for Art. The department also sponsors a variety of internships with local arts institutions, including the Saint Louis Art Museum, Contemporary Art Museum St. Louis, and Laumeier Sculpture Park.

Career Outlook

Study in art history broadens and enriches a general education, offering insight into the visual, architectural, and cultural artifacts left by earlier, as well as modern, civilizations. Art history graduates have found career opportunities in teaching, museums, galleries, libraries, historical societies, sales and auction houses, historic preservation, and arts administration.

Students with degrees in studio art find careers in teaching, advertising, public relations, graphic design, illustration, film and video production, arts administration, art restoration, product and industrial design, framing, and commercial photography.

With over 300 art teachers in the greater St. Louis region alone, there is a demand for art teachers statewide each year.

Faculty Overview

The Department of Art and Art History has a diverse faculty actively engaged in the production of art, its historical and critical evaluation, and the training of art educators. The department prides itself on its commitments to high standards of teaching and sound research achievements. Individual faculty have been cited for their teaching excellence. Art history faculty members have written books, articles, and critical reviews, and regularly participate in national and international conferences. Studio art faculty exhibit nationally and internationally in group and solo juried and invited exhibitions.

Undergraduate Studies General Education Requirements

Majors in art history must meet the college and university general education requirements (p. 28). A foreign language is required; French or German is recommended. Art history courses required for the degree may not be taken on a satisfactory/ unsatisfactory (S/U) basis.

Art history courses can be applied toward minors in Anthropology, American Studies, Classical Studies, Philosophy, and Urban Studies, or certificates in Studies in Religions, Women's and Gender Studies, Photographic Studies and African Studies.

Majors in studio art must meet the college and university general education requirements. A foreign language is not required. Studio art courses required for the degree may not be taken on a satisfactory/ unsatisfactory (S/U) basis. A minimum of 120 hours is required for graduation. Studio art courses do not fulfill the humanities general education requirement.

Degree Requirements Bachelor of Arts in Art History

Art history majors must complete a minimum of 36, but no more than 45, hours in art history with no grade below C.

Required Courses

ART HS 1100 (p. Introduction To Western Art 394)

ART HS 3395 (p. 394)	Sophomore/Junior Seminar:Research in Art History	3	ART HS 3350 (p. 394)	Studies in Design	
ART HS 4495 (p. 394)	Senior Seminar: Methods of Art History	3	ART HS 3360 (p. 394)	Photography And Society	
Select one non-We concurrently with 1	estern art course from the following (may be taken 100):	3	ART HS 3385 (p. 394)	Studies In Architectural History	
ART HS 1103	Pre-Columbian Art and Architecture of Meso-and		Themes in Art	History	
(p. 394)	South America		ART HS 3365	The Artist And The City	
ART HS 1104	Indigenous Arts Of North America		(p. 394)		
(p. 394)			ART HS 3374	Philosophy Of Art	
ART HS 1105	Introduction To The Arts Of Africa		(p. 394)		
(p. 394)			ART HS 3376	Gender in the Visual Arts	
ART HS 1108	Introduction To The Arts Of Asia		(p. 394)		
(p. 394)			ART HS 3391	Selected Themes In Art History	
Select a minimum	of three lower-division courses, one from each of	9	(p. 394)		
the following categ	ories:		ART HS 3396	The Nude In Art	
Ancient and Me	edieval		(p. 394)		
ART HS 2211	Art And Archaeology Of The Ancient World		ART HS 3397	Landscape Perspectives In Art	
(p. 394)	-		(p. 394)		
ART HS 2212	Greek Art And Archaeology		ART HS 3398	The Portrait	
(p. 394)			(p. 394)		
ART HS 2213	Roman Art & Archaeology		Professional S	Studies	
(p. 394)			ART HS 3387	Professional Internship	
ART HS 2225	Medieval Art		(p. 394)	·	
(p. 394)			ART HS 3388	St. Louis Art Museum Internship	
Early Modern			(p. 394)	'	
ART HS 2235	Italian And Northern European Renaissance Art		ART HS 3389	Visual Resources Management	
(p. 394)			(p. 394)		
	Italian Renaissance Art		ART HS 3393		
(p. 394)			Topics in Art I	History	
ART HS 2240	French Art And Architecture 1400-1715		•	as "Topics" at the 4000 level, including but not	
(p. 394)			limited to:	as replies at the 4000 level, including but not	
ART HS 2245	Baroque Art And Architecture			Topics In Ancient Art And Archaeology	
(p. 394)	·		(p. 394)	ropice in random rate and rate indebilogy	
Modern and Ar	merican		.,	Topics In Medieval Art	
ART HS 2250	Nineteenth Century European Art		(p. 394)		
(p. 394)	'		. ,	Topics In Renaissance Art	
ART HS 2255	Modern Art		(p. 394)		
(p. 394)				Topics In 17Th And 18Th Century European Art	
ART HS 2265	History Of Photography		(p. 394)	, , , , , , , , , , , , , , , , , , , ,	
(p. 394)	, , ,			Topics In Modern Art	
	American Art To 1876		(p. 394)		
(p. 394)				Topics In American Art	
ART HS 2272	American Art Since 1876		(p. 394)		
(p. 394)				Topics In Contemporary Art	
ART HS 2279	American Architecture		(p. 394)	, ,	
(p. 394)			ART HS 4490	Special Study	
ART HS 2281	Art Since 1960		(p. 394)		
(p. 394)			Select one course	e in studio art. 1	3
Select a minimum	of three upper division courses. One course must	٥		n art history, up to the maximum of 45, may be	3
be a 4000-level To	pics course. The other two courses must be chosen			ectives at the 2000 level or above.	3
from two different of	categories in the following list:	-	· ·	5555 dt 110 2000 10 voi 01 db0 vo.	
Media in Art Hi	story		Total Hours		36
ART HS 3303	Media And Technique In Art History		1 Up to nine hou	urs in studio art may be applied toward the B.A. in a	art
(p. 394)			history.	· · ·	

Bachelor of Fine Arts in Studio Art

Candidates for the B.F.A. degree must complete a Foundation Art Program (which is largely satisfied by the A.F.A. degree) and an emphasis area in one of the following: art education, drawing, graphic design, painting, photography, printmaking or general fine arts. Studio art majors are required to take 75 hours in studio art (this includes 30 hours in the foundation art program) and 15 hours in Art History. The final 30 hours must be completed in residence at UMSL. Graduating students must also pass a faculty portfolio review.

Advanced Placement in Studio Art Classes: Studio Art Majors who have professional Graphic Design or Photographic experience may wish to submit a portfolio to a committee of studio art faculty. Depending on the nature and the quality of the student's portfolio, they may be able to obtain exemptions from selected lower level studio art courses. Students applying for these exemptions must submit their portfolios prior to the first day of class of their first semester in the BFA Program. Students will be notified in writing if an exemption is granted. Students informed of these waivers will be advised of their requirements in the studio art major. All decisions of the portfolio reviews are final.

Foundation Art Program

The following courses are required for the Foundation Art Program:

ST ART 1140 (p. 394)	Drawing I		3
ST ART 1141 (p. 394)	Drawing II		3
ST ART 1142 (p. 394)	Figure Drawing I		3
ST ART 1150 (p. 394)	Design I		3
ST ART 1151 (p. 394)	Design II		3
ST ART 2240 (p. 394)	Drawing III ¹		3
or ST ART 1143 (p. 394)	Figure Drawing II		
Select one of the	following:		3
ST ART 1030 (p. 394)	Ceramics I		
ST ART 1132 (p. 394)	Sculpture I		
ST ART 2251 (p. 394)	Design III		
Studio Art Elective	es		9
Total Hours		;	30

Those planning an emphasis in drawing or painting must take ST ART 1142 (p. 394).

Students must complete 45 hours in one of the following emphasis areas:

Drawing

ST ART 2240 (p. 394)	Drawing III	3
ST ART 2241 (p.	Drawing IV	3
394)		

ST ART 2242 (p. 394)	Figure Drawing III	3
,	Figure Drawing IV	3
ST ART 2250 (p. 394)	Composition	3
ST ART 3340 (p. 394)	Advanced Problems In Drawing I	3
ST ART 3341 (p. 394)	Advanced Problems In Drawing II	3
ST ART 4495/4496 (p. 394)	Senior Studio Seminar	3
ST ART 4495/4496 (p. 394)	Senior Studio Seminar	3
Painting or Printm	aking	6
Studio Art Elective	es	12
Graphic Design		
ST ART 1210 (p. 394)	Graphic Design I	3
ST ART 1220 (p. 394)	Graphic Design II	3
ST ART 2210 (p. 394)	Typography	3
ST ART 2212 (p. 394)	Image Making for Graphic Design	3
ST ART 2220 (p. 394)	Computer Design I	3
ST ART 2221 (p. 394)	Computer Design II	3
394)	Graphic Design III	3
394)	Graphic Design IV	3
394)	Advanced Problems In Graphic Design I	3
394)	Advanced Problems In Graphic Design II	3
394)	Senior Seminar In Graphic Design I	3
394)	Senior Seminar In Graphic Design II	3
Graphic Design E	lectives	9
Painting	Deinstean	2
ST ART 1180 (p. 394)		3
ST ART 1181 (p. 394)	-	3
ST ART 2250 (p. 394)		3
ST ART 2280 (p. 394)	-	3
ST ART 2281 (p. 394)	Painting IV	3

394)

ST ART 3380 (p. 394)	Advanced Problems In Painting I	3	ST ART 2271 (p. 394)	Printmaking II	3
ST ART 3381 (p. 394)	Advanced Problems In Painting II	3	ST ART 2274 (p. 394)	Printmaking And Relief	3
ST ART 4495/4495 (p.	Senior Studio Seminar	3	ST ART 3370 (p. 394)	Advanced Problems In Printmaking I	3
394) ST ART	Senior Studio Seminar	3	ST ART 3371 (p. 394)	Advanced Problems In Printmaking II	3
4495/4495 (p. 394)	Cernor Otodo Cerninal	3	ST ART 4495/4496 (p.	Senior Studio Seminar	3
Select two of the	following:	6	394)		
ST ART 2240 (p. 394)	Drawing III		ST ART 4495/4496 (p.	Senior Studio Seminar	3
ST ART 2241 (p. 394)	Drawing IV		394) Select two of the	following:	6
,	Figure Drawing III			Printmaking: Screenprinting I	U
(p. 394)	rigure Drawing in		(p. 394)	Fillulaking. Screenpillung i	
ST ART 2243 (p. 394)	Figure Drawing IV		ST ART 2272 (p. 394)	Printmaking:Lithography I	
Studio Art Electiv	es	12	ST ART 2273	Printmaking: Etching	
Photography			(p. 394)		
ST ART 1060 (p. 394)	Photography I	3	ST ART 3372 (p. 394)	Advanced Lithography	
ST ART 2160 (p.	Photography II	3	Studio Art Elective	es, including one course in photography	9
394)			General Fine Art	s	
ST ART 2250 (p.	Composition	3	Studio art elective	es must be taken at the 2000 level or above.	30
394)			The following cou	rses are required:	9
ST ART 2263 (p. 394)	Digital Color Process	3	ST ART 2250 (p. 394)	Composition	
ST ART 2265 (p. 394)	Commercial Applications In Photography: Portrait Photography	3	ST ART 4495/4496 (p.	Senior Studio Seminar	
"	The Constructed Photograph	3	394)		
394) ST ART 3260 (p.	Photography III	3	ST ART 4495/4496 (p.	Senior Studio Seminar	
394)	Thotography in	J	394)		
ST ART 3391 (p.	Advanced Problems In Photography I	3	Select two of the	following:	6
394)			ST ART 3340	Advanced Problems In Drawing I	
	Advanced Problems In Photography II	3	(p. 394)		
394) ST ART	Senior Seminar In Photography I	3	ST ART 3341 (p. 394)	Advanced Problems In Drawing II	
4490/4491 (p. 394)				Advanced Problems In Printmaking I	
ST ART 4490/4491 (p.	Senior Seminar In Photography I	3	,	Advanced Problems In Printmaking II	
394)				Advanced Problems In Painting I	
Studio Art Electiv	es	6	(p. 394)		
Photography elec	tives	6	ST ART 3381	Advanced Problems In Painting II	
Printmaking			(p. 394)		
ST ART 1170 (p. 394)	Printmaking I	3	ST ART 3391 (p. 394)	Advanced Problems In Photography I	
ST ART 2241 (p.	Daniela a IV	3	ST ART 3392	Advanced Problems In Photography II	
394)	Drawing IV	3	(p. 394)		
,	Figure Drawing IV	3	(p. 394)	mplete 15 hours of Art History, with at least 9 hours	

3

Students choosing a double major in two studio art emphasis areas must complete all the requirements for each emphasis area. If the double major includes Graphic Design, students must take four semesters of Senior Studio Seminar. This includes:

ST ART 4490 (p. 394)	Senior Seminar In Photography I	3
ST ART 4491 (p. 394)	Senior Seminar In Photography II	3
ST ART 4495 (p. 394)	Senior Studio Seminar	3
ST ART 4496 (p. 394)	Senior Studio Seminar	3
ST ART 4497 (p. 394)	Senior Seminar In Graphic Design I	3
ST ART 4498 (p. 394)	Senior Seminar In Graphic Design II	3

Art Education

An art education emphasis leading toward K-12 Art teacher certification is available. Students choosing this option must complete degree requirements for the B.F.A. Students must completeENGL 3100 (p. 394), Advanced Expository Writing and the General Education Requirements (G.E.R.) of the College of Education as well as the College of Fine Arts and Communication must be fulfilled. A foreign language is not required.

Students will take a specialized program of Foundation Art (30 hours) that includes courses required for certification to teach art. They will also take studio art electives, including a minimum of three courses in one of the studio emphasis areas: drawing, graphic design, painting, photography, or printmaking. A minimum of 50 credit hours must be completed in studio art. Students must also complete 15 hours of art history. Major area courses, including studio art, art history, art education, teacher education, and secondary education, must be completed with a minimum grade point average of 2.5; no grade lower than a C is acceptable.

I. Foundation Art for Art Education

(10 courses; 30 hours if taken at UMSL):

ST ART 1030 (p. 394)	Ceramics I	3
ST ART 1133 (p. 394)	Introduction To Fibers And Textiles	3
ST ART 1140 (p. 394)	Drawing I	3
ST ART 1141 (p. 394)	Drawing II	3
ST ART 2240 (p. 394)	Drawing III	3
or ST ART 1143 (p. 394)	Figure Drawing II	
ST ART 1150 (p. 394)	Design I	3
ST ART 1151 (p. 394)	Design II	3
ST ART 1170/1173 (p. 394)	Printmaking I	3

ST ART 1180 (p.	Painting I	3
394)		
Total Hours		27

II. Studio Art for Art Education (7 courses; 21 hours if taken at UMSL):

ST ART 1061 (p. 394)	Introduction to Digital Photography	3
or ST ART 2220 (p. 394)	Computer Design I	
ST ART 1132 (p. 394)	Sculpture I	3
Studio Art Elective	es	6
· ·	nts must complete at least three courses in one of s: drawing, graphic design, painting, photography, or	9

III. Professional Preparation for Art Education

Required art education, Level II and III teacher education, and secondary education courses must be taken in residence at UMSL. Students must be admitted to the Teacher Education program of the College of Education. Students should check with the Office of Teacher Education for the most complete and current admission information.

Art Education certification candidates must complete the following courses:

EDUC 1000 (p. Effective Career Decision Making for Educators

Level I: Exploring Education as a Profession

Level III: Instructional Application

Total Hours

394)

,		
TCH ED 2209 (p. 394)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 394)	Introduction To Learners And Learning	3
Level II: Teachin Experiences	g and Learning Across Context and Clinical	
ART ED 3328 (p. 394)	Art Education: Theory to Practice	3
ART ED 4260 (p. 394)	Art Museum as Teaching Resource	3
TCH ED 3310 (p. 394)	Introduction To Instructional Methods	3
ED PSY 3312 (p. 394)	Psychology of Learning, Instruction, and Assessment	3
ED TECH 3135 (p. 394)	Technology for Educators	1
SPEC ED 3318 (p. 394)	Inclusive Classrooms	3
TCH ED 3310 (p. 394)	Introduction To Instructional Methods	3
TCH ED 4391 (p. 394)	Literacy for Adolescent Learners in Content Areas	3
or TCH ED 3315 (p. 394)	Literacy Learning And Instruction	

ART ED 4273 (p. 394)	Curriculum and Methods of Teaching Art	3
SEC ED 4989 (p. 394)	Practicum I: Site Based Experience	3
SEC ED 4996 (p. 394)	Practicum II: Site Based Experience in Elementary Art	6
SEC ED 4997 (p. 394)	Practicum II: Site Based Experience in Secondary Art	6
Total Hours		49

Minors

Minor in Art History

A minor in art history requires the completion of at least 18 hours in art history courses. Students must take ART HS 1100 (p. 394) and at least one course in non-Western art. They must also take at least 2 courses at the 3000 level or above. A maximum of 3 hours of internship can be applied toward a minor in art history. The GPA for the courses for the minor must be 2.0 or better. Nine of the 18 hours must be taken in residence at UMSL. All courses in the minor must receive a grade of C or above.

Minor in Studio Art

Students who wish to minor in studio art must take a minimum of 18 hours with a grade point average of 2.0 or better. Six hours must be taken at the 2000 level or above, in residence at UMSL. The requirements for the minor are as follows:

ST ART 1140 (p. 1394)	Drawing I	3
ST ART 1141 (p. 1394)	Drawing II	3
ST ART 1150 (p. 1394)	Design I	3
Select two consecu	utive courses in any single area from the following: 1	6
Painting		
Printmaking (any	y one subfield)	
Photography		
Graphic Design		
Advanced Drawi	ing	
Studio art elective		3
Total Hours		18

Photographic Studies Certificate

UMSL students, graduates, and post-baccalaureate candidates may obtain a certificate in photographic studies by coordinating courses in and related to photography. To be eligible for the certificate, undergraduates must complete a degree in a chosen major field. A faculty member of the Interdisciplinary Photographic Studies Committee will act as adviser to all students and will consult with the faculty adviser in the student's major to plan appropriate credits.

Requirements

The following courses are required:

ST ART 1060 (p.	Photography I	
394)		

ST ART 2160 (p. 394)	Photography II	3
ART HS 2265 (p. 394)	History Of Photography	3
ST ART 3260 (p. 394)	Photography III	3
ART HS 3360 (p. 394)	Photography And Society	3
Select one of the	following:	3
ART HS 1100 (p. 394)	Introduction To Western Art	
ST ART 2262 (p. 394)	Color Photography I	
ST ART 2263 (p. 394)	Digital Color Process	
ST ART 2264 (p. 394)	Non-Silver Photography	
ST ART 3260 (p. 394)	Photography III	
ST ART 3263 (p. 394)	Digital Color Portfolio	
ST ART 3363 (p. 394)	Special Topics In Photography	
ST ART 3390 (p. 394)	Special Study	
ST ART 3391 (p. 394)	Advanced Problems In Photography I	
ST ART 3392 (p. 394)	Advanced Problems In Photography II	
COMM 1050 (p. 394)	Introduction To Mass Communication	
ENGL 3140/ MEDIA ST 321 (p. 394)	News Writing 4	
ENGL 3150 (p. 394)	Feature Writing	

Art Education Courses

Total Hours

ART ED 2179 Art Activities for Elementary School: 3 semester hours

18

A study of art principles and laboratory experiences with various media and materials. Stresses curriculum planning and development of the elementary school program in art. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equiplment and supplies.

ART ED 3328 Art Education: Theory to Practice: 3 semester hours

Prerequisites: TCH ED 2210, TCH ED 2209, TCH ED 2212 and
completion of Foundation Art Program. Development and application of
concepts related to comprehensive art education and standards-based
curriculum in art education, with an examination of current theories, trends,
publications, and on-line resources in the field.

ART ED 4260 Art Museum as Teaching Resource: 3 semester hours

Prerequisites: TCH ED 2210, TCH ED 2211, TCH ED 2212, 9 hours of ART History and completion of Foundation Art Program. Should be taken concurrently with ART ED 3328. Students will learn how to strengthen K-12 Art Education by utilizing the collections and resources of the St. Louis Art Museum. A variety of teaching approaches and learning activities for galleries and classrooms will be employed, focusing on art from around the world and throughout history.

ART ED 4273 Curriculum and Methods of Teaching Art: 3 semester hours

Prerequisites: ART ED 3328 and completion of, or concurrent enrollment in TCH ED 3310, TCH ED 3312, TCH ED 3313, TCH ED 3315, or TCH ED 4391. A study of the scope and sequence of art education in the school curriculum, with emphasis on the preparation, selection, organization and application of materials and methods of instruction and assessment. Attention is also given to learning the research tools of the scholar in the field of art education. Not available for graduate credit.

ART ED 4290 Special Study in Art Education: 1-6 semester hours

Prerequisites: Junior, senior, or graduate standing and consent of instructor. Independent study through readings, reports, field research, or special projects. May be repeated for credit, up to a maximum of 6 credit hours.

ART ED 5334 Topics in Contemporary Art Education: 3 semester hours

Prerequisites: Graduate standing or permission of instructor. Intensive study for advanced students and art teachers, emphasizing specialized techniques and innovative concepts. Topics to be announced. May be repeated for credit, up to a maximum of 12 credit hours.(PREVIOUS CATALOG NUMBER WAS STUDIO ART 3334).

ART ED 5588 Museum Education and Visitor Research: 3 semester hours

Prerequisites: Consent of director of Museum Studies Program.

Development and operation of museum educational programs: learning theory; program design; relationships with exhibit development' programming for children and adults. Visitor research: theoretical foundations; research design; impact on programming and strategic planning.

ART ED 5590 Special Study in Art Education: 1-6 semester hours

Prerequisite: Graduate standing and consent of instructor. Independent study through readings, reports, field research, or special projects. May be repeated for credit.

Art History Courses

ART HS 1100 Introduction To Western Art: 3 semester hours
An introduction to major historical movements in Western art.

ART HS 1101 Ideas in Art History: 3 semester hours

Prerequisites: ART HS 1100 or consent of instructor. Studies of selected works of art, with attention to the social and cultural factors surrounding their creation. May not count for a major or minor in art history.

ART HS 1102 Art Of Eqypt and the Ancient Near and Middle East: 3 semester hours

A survey of art in Egypt, the Ancient Near East, and the Middle East. A variety of artistic genres will be studied in relation to their social, political, and religious contexts. This course satisfies the cultural diversity requirement.

ART HS 1103 Pre-Columbian Art and Architecture of Meso-and South America: 3 semester hours

An overview of Pre-Columbian art and architecture that examines the contributions of Olmec, Toltec, Maya, Aztec, Inca, Andean and other Meso-American and South American cultures from prehistoric times until the Spanish intervention in the early 1500s.

ART HS 1104 Indigenous Arts Of North America: 3 semester hours

A survey of the indigenous arts of North America from precontact through the present. Cultures to be covered include Iroquois and Ojibway of the Northeast; Navajo and Pueblo of the Southwest; Kwaguith and Gitsxan of the Northwest Coast; and Inuit from the Arctic. The relationship of art to religion, philosophy, politics, and social life will be explored.

ART HS 1105 Introduction To The Arts Of Africa: 3 semester hours

A survey of the major art forms of Africa and the African Diaspora. The course addresses traditional media, such as architecture, masquerade, regalia, sculpture, metalwork, ceramics, and textiles, as well as contemporary sculpture, painting, photography, and performance. This course satisfies the cultural diversity requirement.

ART HS 1108 Introduction To The Arts Of Asia: 3 semester hours

A survey of the major achievements in architecture, sculpture, and painting of India, China, Japan, and Southeast Asia, with an emphasis on religious, historical, and social context of the arts. This course satisfies the cultural diversity requirement.

ART HS 1175 Arts And Ideas: 3 semester hours

Same as ENGL 1175, HIST 1175, M H L T 1175, PHIL 1175 and TH DAN 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provice background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6 - 8 performances or exhibitions. Can be repeated for credit.

ART HS 2211 Art And Archaeology Of The Ancient World: 3 semester hours

Prerequisite: ART HS 1100. A survey of art in Egypt, the ancient Near East, Greece, and Rome, beginning in the Neolithic era (8000-4000 BC) and ending with the Barbarian invasions of Italy in the fifth century A.D. The major highlights of architecture and city planning, sculpture, painting, pottery, and the minor arts will be covered.

ART HS 2212 Greek Art And Archaeology: 3 semester hours

General survey or material culture in the Aegean basin, beginning with the Bronze Age (Third Millennium B.C.) and terminating in the late Hellenistic period (Second Century B.C.). For the Hellenistic period the course will trace Greek developments and influences outside of the Aegean, for example in Italy and in Egypt.

ART HS 2213 Roman Art & Archaeology: 3 semester hours

General survey or material culture in Italy and its dependencies beginning with prehistoric Italy (Ninth and eighth centuries B.C.) and terminating in late antiquity (the fifth century A.D.). The course will focus on the regional variants of Roman art in such places as Gaul, Spain, Great Britain, North Africa and the Greco-Roman East.

ART HS 2225 Medieval Art: 3 semester hours

A survey of the art and architecture of the Mediterranean World and northern Europe from late antiquity to the late Gothic period (300-1300 A.D.). Focus on new styles and subject matter in painting. sculpture and architecture.

ART HS 2235 Italian And Northern European Renaissance Art: 3 semester hours

Prerequisites: ART HS 1100 or permission of instructor. An introduction to selected artworks, artists and patrons in Italy and Northern Europe throughout the fifteenth and sixteenth centuries, beginning with Ghiberti and Van Eyck and ending with Michelangelo and Brughel.

ART HS 2237 Northern European Renaissance Art: 3 semester hours

Prerequisites: ART HS 1100 or permission of instructor. A review of Flemish, so called Franco-Flemish, and German paintings, illuminations, and prints during the fifteenth and sixteenth centuries, before and after Luther.

ART HS 2238 Italian Renaissance Art: 3 semester hours

Prerequisites: ART HS 1100 or permission of instructor. Study of sculpture, paintings, and architecture in Florence, Rome, and Venice during the fourteenth, fifteenth,& sixteenth centuries as reflections of cultural, religious, philosophical, and political beliefs.

ART HS 2240 French Art And Architecture 1400-1715: 3 semester hours

Prerequisite: ART HS 1100. A survey of art and architecture in France from the late medieval period to the late baroque. Topics will include the development of French chateaux and gardens, the rise of the Academy, and the influence of royal patronage on the arts.

ART HS 2245 Baroque Art And Architecture: 3 semester hours

Prerequisites: ART HS 1100 or permission of instructor. A survey of the major paintings, statues, buildings, and their artists and patrons in seventeenth-century Italy, France, Flanders, Holland, and Spain. Special attention will be given to the study of the city of Rome.

ART HS 2248 Eighteenth Century European Art: 3 semester hours

Prerequisites: ART HS 1100 or permission of the instructor. A survey of European art and architecture from 1700 to 1800, primarily in England, France, and Italy. Topics will include the Rococo and Georgian styles; the Classical and Gothic revivals; the impact of the Enlightenment; the Grand Tour and admiration of antiquity; and decorative arts, including ceramics, interior design, and gardens.

ART HS 2250 Nineteenth Century European Art: 3 semester hours

Prerequisites: ART HS 1100 or consent of the instructor. A survey of European art from 1780 to 1880, focusing on developments in England, France, Germany, and Scandinavia. Topics to be addressed include Neoclassicism, Romanticism, Realism, and Impressionism.

ART HS 2255 Modern Art: 3 semester hours

Prerequisite: ART HS 1100 or consent of the instructor. A survey of art from 1880 to 1960. Topics to be addressed include Post-Impressionism, Cubism, Surrealism, Abstract Expressionism, and non-representational art.

ART HS 2265 History Of Photography: 3 semester hours

Prerequisite: ART HS 1100 or consent of instructor. A study of photography: its historical development, an examination of it as an art medium, and its influence on the development of modern art.

ART HS 2270 American Art To 1876: 3 semester hours

Prerequisites: ART HS 1100 or consent of the instructor. An overview of the major developments in painting, sculpture, and the decorative arts in the United States to 1876.

ART HS 2272 American Art Since 1876: 3 semester hours

Prerequisites: ART HS 1100 or consent of the instructor. Major developments in American painting, sculpture, and the decorative arts since 1876.

ART HS 2279 American Architecture: 3 semester hours

Prerequisites: ART HS 1100 or consent of the instructor. An overview of American Architectural practice from 1600 to the present.

ART HS 2281 Art Since 1960: 3 semester hours

Prerequisite: ART HS 1100 or consent of the instructor. A survey of art from 1960 to present. Topics to be addressed include Pop Art, Conceptual Art, Minimalism, Performance Art, and other recent art forms and movements.

ART HS 2291 Issues And Ideas In Art History: 3 semester hours

Prerequisites: ART HS 1100 or permission of instructor. Intensive studies of a few selected works from various eras and cultures, with special attention to the particular social and cultural factors surrounding their creation. May be repeated for credit with a change of topic and permission of advisor.

ART HS 3303 Media And Technique In Art History: 3 semester hours

Prerequisites: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. Technical demonstration of and research into various materials and media used by artists. In addition to ancient media such as egg tempra and fresco, it will include modern media such as photography and video.

ART HS 3350 Studies in Design: 3 semester hours

Prerequisites: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. The course examines selected topics in the history of design, and may include genres such as architecture, material culture, or graphic design. May be repeated for credit with a different topic, for a maximum of 6 credit hours.

ART HS 3360 Photography And Society: 3 semester hours

Prerequisites: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. A study of photography as a means of information and expression, as an influence on culture, and as a reflection of concepts in politics, science, morality, and art. This course counts toward the major.

ART HS 3365 The Artist And The City: 3 semester hours

Prerequisite: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. Examines the role of urban centers as a locus for significant artistic activity, as a recurring theme in art, and as spatial and physical architectural realities. Aspects of urban planning, urban imagery in art and the social, political, and personal networks artists develop as a result of living in particular urban centers at particular moments in history will be among the topics discussed.

ART HS 3374 Philosophy Of Art: 3 semester hours

Same as PHIL 3374. A critical study of issues as the definition of art, the nature of aesthetic experience, meaning and interpretation in the arts, art and emotion, value in art.

ART HS 3376 Gender in the Visual Arts: 3 semester hours

Same as GS 3376. Prerequisites: Minimum of one 2000-level course in art history and ENGL 3100, or consent of instructor. Selected topics in the role of gender difference in the production and reception of works of visual art and culture. This course will consider examples of historical and contemporary works through gender theories and the analysis of cultural and social factors that contribute to the construction of sexualities and genders.

ART HS 3385 Studies In Architectural History: 3 semester hours

Prerequisites: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. A study of selected topics in architectural history. The content of the course will vary, and the course may be repeated for credit with permission of the instructor and departmental advisor. Possible topics include the history of the castle, factory architecture, the evolution of the Gothic cathedral, and domestic and vernacular architecture.

ART HS 3387 Professional Internship: 1-6 semester hours

Prerequisites: Minimum of two 2000-level courses in art history and ENGL 3100 and consent of instructor. The internship provides experience in museums, historical societies, galleries, design firms, or visual resource collections. Students will assist in the diverse duties associated with the day-to-day functions of the institution, under the joint direction of a faculty advisor and a supervisor at the institution. Course requirements may include readings, research assignments, and/or a paper. This course may be counted for art history or studio art credit with the department's consent.

ART HS 3388 St. Louis Art Museum Internship: 3 semester hours

Prerequisites: Art & Art History or Anthropology major, minimum of two 2000-level courses in art history and ENGL 3100 and consent of instructor. Students selected by the Internship Committee will work 15-20 hours per week under the direction of staff at the St. Louis Art Museum. Projects may include research on the collection, exhibitions, and programs.

ART HS 3389 Visual Resources Management: 1-3 semester hours
Prerequisites: Minimum of two 2000-level courses in Art History, ENGL
3100, and consent of instructor. A hands-on course in the Department of
Art and Art History's media center that will cover collection development
and management as well as technical and theoretical issues in the visual
resources profession.

ART HS 3390 Special Study: 1-4 semester hours

Prerequisite: Junior or senior standing. Consent of instructor and Art History advisor. Independent study through readings, reports or field research. May be repeated one time with consent of Art History advisor. My not be used for internship credit.

ART HS 3391 Selected Themes In Art History: 3 semester hours
Prerequisite: Minimum of one 2000-level course in Art History and ENGL
3100, or consent of instructor. The course examines selected themes in
art history. Course content will vary; the course may be repeated for credit

ART HS 3393 Art Museum And Gallery Management: 3 semester hours

with a different theme, for a maximum of 6 credit hours.

Prerequisites: Minimum of two 2000-level courses in Art History and ENGL 3100 or consent of instructor. This course will consider the practical application of professional training in art history as it applies to not-forprofit gallery management. Topics covered will include: grant writing in the arts, the development of art exhibits, the role of the art curator, and the operation of a gallery.

ART HS 3395 Sophomore/Junior Seminar:Research in Art History: 3 semester hours

Prerequisite: Minimum of two 2000-level courses in Art Hist and ENGL 3100, or consent of instructor. An introduction to research and writing techniques in art history, organized around a topic to be announced. Course includes directed readings, research and writing.

ART HS 3396 The Nude In Art: 3 semester hours

Prerequisite: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. An exploration of the various meanings of nudity in art. The cultural, social and psychological contexts of nudity and geographic regions, both western and non-western. Representations of both males and females will be analyzed in terms of gender construction, political authority, and personal identity.

ART HS 3397 Landscape Perspectives In Art: 3 semester hours

Prerequisite: Minimum of one 2000-level course in Art History and

ENGL 3100, or consent of instructor. This seminar considers the
various conventions for representing landscape and nature, and human
relationships to landscape, throughout history and across cultures. Issues
to be considered may include: landscape as metaphor in European

painting; contemporary earthworks; lanscape photography; and the

relationship of artist to landscape in the non-western world.

ART HS 3398 The Portrait: 3 semester hours

Prerequisites: Minimum of one 2000-level course in Art History and ENGL 3100, or consent of instructor. An examination of portraiture in its social, economic and political contexts. Group and individual portraits will be analyzed in terms of gender construction, social status, family history and personal and public identity throughout selected periods of western and non-Western culture.

ART HS 4408 Topics In The Arts Of Asia: 3 semester hours

Prerequisites: ART HS 1108 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Intensive study of selected topics in the arts of Asia. The content of the course will vary. May be repeated for credit with permission of instructor and advisor. This course satisfies the cultural diversity requirement.

ART HS 4411 Topics In Ancient Art And Archaeology: 3 semester hours

Prerequisites: ART HS 2211, ART HS 2212, or ART HS 2213, and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Intensive study of some aspect of ancient art and archaeology, with emphais prior to the common era. May be repeated for credit with permission of instructor and advisor.

ART HS 4425 Topics In Medieval Art: 3 semester hours

Prerequisite: ART HS 2225 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. A study of the selected topics in Medieval art. The content of the course will vary, focusing on single topics such as manuscript painting, the Gothic cathedral and its sculptural decoration, or the art of pilgrimage churches. May be repeated for credit with permission of instructor.

ART HS 4435 Topics In Renaissance Art: 3 semester hours

Prerequisites: ART HS 2235, and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Studies of selected topics, which will vary. Subjects to be considered may include the art of Florence, the role of patronage in Renaissance Italy and Papal art. May be repeated for credit with a different topic.

ART HS 4445 Topics In 17Th And 18Th Century European Art: 3 semester hours

Prerequisite: ART HS 2245 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. A study of selected topics in Baroque and Rococo art. The content of the course will vary, focusing on single areas, such as the Baroque in Rome, or on major artists; such as Bernini, Rubens and Rembrandt. May be repeated for credit with permission of instructor and advisor.

ART HS 4455 Topics In Modern Art: 3 semester hours

Prerequisites: ART HS 2255 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Intensive study of selected topics in art of the nineteenth and/or twentieth centuries. May be repeated for credit with permission of instructor and advisor.

ART HS 4475 Topics In American Art: 3 semester hours

Prerequisites: ART HS 2270 or ART HS 2272 or ART HS 2279 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Intensive study of selected topics in American art. May be repeated for credit with permission of instructor and advisor.

ART HS 4481 Topics In Contemporary Art: 3 semester hours

Prerequisites: ART HS 2281 and ENGL 3100, or one 3000-level course in Art History, or consent of instructor. Intensive study of selected topics in art since 1960. May be repeated for credit with permission of instructor and advisor.

ART HS 4490 Special Study: 1-4 semester hours

Prerequisite: Junior/Senior standing. Consent of instructor and Art History advisor. Independent study through readings, reports, or field research. May be repeated one time with consent of Art History advisor. May not be used for internship credit.

ART HS 4495 Senior Seminar: Methods of Art History: 3 semester hours

Prerequisite: ART HS 3395, ENGL 3100 and Senior standing in art history or consent of instructor. An advanced class in the methods of art historical analysis. Theoretical perspectives will include connoisseurship, style, iconography, social history, and others.

ART HS 5578 Topics In American Art: 3 semester hours

Prerequisites: Graduate standing and consent of instructor. This course examines a discrete aspect of the history of American art within the changing social, cultural and historical contexts of Euro-American and/or Native American experiences and traditions.

ART HS 5592 The History Of The Visual Arts In American Museums: 3 semester hours

Same as ANTHRO 5592 and HIST 5592. Prerequisites: Graduate standing and consent of instructor. This course is an introduction to selected topics in the history of museology, focusing on art and anthropology museums as sites for the interpretations of art and culture, and as contested meeting grounds for various views of history and culture.

ART HS 6035 Foundations In Museology I: 3 semester hours

Same as ANTHRO 6135 and HIST 6135. Prerequisites: Consent of Director of Museum Studies Program. Concepts for understanding museums in their social and cultural context; history of museums; museology and general social theory; information transfer vs. meaning-making models; museums and communities; the changing role of museums; museums as complex organizations; process models of museology.

ART HS 6036 Foundations Of Museology II: 3 semester hours Same as ANTHRO 6136 and HIST 6136. Prerequisites: ART HS

Same as ANTHRO 6136 and HIST 6136. Prerequisites: ART HS 6035 consent of Director of Museum Studies Program Audience-centered approaches to museology; visitor research and learning theory; philosophical and practical considerations in museum planning; the physical design of museums; creativity; exhibit and program development; collections and curation; the challenge of diversity; the future of museums.

ART HS 6037 Effective Action In Museums: 3 semester hours

Same as ANTHRO 6137 and HIST 6137. Prerequisites: Consent of Director of Museum Studies Program The nature of the work done in museums; how museums are organized to accomplish this work; professional roles and practices; technology and resources used by museums; skills for creative and effective leadership in project management and administration in museums; planning, flow charting, budgeting, team dynamics, and related skills. The course will include several site visits to area museums and guest lectures by a variety of museum professionals.

ART HS 6038 Museum Studies Master's Project: 4 semester hours Sames as ANTHRO 6138 and HIST 6138. Prerequisites: Consent of Director of Museum Studies Program. Research and writing/exhibit development on a selected topic.

Studio Art Courses

ST ART 1030 Ceramics I: 3 semester hours

An introduction to basic methods and theory of ceramics including work with hand-built construction, wheel techniques and glazing. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1060 Photography I: 3 semester hours

An introduction to the techniques and aesthetics of digital photography, along with photo editing software and printing techniques. Students must provide a digital camera. Lab fee required. Basic computer lab equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 1061 Introduction to Digital Photography: 3 semester hours

An introduction to the techniques and aesthetics of digital photography, along with photo editing software and printing techniques. Students must provide a digital camera. Lab fee required. Basic computer lab equipment will be provided, though students will need to supply some personal equipment and supplies. Students who plan to pursue a career in art should enroll in ST ART 1060 rather than ST ART 1061. ST ART 1061 does not satisfy the prerequisite requirement for other courses in Photography beyond the 2000 level, but may count towards Photography electives.

ST ART 1080 Comics & Cartoon Illustration: 3 semester hours

A course in creating and appreciating the world of comics and cartoons. This course will investigate the tools and techniques for creating cartoons, cartoon illustrations and the world of comics. Students will create their own cartoons with traditional media and also with computers. While designed for beginners, experienced artists will be encouraged to perfect their personal styles. The class will create and print its own comic book. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1130 Ceramics II: 3 semester hours

Prerequisite: ST ART 1030 A continuation of ST ART 1030. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1132 Sculpture I: 3 semester hours

An introduction to traditional and contemporary materials, aesthetics, and theories of three-dimensional art. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1133 Introduction To Fibers And Textiles: 3 semester hours

Prerequisites: ST ART 1150. Exploration of a variety of on- and offloom weaving and other fiber and textile media and techniques. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 1140 Drawing I: 3 semester hours

An introduction to drawing through the study of figure, object, and environment. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1141 Drawing II: 3 semester hours

Prerequisite: ST ART 1140. The development of drawing skills though continued observation and problems of invention. A further exploration of varied drawing materials and techniques including graphite, charcoal, conte crayon, and inks. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1142 Figure Drawing I: 3 semester hours

Basic studies of the human form and anatomy from the model in a variety of drawing media. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1143 Figure Drawing II: 3 semester hours

Prerequisite: ST ART 1142 Continuation of Figure Drawing I. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1150 Design I: 3 semester hours

Studio problems in the creative use and integration of the elements of twodimensional design: line, form, space, texture. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1151 Design II: 3 semester hours

Prerequisite: ST ART 1150 A continuation of ST ART 1150, twodimensional design, with introduction to color theory. Some application of mixed media problems. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1170 Printmaking I: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1141 or consent of instructor. An introduction to printmaking techniques, materials, and theories. The course will include work in a variety of print materials. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1173 Printmaking: Screenprinting I: 3 semester hours

Prerequisite: ST ART 1170 An introduction into the techniques, methods, and aesthetics of screenprinting. Studio problems involving uses and approaches will be emphasized. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1180 Painting I: 3 semester hours

Prerequisite: ST ART 1140, ST ART 1150 or consent of instructor. An introduction to the use of oil and/or acrylic painting media. Studio problems to develop technical and expressive skills on various surfaces. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1181 Painting II: 3 semester hours

Prerequisite: ST ART 1180 or consent of instructor Continuation of basic studio problems in painting media. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 1210 Graphic Design I: 3 semester hours

Prerequisite: None. Introduction to graphic design with an emphasis on fundamentals of space, emotion, shape, form, and concept. Projects in design, layout and typography will be addressed. The course is recommended to be taken concurrently with ST ART 1150, Design I. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 1220 Graphic Design II: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1210. Continuing introduction to graphic design, focusing on developing concepts and design process, typographic systems and layout systems. The course is recommended to be taken concurrently with ST ART 2220, Computer Design I. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2100 Advertising Art Fundementals: 3 semester hours

Prerequisites: MEDIA ST 2090 or consent of the Coordinator for the Certificate in Advertising. This course introduces students to basic principles of production, including layout, type, color, readability, and image selection. The course is intended for students pursuing a Certificate in Advertising, and does not count towards a degree in Graphic Design.

ST ART 2160 Photography II: 3 semester hours

Prerequisite: ST ART 1060. An introduction to the techniques and aesthetics of black and white photography and the darkroom. Students must provide a film camera with adjustable speeds and aperture. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2210 Typography: 3 semester hours

Prerequisites: ST ART 1220 or consent of the instructor. Course intends to instill a sense of responsibility relative to typographic and production design, while developing the student's capacity for critical thinking and general typographic rules, visual hierarchy of typographic elements, classical typographic tradition, book design, awareness of typographic aesthetic.

ST ART 2212 Image Making for Graphic Design: 3 semester hours

Prerequisites: ST ART 1220 or instructor's consent. This course teaches skills of making images and custom type for use in visual communication. Topics covered include a survey of traditional and experimental illustration techniques with an emphasis on creation of original imagery. The class will discuss how hand images are further developed and combined on the computer for use in design. Creativity, discovery, and craft are highly emphasized. Lab fee required.

ST ART 2220 Computer Design I: 3 semester hours

Prerequisite: ST ART 1150 and ST ART 1210. An introduction to the use of computer graphics for the creation of artwork applicable to the graphic design industry. The course is recommended to be taken concurrently with ST ART 1220, Graphic Design II. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2221 Computer Design II: 3 semester hours

Prerequisite: ST ART 2220 Designed to familiarize students with the methods processes, software, and computer functions used in graphic design and illustration. The course is recommended to be taken concurrently with ST ART 3310, Graphic Design III. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2232 Sculpture II: 3 semester hours

Prerequisite: ST ART 1132 Continuation of ST ART 1132. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2240 Drawing III: 3 semester hours

Prerequisites: ST ART 1140 and ST ART 1141 This course offers studio problems designed to further the development of drawing skills in various media. Limited color will also be introduced. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2241 Drawing IV: 3 semester hours

Prerequisite: ST ART 2240 Studio problems with emphasis on color and multi-material approach to drawing. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2242 Figure Drawing III: 3 semester hours

Prerequisites: ST ART 1142 and ST ART 1143 Advanced study of the human form and anatomy from the model in a variety of drawing media. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2243 Figure Drawing IV: 3 semester hours

Prerequisite: ST ART 2242. Continuation of ST ART 2242. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2250 Composition: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1151 An investigation of the use of formal design elements as used in historic and contemporary art. Weekly studio problems and discussions will concentrate on skills, application, and unifying effects of compositional elements on a variety of visual art forms. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2251 Design III: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1151. Advanced studio problems in design materials. Use of twodimensional and three-dimensional mixed media. Experimental use of materials and media will be introduced. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2262 Color Photography I: 3 semester hours

Prerequisite: ST ART 1060 or equivalent An introduction to the techniques and aesthetics of color photography. Mastering the printing and finishing processes and producing a color print portfolio will be the requirements of this class. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2263 Digital Color Process: 3 semester hours

Prerequisites: ST ART 1060. An extended study in the process of digital printing. The class will help students refine their techniques using digital color management and explore various techniques to assure the closest relationship between the image on the monitor and the resulting print. Hands-on training with different digital printers, digital media and scanning techniques will be offered. This class will involve both learning exercises and the creation of original computer-aided photographic art. Lab fee required. Students must provide a digital camera. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2264 Non-Silver Photography: 3 semester hours

Prerequisites: ST ART 1060 and ST ART 2160. An introduction to the aesthetics and techniques of nontraditional photographic processes. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2265 Commercial Applications In Photography: Portrait Photography: 3 semester hours

Prerequisites: ST ART 2163 or consent of instructor. Exploration of issues and applications within the field of portait photography. Techniques of lighting, posing, and studios equipment wil be explored. This class will involve both learning exercises and the creation of original computeraided photographic art. Students must provide a digital camera. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2266 Commercial Applications in Photography: Product Photography: 3 semester hours

Prerequisites: ST ART 2163 or consent of instructor. Exploration of issues and applications within the field of product Photography. Techniques of lighting, posing and studio equipment will be explored. This class will involve both learning exercises and the creation of original computeraided photographic art. Students must provide a digital camera. Lab fee is required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2267 The Constructed Photograph: 3 semester hours

Prerequisites: ST ART 2263. An exploration of the constructed photograph through the art of digital collage. The class will survey the history of hand-created photographs. In addition, students will learn advanced Photoshop techniques in order to create original computer-aided photographic art. Lab fee required. Basic computer equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2268 Commercial Applications in Photography: Event Photography: 3 semester hours

Prerequisites: ST ART 2163 or consent of instructor. Exploration of issues and applications within the field of event photography. The class will focus on a variety of event photography types, including weddings, corporate and non-profit events, photobooths, concerts, etc. Special emphasis will be placed on photographing for the client. This class will involve both learning exercises and the creation of original computer-aided photographic art. Students must provide a digital camera. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2269 Commercial Appl in Photo: Photojournalism, Documentary, & Publ Relations Photography: 3 semester hours

Prerequisite: ST ART 2163 or consent of instructor. Exploration of issues and applications within the field of photojournalism, documentary, and public relations photography. The class will concentrate on a variety of photographic applications focusing on news and editorial imagemaking, as well as training the student in public relations assignments. This class will involve both learning exercises and the creation of original computer-aided photographic art. Students must provide a digital camera. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2271 Printmaking II: 3 semester hours

Prerequisite: ST ART 1170 or consent of instructor A continuation of ST ART 1170. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2272 Printmaking:Lithography I: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1141 or consent of instructor. An introduction to printmaking skills and theory in stone and plate lithography. Studio problems in the use of materials and equipment. Attention will be given to individual development. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2273 Printmaking: Etching: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1141 or consent of instructor. An introduction to printmaking skills and theory of contemporary etching practices. Development of skills and aesthetic judgements in the media using non-toxic etching processes. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 2274 Printmaking And Relief: 3 semester hours

Prerequisites: ST ART 1170 and ST ART 2271 Advanced problems in relief printmaking. Work in wood and mixed materials. Development of skills and aesthetic judgments in the media. May be repeated for credit with consent of instructor. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2280 Painting III: 3 semester hours

Prerequisite: ST ART 1181 or consent of instructor. Advanced studio problems in painting media. Attention paid to individual development of theory, expression, and technique. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2281 Painting IV: 3 semester hours

Prerequisite: ST ART 2280 A continuation of ST ART 2280. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2283 Watercolor Painting: 3 semester hours

Prerequisites: ST ART 1150 and ST ART 1141 Beginning problems in watercolor painting. Includes the study of traditional and contemporary approaches to color, color techniques, and treatment of papers. May be repeated for credit. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 2290 Special Study: 1-10 semester hours

Prerequisites: Junior/Senior Standing And Consent Of Department And Instructor Independent Study Through Readings, Reports Or Field Research. Lab Fee Required. Basic Studio Equipment Will Be Provided Though Students Will Need To Supply Some Personal Equipment And Supplies.

ST ART 2312 Special Topics in Graphic Design: 3 semester hours

Prerequisites: ST ART 1220. Studies of selected topics, which will vary. May be repeated for credit with a different topic, for a maximum of 9 credit hours. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3074 Special Topics In Studio Art: 3 semester hours

Prerequisites: Minimum completion of 18 hours in Studio Art. Selected topics in studio studies. May be repeated for credit with a change of topic. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3260 Photography III: 3 semester hours

Prerequisite: ST ART 2160 An exploration into contemporary theories and trends in photography. Advanced projects, portfolios and techniques will be expected from those enrolled. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3263 Digital Color Portfolio: 3 semester hours

Prerequisites: ST ART 2263. Intermediate exploration of the aesthetics and techniques of digital photography including an investigation of color management in printing. Students will produce one or more portfolios of digital images. Lab fee required. Basic lab equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3310 Graphic Design III: 3 semester hours

Prerequisite: ST ART 1220 and ST ART 2220. Advanced studio problems to further the understanding of design and its relationship to typographic elements, illustration, and communication. The course will encourage both conceptual and technical development of the designer. The course is recommended to be taken concurrently with ST ART 2221, Computer Design II. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3311 Graphic Design IV: 3 semester hours

Prerequisite: ST ART 3310 and ST ART 2221. Further studio problems in the graphic arts. The course is recommended to be taken concurrently with ST ART 2210, Typography. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3312 Advanced Topics in Graphic Design: 3 semester hours

Prerequisites: ST ART 3311 or permission of instructor. Studies of selected topics, which will vary. May be repeated for credit with a different topic, for a maximum of 9 credit hours. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3340 Advanced Problems In Drawing I: 3 semester hours

Prerequisite: ST ART 2241 This course is focused on professional-level art and portfolio production. It offers studio problems designed to further the development of drawing skills. Emphasis will be given to the study of drawing as an independent art form. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3341 Advanced Problems In Drawing II: 3 semester hours

Prerequisite: ST ART 3340 A continuation of ST ART 3340. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3350 Studio Art Internship: 1-6 semester hours

Prerequisites: Junior/Senior standing in studio art and consent of the faculty advisor. The internship provides experience in design firms, professional art studios, or comparable settings. Students will assist professionals in the diverse duties associated with studio art activities. Course assignments may include research assignments and/or reports to be reviewed by the faculty advisor and/or supervisor. May be repeated for credit, up to a maximum of 6 credit hours.

ST ART 3362 Color Photography II: 3 semester hours

Prerequisite: ST ART 2262. An advanced exploration into the aesthetics and techniques of color photography. Students will be expected to refine their vision utilizing color to master the color processes. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3363 Special Topics In Photography: 3 semester hours

Prerequisites: Art 2160. Photography II & permission of advisor Selected topics in photographic practice. May be repeated for credit with permission of advisor. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3370 Advanced Problems In Printmaking I: 3 semester hours

Prerequisite: ST ART 2274. This course is focused upon professional-level art and portfolio production. After completion of this and the preceding course, students should be ready to meet the artistic and intellectual demands of today's visual art world. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3371 Advanced Problems In Printmaking II: 3 semester hours

Prerequisite: ST ART 3370 A continuation of ST ART 3370. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3372 Advanced Lithography: 3 semester hours

Prerequisite: ST ART 1173 Continuing problems in lithography with problems in black and white, photolithography, and/or color. May be repeated for credit. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3380 Advanced Problems In Painting I: 3 semester hours

Prerequisite: ST ART 2281 This course is focused on professional-level art and portfolio production. Non-traditional materials might be explored. Attention is focused on individual development of painting theory, self-expression, and advanced techniques. The student is expected to assume a substantial responsibility with regard to direction, motivation, and content. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3381 Advanced Problems In Painting II: 3 semester hours

Prerequisite: ST ART 3380 A continuation of portfolio production in ST ART 3380. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3383 Advanced Problems In Graphic Design I: 3 semester hours

Prerequisite: ST ART 3311 and ST ART 2210. This course is focused on professional-level art and portfolio production. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3384 Advanced Problems In Graphic Design II: 3 semester hours

Prerequisite: ST ART 3383. A continuation of ST ART 3383. The course includes the preparation of a faculty-reviewed portfolio. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 3390 Special Study: 1-10 semester hours

Prerequisite: Junior/senior standing and consent of department chairperson and instructor. Independent study through readings, reports, or field research. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3391 Advanced Problems In Photography I: 3 semester hours

Prerequisites: ST ART 2263 and ST ART 3260. This course is focused on professional-level art and portfolio production. Students may employ black and white, color, nonsilver, or other traditional or non-traditional press for projects in this course. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 3392 Advanced Problems In Photography II: 3 semester hours

Prerequisite: ST ART 3391 A continuation of ST ART 3391. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 4389 Graphic Design Studio: 3 semester hours

Prerequisites: ST ART 3384 or permission of instructor Students will work on actual client projects in a studio setting from creative concept through client presentation. Studies will include client interviews, project planning, studio operations, project budget and estimating, vendor selection, prepress preparation, working in creative groups and professional presentations.

ST ART 4490 Senior Seminar In Photography I: 3 semester hours

Prerequisite: Senior Standing and ST ART 3392. Weekly critiques and discussions of technical and professional issues. Will instruct students in methods of portfolio display, documentation, gallery representation, grant writing, and professional preparation. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies. Offered only during Fall semester.

ST ART 4491 Senior Seminar In Photography II: 3 semester hours

Prerequisites: Senior standing and ST ART 4490. Weekly critiques and discussions of technical and professional issues. Will instruct students in methods of portfolio display, documentation, gallery representation, grant writing, and professional preparation. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies. Offered only during Spring semester.

ST ART 4495 Senior Studio Seminar: 3 semester hours

Prerequisites: Senior standing and ST ART 3381, ST ART 3341, ST ART 3392 or ST ART 3371. Weekly critiques and discussions of technical and professional issues. Will instruct students in methods of portfolio display, documentation, gallery representation, grant writing, and professional preparation. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies. Offered only during Fall Semester.

ST ART 4496 Senior Studio Seminar: 3 semester hours

Prerequisites: Senior standing and ST ART 4495. Weekly critiques and discussions of technical and professional issues. Will instruct students in methods of portfolio display, documentation, gallery representation, grant writing, and professional preparation. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies. Offered only during Winter Semester.

ST ART 4497 Senior Seminar In Graphic Design I: 3 semester hours

Prerequisites: Senior standing and ST ART 3384. Students must pass the junior portfolio review. Weekly critiques and discussions of technical and professional issues. Will instruct students in the methods of professional preparation. Lab fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies.

ST ART 4498 Senior Seminar In Graphic Design II: 3 semester hours

Prerequisites: ST ART 4497. Continuation of ST ART 4497. Will instruct students in the methods of professional preparation. Lab fee required. Basic studio equipment will be provided though students will need to supply some personal equipment and supplies.

ST ART 5590 Special Study: 1-6 semester hours

Prerequisites: Graduate standing and consent of instructor. Independent study through art making, readings, reports, or field research. Studio Art fee required. Basic studio equipment will be provided, though students will need to supply some personal equipment and supplies. May be retaken for credit with consent of instructor.

Communication

General Information

The Bachelor of Arts in Communication

The B.A. in communication is a flexible degree program that allows the student to tailor their curriculum to meet specific interests and needs while simultaneously providing a strong foundation in the major specializations of the discipline. The faculty encourages all students to meet early and often with their faculty adviser to select a meaningful group of courses for a coherent, career-oriented academic program. Students who seek this degree will, upon completion, understand how to communicate competently and effectively in a variety of contexts and mediums. In addition, students will develop a strong foundation in the theory and research underlying effective communication. Finally, students will demonstrate their competence through the internship and practicum requirements.

Minors in Communication

The Department of Communication offers a minor in Communication that can provide many benefits to students majoring in other programs (for more information, see the requirements for minors in the undergraduate studies section). The Minor in Communication can complement a variety of other degrees. Students who complete the minor will be able to

understand and apply the theories underlying competent and effective communication.

Certificate in Public Relations

The Department of Communication offers a sequence of courses that can prepare students for a successful career in public relations. This writing-intensive certificate program includes a selection of required and elective courses that integrate practical knowledge of the PR industry with the communication theory and research that undergird it. The certificate will be valuable both to those already in the workplace, and to undergraduates pursuing a public relations career. Closely aligned with the latest recommendations from the Public Relations Society of America and the National Communication Association, the curriculum will provide students with both the public relations theoretical base and practical hands-on skills necessary to succeed in public relations.

Other Certificate Programs

In addition to offering the Certificate in Public Relations, the department supports a number of certificate programs. For more information, see Certificate Programs and Interdisciplinary Studies.

Master of Arts in Communication

The Master of Arts degree program provides the opportunity for an advanced degree program in communication with a strong theory and research emphasis. Students can select courses that emphasize broad categories of communication such as organizational communication and/or mass communication. The program will help students develop a strong background in communication theory and research which would allow for the pursuit of a doctorate in communication, opportunities for professional positions, and the potential for a vertical or lateral move within an organization. Students who complete the M.A. in Communication will have a detailed understanding of the academic discipline. They will have developed critical skills for evaluating communication related theories and research, and the ability to apply that knowledge in their own research or professional settings. For further details, please see the Graduate Studies section of the Communication Department listings.

Career Outlook

The B.A. in communication prepares students for careers in numerous fields. Past graduates are working in the following positions: promotion and public relations, administration, advertising, marketing, web page design, market research, corporate media, sales, training, speech writing, teaching, and research. Other students have pursued graduate education in communication programs offering the M.A. and Ph.D. degrees.

Faculty Overview

The faculty represents many fields within the discipline of communication, including interpersonal communication, organizational communication, mass communication, public relations, and rhetoric. Most faculty members contribute to a growing body of knowledge by conducting research, publishing their results in scholarly journals, and presenting papers at national and international communication conferences. By integrating theory, research, and practice, faculty members are able to offer a comprehensive approach to contemporary communication problems.

Undergraduate Studies General Education Requirements

Majors must satisfy the university and college general education requirements (p. 28). The college's foreign language requirement may be taken in any language. Communication courses may not be taken on a satisfactory/unsatisfactory basis.

Degree Requirements Bachelor of Arts in Communication

Majors must complete a minimum of 36 semester hours in Communication courses. At least 18 of these must be taken at UMSL. Furthermore, at least 12 semester hours of the Communication courses completed must be numbered 3000-4999. All students must complete the required courses and earn a C or better in all communication courses applied to the degree.

Required courses for the major

COMM 1030 (p. 409)	Interpersonal Communication I	3
COMM 1050 (p. 409)	Introduction To Mass Communication	3
COMM 2231 (p. 409)	Communication In The Organization	3
COMM 3330 (p. 409)	Research Methods In Communication I	3
COMM 3332 (p. 409)	Intercultural Communication	3
COMM 4920 (p. 409)	Practicum In Applied Communication	1-3
COMM 4950 (p. 409)	Internship In Applied Communication	3-6
Total Hours		19-24

Department Activities and Internships

Co-curricular projects and activities relevant to the personal, professional, and academic goals of each student are sponsored and advised by the department. Along with the traditional academic experience, students can network and develop valuable experiences through their completion of required internship or practicum courses. Students may choose from a wide-range of for-profit, nonprofit, and not-for-profit organizations. Students should visit the Department of Communication for more information regarding existing opportunities, and/or consult with the Internship and Practicum Coordinator to approve a new internship site. By tailoring the internship site to the interests of each student, the internship and practicum augment the academic experience and provide valuable opportunities for majors to apply their communication studies.

Minor in Communication

Coursework for a minor in Communication consists of 15 semester hours of the core requirements for the major. Credit hours in and/or COMM 3395 (p. 409) may be substituted for credit hours listed below with written consent of the communication department chairperson.

Core Requirements:

COMM 1030 (p. Interpersonal Communication I 409)

COMM 1050 (p. 409)	Introduction To Mass Communication	3
COMM 2231 (p. 409)	Communication In The Organization	3
COMM 3330 (p. 409)	Research Methods In Communication I	3
COMM 3332 (p. 409)	Intercultural Communication	3
Total Hours		15

At least 9 of the 15 hours required for the minor must be taken at UMSL.

Students must earn at least a C for all communication courses applied to the minor. A minimum GPA of 2.5 is required in the minor.

Certificate in Public Relations

The Certificate in Public Relations integrates essential professional skills with contemporary communication theory and research to provide a grounded sequence based on the recommendations of the Public Relations Society of America and the National Communication Association. To earn the certificate, students must complete a minimum of 24 credit hours in the designated courses.

Required Coursework

	-		
	COMM 1150 (p. 409)	Introduction To Public Relations	3
	COMM 3358 (p. 409)	Communication In Public Relations	3
	COMM 3360 (p. 409)	Health Communication In Mass Mediated Contexts	3
	COMM 4035 (p. 409)	Integrated Approaches-Public Relations, Advertising, & Promotion	3
ŀ	COMM 4100 (p. 409)	Communication Campaigns	3
	COMM 4199 (p. 409)	Applied Public Relations	3
	or COMM 4950 (p. 409)	Internship In Applied Communication	
	Elective Coursew	ork (minimum of 6 credit hours required):	6
	COMM 1050 (p. 409)	Introduction To Mass Communication	
	COMM 1135 (p. 409)	Communication Theory	
	COMM 2231 (p. 409)	Communication In The Organization	
	COMM 2232 (p. 409)	Effective Communication In The Organization: Tools For Leadership	
	COMM 2240 (p. 409)	Persuasive Communication	
	COMM 3330 (p. 409)	Research Methods In Communication I	
	COMM 3395 (p. 409)	Special Topics In Communication	
	Total Hours		24

For more information on this certificate, please contact the Department of Communication's Public Relations Sequence Coordinator.

Bachelor of Arts in Communication with Certification in Secondary Education

In addition to the requirements for the B.A. in communication and general requirements set by the College of Education, students must meet the state requirements for certification.

The B.A. and certification for grades 7-12 can be completed by taking a minimum of 39 hours in communication, selected according to departmental recommendations. The B.A. and certification for grades 7-9 can be obtained by taking 36 hours in communication, selected according to departmental recommendations. Requirements of the College of Education include courses in professional education.

Graduate Studies

The department offers a Master of Arts degree in Communication.

Admission Requirements

Applicants must have a baccalaureate in communication or a related discipline by the end of the semester in which they apply. The minimum cumulative GPA required for regular admission to the graduate program in communication is 3.25 on a 4-point scale. In addition three letters of recommendation, at least two of which address the applicant's potential to succeed in graduate studies in communication, are also required. Finally, International students who are non-native speakers of English must obtain a TOEFL score of 600 on the paper-based test (or the equivalent score on other versions of the test) to be considered for admission. Applicants with GPAs that do not meet the admission criterion may elect to take the Graduate Record Exam (GRE) to offset these deficiencies. Contact the Graduate Program Coordinator for more information.

Degree Requirements

The MA in Communication requires either 30 or 36 credit hours of coursework, depending on the exit project. Candidates approved for a thesis or internship will complete at least 30 semester hours of approved study, at least 21 of which must be taken in courses offered by the department. Candidates completing the non-thesis, non-internship option must complete 36 semester hours of approved study, 27 of which must be taken in courses offered by the department.

Communication

COMM 6500 (p. 409)	Seminar In Communication Theory	3
COMM 6510 (p. 409)	Advanced Communication Research Methods I	3
COMM 6515 (p. 409)	Advanced Communicatin Research Methods II	3
COMM 6600 (p. 409)	Seminar In Organizational Communication	3
COMM 6700 (p. 409)	Seminar In Mass Communication	3

After consultation with the graduate coordinator the student selects either a 36 hour or 30 hour program and, in the latter case, develops an appropriate exit project with input from prospective committee members. The expectation for each internship varies by project and committee, but submission of an essay in which the coursework and internship experiences are integrated is typically required. Internship exit projects and theses must be approved by the student's committee and assigned

a grade by the advisor. The candidate must pass an oral examination conducted by student's committee regardless of exit option selected.

Students who complete a thesis or internship must complete no less than a 3 hour internship or 6 credit hour thesis.

Graduate Certificate: ACP Instructional Communication

The ACP Instructional Communication Certificate is designed for secondary educators interested in teaching public speaking and related courses to high school students for college credit through programs such as UMSL's Advanced Credit Program. The certificate combines practical application with theory and research to provide teachers with a grounded approach to delivering college appropriate courses with empirical research in communication at the foundation.

Through a combination of online courses and independent studies, students can complete the ACP Communication graduate certificate without visiting campus.

Students who earn the ACP Instructional Communication graduate certificate will be eligible to teach college level courses in public speaking at the secondary level.

Requirements: Graduate Standing. To earn the ACP Communication certificate, students must complete a minimum of 18 hours. Typically, students will earn the certificate by completing the following courses in sequence ¹:

COMM 5000 (p. 409)	ACP - Elements of Public Speaking ([R])	3
COMM 5010 (p. 409)	ACP: Elements of Debate ([R])	3
COMM 5020 (p. 409)	ACP - Persuasion and Influence ([R])	3
COMM 5050 (p. 409)	ACP - Special Topics ([E]) ^{2,3}	3-6
COMM 5099 (p. 409)	ACP - Observation and Implementation ([R]) 2	3
Total Hours		15-18

- Other 5000+ electives may be substituted based on approval and availability. Contact the Graduate Coordinator in the Department of Communication for more information.
- Pre-requisites: Students must have completed or currently be enrolled in each of the following courses: COMM 5000 (p. 409), COMM 5010 (p. 409), COMM 5020 (p. 409)
- May be repeated.
- [R] Required for the certificate.
- [E] Elective.
- Other 5000+ electives may be substituted based on approval and availability. Contact the Graduate Coordinator in the Department of Communication for more information.
- Pre-requisites: Students must have completed or currently be enrolled in each of the following courses: COMM 5000, COMM 5010, COMM 5020
- May be repeated.

[R] Required for the certificate.

[E] Elective.

Courses

COMM 1000 Effective Communication for College: 3 semester hours

A communication by objective approach is used to introduce students to effective communication in a college environment. Emphasis is placed on preparing and delivering effective messages whether written or spoken, formal or informal, digital or hardcopy.

COMM 1030 Interpersonal Communication I: 3 semester hours Introduction to the theories of interpersonal communication. Emphasis on basic principles involved in one-to-one interactions.

COMM 1040 Introduction To Public Speaking: 3 semester hoursTheories and techniques of organization, argumentation, persuasion and delivery in public speaking.

COMM 1041 Presentational Speaking: 3 semester hours

Theories and techniques of presenting information in various contexts, formats, and settings. Emphasis is placed on strategic coordination for message effectiveness in a team-based environment.

COMM 1050 Introduction To Mass Communication: 3 semester hours Introduction to oral, print, and electronic media of communication, including emerging digital formats. The course covers the major theories of mass communication effects as well as the social, organizational, economic, political, and technological factors that shape the creation and reception of mass media messages.

COMM 1095 Seminar In Communication: 3 semester hoursPrerequisite: Consent Of Instructor. In-Depth Treatment Of Topics
Pertaining To Current Research In The Department Or Otherwise Of Timely Interest To Students Or Faculty.

COMM 1135 Communication Theory: 3 semester hoursSurvey of elements and processes critical to human communication behavior. Comparison of influential communication theories.

COMM 1150 Introduction To Public Relations: 3 semester hoursPublicity methods and public relations representation of profit and nonprofit institutions to the public; use of communication research and media, as applied to the public relations profession.

COMM 1920 Applied Communication: 3 semester hours

Prerequisites: Consent of instructor. An intermediate experience in applied communication on UMSL's campus, such as the school newspaper or radio station. Work must be done on campus, under supervision of a working professional, and in consultation with a faculty member. Repeatable, but no more than six hours of credit may be applied toward the 36-hour minimum required for the degree.

COMM 2230 Small Group Communication: 3 semester hoursDevelopment of communication skills needed in small group decision-making. Application of these skills in contemporary problems.

COMM 2231 Communication In The Organization: 3 semester hoursCourse integrates communication theories applicable to the structure and function of organizations. The effect of communication variables on departmental interface, member satisfaction and motivation, leadership and subordinate styles, and perception of the organization by the external environment.

COMM 2232 Effective Communication In The Organization: Tools For Leadership: 3 semester hours

This telecourse is designed to equip students with communication skills applicable to the organizational context. The course will present effective strategies for the articulation of ideas, with particular emphasis on the development of leadership skills.

COMM 2240 Persuasive Communication: 3 semester hours

A study of persuasive communication including theories, tehniques, forms, functions, applications, potential and limitations for individual and organizations. Insights from both classical rhetoric and contemporary communication theory.

COMM 2243 Communication In American Politics: 3 semester hoursAnalysis of audience response and media preferences in political campaigns, campaign speeches, candidates' uses of teleision and oth mass media, and measuring effectiveness of campaign communications.

COMM 2250 Strategic Communication: 3 semester hours

Prerequisites: COMM 1135, or consent of the instructor. Principles of message construction in oral, written, and/or mediated communication. Emphasis is placed on logical reasoning, audience analysis, message structure, and attainment of communication goals.

COMM 3130 Advanced Interpersonal Communication: 3 semester hours

Prerequisite: COMM 1030. Continuation of COMM 1030, focusing on contemporary theories and research regarding interpersonal relationships.

COMM 3150 Crisis, Disaster, and Risk Communication: 3 semester hours

Prerequisites: Junior standing or consent of instructor. Course will focus on three specialized areas within public relations: communication methods and infrastructure in relation to large-scale disaster management; organizational crisis communication; and public communication regarding environmental, chemical and other public risk issues.

COMM 3330 Research Methods In Communication I: 3 semester hours

Introduction to the fundamental tools of quantitative research in communication. Focus of the course is on reading and comprehending communication research reports rather than conducting quantitative research.

COMM 3332 Intercultural Communication: 3 semester hours

Prerequisite: Junior standing or consent of the instructor. Study of culture as a variable in both interpersonal and collective communicative situations. Emphasis upon opportunities and problems arising from similarities or differences in communication patterns, processes, and codes among various cultural groups.

COMM 3337 Male/Female Communication: 3 semester hours

Prerequisite: Junior standing or consent of instructor. This course explores the influence of gender upon conetmporary American communication behavior. Topics include semantic and syntactic variations in male and female speech, gender-role development as process and product of communication, analysis of communication patterns and barriers within gender groups. Mass, public, interpersonal, and dyadic communication contexts are considered.

COMM 3342 Modern Rhetoric And Public Address: 3 semester hoursPrerequisite: COMM 1040 or consent of instructor. A survey of the history and theories of persuasion and public address form the post-renaissance era to the present.

COMM 3350 Physiological Measurement in Communication: 3 semester hours

Prerequisite: COMM 1135, COMM 3330, junior standing or consent of the instructor. Overview of physiological measurement techniques found in classic and contemporary communication research. Conceptual and practical elements are emphasized.

COMM 3352 Mass Media in Society: 3 semester hours

Prerequisites: COMM 1050. Examination and evaluation of theories and literature concerning media content and its effect on society. Topics include the evidence relating to the effect of entertainment and information media on audiences' behavior and attitudes, the factors that contribute to individual differences in responses to media content, and the ways the organizational structure of the media industries shape the type of content that is produced.

COMM 3358 Communication In Public Relations: 3 semester hoursPrerequisites: COMM 1150. An overview of communication within the area of public relations. Emhasis on ethics, law, professinal standards and written communication. Case study approach.

COMM 3360 Health Communication In Mass Mediated Contexts: 3 semester hours

Prerequisites: COMM 1050 or consent of the instructor Examination of the theories and literature dealing with the role of mass media in health behavior. Topics include health promotion and prevention campaigns and the effect of news and entertainment media on health behaviors.

COMM 3361 Health Communication In Interpersonal And Organizational Contexts: 3 semester hours

Prerequisites: COMM 1030 and COMM 2231, or consent of the instructor Examination of the theories and literature dealing with the role of interpersonal and organizational communication in health behavior and health care. Topics include interpersonal communication within health-care settings, the influence of family communication on health behaviors, and communication within health care organizations.

COMM 3362 Storytelling: 1-3 semester hours

Prerequisite: Junior standing or consent of instructor. This course gives a brief overview of the history of storytelling, types of tales, and appropriate uses for storytelling. The primary emphasis of the course is in developing storytelling skills through preparation, performances, and evaluation.

COMM 3392 Administration Of Co-Curricular Activities: 3 semester hours

Prerequisites: COMM of 1040 or consent of instructor. A survey of the skills required to administer the various co-curricular activities associated with teachers who teach speech and communication courses in the secondary schools. Practical experience in skills such as: operation of debate tournaments, public speaking competitions, and mock trial competitions.

COMM 3395 Special Topics In Communication: 3 semester hours In-depth study of topics pertaining to current research in the department. May be repeated up to six credit hours if topic is different.

COMM 3400 Language And Behavior: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. Examination of language and behavior which includes etiological considerations, functions, meanings, perceptions, and process-interaction rules.

COMM 3410 Nonverbal Communication: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. An examination of the paralinguistic cues that accompany normal communication such as facial expression, eye behavior, gestures and body movements, accents and dialects, and the impact of touch, among others. The implications for message construction, delivery, and perception are discussed.

COMM 3500 Dysfunctional Communication: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. An examination of some of the factors that impede effective communication. Emphasis is placed both on individual attributes such as verbal aggression and communication apprehension, as well as context-based factors found in family and romantic relationships, among others.

COMM 3510 Communication & Conflict: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. An examination of the features that contribute to effective and ineffective communication during conflicts. The course integrates communication research and theory with practical applications in negotiation and conflict resolution.

COMM 3520 Communication Barriers and Children: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. A review of communication research on developmental difficulties and other barriers that impair or impede communication with children. Theories of communication, language development, acquisition, adaptation, correction, and implementation are discussed.

COMM 3600 Communication and Families: 3 semester hours

Prerequisites: COMM 1030, junior standing or consent of the instructor. An analysis of research and theory involving communicative attributes and phenomena unique to the family context. Communication between parentchild, siblings, and extended family members, as well as more complex family structures are addressed. Functional and effective communication techniques are also discussed.

COMM 3610 Communication and Relationships: 3 semester hours

Prerequisites: Comm 1030, junior standing or consent of the instructor. An examination of the contributions of communication researchers to the study of developing and maintaining human relationships with particular focus on communication in friendships and romantic relationships.

COMM 3700 Computer-Mediated Communication: 3 semester hours

Prerequisites: COMM 1030, COMM 1050, junior standing or consent of the instructor. A comparison of the similarities and differences between face-to-face communication and computer-mediated communication. Synchronous and asynchronous methods of interaction are examined, as well as other characteristics unique to the digital environment.

COMM 3800 Trends in Mass Communication: 3 semester hours

Prerequisites: COMM 1050, junior standing or consent of the instructor. A theoretical and research-based examination of popular trends in mass communication. May be repeated once if topics are different.

COMM 4035 Integrated Approaches-Public Relations, Advertising, & Promotion: 3 semester hours

Prerequisites: COMM 3358 or consent of instructor. Overview of how publicity, advertising and other promotional activities can be integrated into a single cohesive communication initiative or program.

COMM 4100 Communication Campaigns: 3 semester hours

Prerequisite: COMM 1030, COMM 1050, COMM 1150 and junior standing or consent of the instructor. This course focuses on the design, analysis, and implementation of mass communication-based information campaigns by integrating research and theory from interpersonal , mass communication, and public relations.

COMM 4199 Applied Public Relations: 3 semester hours

Prerequisites: COMM 1150, COMM 3358, COMM 4035, and junior standing or consent of the instructor. This course provides students with an applied experience in public relations. The course may require on-site visits to private firms and/or the development of multi-year strategic plans.

COMM 4900 Directed Readings: 3 semester hours

Prerequistie: Consent of instructor. Supervised independent study focused on discipline-relevant content that expands on concepts and theories presented in communication courses. May be repeated for credit.

COMM 4910 Supervised Research: 1-3 semester hours

Prerequisites: Consent of instructor. Supervised field, laboratory, or survey research experience that includes activities such as data collection, literature searches, qualitative or quantitative data analysis, survey or experiment administration, and other research related activities. May be repeated with consent of department.

COMM 4920 Practicum In Applied Communication: 1-3 semester hours

Prerequisite: Junior standing, at least 12 hours of course work in Communication, and consent of instructor; open to Communication majors/minors. Practicum work experience with any discipline-relevant unit at UMSL including, but not limited to: the offices of students affairs, public relations, and research administration; the school newspaper or radio station'; and intra-departmental activities. Work must be done on campus, under supervision of a working professional in the field, and in consultation with a faculty member. Repeatable, but no more than six hours total credit may be earned in practicum courses toward the 36-hour minimum required for the degree.

COMM 4950 Internship In Applied Communication: 3-6 semester hours

Prerequisites: Senior standing with at least 12 hours of course work in Communication, consent of instructor; open to communication majors only. Advanced practical work experience emphasizing communication skills with any discipline-relevant entity. Experiences may include organizational and promotional activities, mass communication, public relations, research and writing, strategic communication, or training and development. Internships are off-campus and proposed sites must be approved by the department. Work must be done under supervision of a working professional in the filed, and in consultation with a faculty member. Repeatable, but nor more than six hours total credit may be earned in internship courses toward the 35-hour minimum required for the degree.

COMM 5000 ACP - Elements of Public Speaking: 3 semester hoursPrerequisites: Graduate Standing, Special Consent. This course focuses on the delivery of theory and research based public speaking content for teachers seeking certification to teach communication courses for the Advanced Credit Program.

COMM 5010 ACP: Elements of Debate: 3 semester hours

Prerequisites: Graduate Standing, Special Consent. This course focuses on developing a comprehensive understanding of the theory and research typically taught in college level forensics and debate courses. Designed for teachers seeking certification to teach communication courses for the Advanced Credit Program.

COMM 5020 ACP - Persuasion and Influence: 3 semester hours

Prerequisites: Graduate Standing, Special Consent. This course focuses on developing a strong background in the research and theory that underlies attempts to persuade and influence others through the use of effective communication. Designed for teachers seeking certification to teach communication courses for the Advanced Credit Programs.

COMM 5050 ACP - Special Topics: 3-6 semester hours

Prerequisites: COMM 5000, COMM 5010, and COMM 5020, Special Consent. This rotating topic course focuses on developing knowledge of communication theory and research applicable to the context of teaching public speaking and debate. Topics may include such issues as nonverbal communication, conflict communication, and argumentation, among others. Designed for teachers seeking certification to teach in the Advanced Credit Program. May be repeated for a maximum of 6 credit hours.

COMM 5099 ACP - Observation and Implementation: 3 semester hours

Prerequisites: COMM 5000, COMM 5010, COMM 5020 and COMM 5050, Special Consent. Provides a capstone experience for teachers seeking to teach communication courses in the advanced credit program. While enrolled, participants will implement an ACP course in their school under the supervision of the Communication Department's advanced Credit Program Liaison.

COMM 6500 Seminar In Communication Theory: 3 semester hours

Prerequisite: Graduate standing. Examination of the theoretical, methodological, and philosophy of science issues in the discipline of communication. Examines general, micro, contextual, and interdisciplinary (symbiotic) communication theories. Required of all graduate communication students.

COMM 6510 Advanced Communication Research Methods I: 3 semester hours

Prerequisites: Graduate standing. Concerns the logic and forms of communication inquiry including an examination of various communication research and evaluation methods and their theoretical frameworks. Topics include communication research strategy and methodology, scientific process, derivation and test of hypotheses, methods of research design. Provides and orientation to graduate research including proposal development for thesis, internship and paper requirements, and includes a theory-based research project of the student's choice. Required of all graduate communication students.

COMM 6515 Advanced Communicatin Research Methods II: 3 semester hours

Prerequisite: COMM 6510 or permission of instructor. Overview of the most commonly utilized methods in quantitative data analysis statistical methods in communication with an emphasis on understanding how the statistic is reported in scholarly articles and when to use that method, rather than in the mathematical computation of the method. Topics include: descriptive statistics, single and multi-factor analysis of variance, simple and multiple linear regression, basics of nonlinear regression, analysis of categorical data, meta-analysis, and non-parametric statistical methods. Required of all graduate communication students.

COMM 6600 Seminar In Organizational Communication: 3 semester hours

Prerequisite: Graduate standing. Explores communication theories and topics related to organizational institutional, and social system contexts and reviews the communication literature on behavior in organizations. Emphasizes a case study approach to the communication strategies used by agencies and corporations. Required of all graduate communication students

COMM 6700 Seminar In Mass Communication: 3 semester hours

Prerequisites: Graduate Standing. Examines the communication research literature pertaining to media industries, content, and effects. A broad range of media forms and possible effects are considered.

COMM 6750 Media Reception Processes: 3 semester hours

Prerequisites: COMM 6510 or permission of instructor. Examines how audiences select, interpret, and respond to media messages. Students, typically in a group, are involved in developing and carrying out a research study investigating the topic.

COMM 6810 Communication Systems and Technology: 3 semester hours

Prerequisite: Graduate Standing Examines innovations in modern communications tecnologies, their impacts on individuals and society, and their implications for communication research and practice.

COMM 6815 Persuasion and Influence in Communication: 3 semester

Prerequisite: Graduate Standing. Broad-based examination of the major theories of social influence and persuasion and their practical applications.

COMM 6830 Seminar In Special Topis In Communication: 3 semester hours

Prerequisite: Graduate Standing. Selected topics in the study of communication. Review of the communication theory and methods appropriate to the topic. The course includes a research project. May be repeated if the topic is different.

COMM 6900 Directed Readings In Communication: 1-6 semester hours

Prerequisite: Graduate Standing and consent of instructor. Independent study of published research and reports relating to a specific topic in communication. May be repeated for credit with permission of advisor.

COMM 6910 Supervised Research In Communication: 1-3 semester hours

Prerequisites: Graduate Standing and consent of instructor. Primary research on specific topics in communication. May involve collaborative research with a faculty member on a topic of mutual interest or data collection/analysis for a project developed by the student under the guidance of a faculty member. May be repeated for credit with permission of advisor.

COMM 6920 Practicum In Computer-Mediated Communication: 1-3 semester hours

Prerequisites: Graduate standing and consent of program director. Applied practice or research in collaboration with a faculty member.

COMM 6950 Graduate Internship: 3-6 semester hours

Prerequisites: Graduate standing and approval of graduate coordinator. Individual on-site internship in organizational or mass communication. May be repeated.

COMM 6960 Thesis Research And Preparation: 1-10 semester hoursPrerequisites: Graduate Standing and consent of instructor. Individual research for and preparation of the graduate thesis.

Music

Performing Ensembles

Membership in Music Department performing ensembles (choral, orchestral, concert and pep band, jazz, chamber, etc.) is open to UMSL students in all majors and minors. Admission to most ensembles is by audition (consent of the instructor). EN PER 1400, University Chorus, is open to all university students without audition.

General Information Degrees and Areas of Concentration

The Department of Music offers programs of study leading to the B.M. degree in music education (and state teaching certification in grades K-12); the B.M. degree with an emphasis in performance; the B.M. degree with an emphasis in theory/composition; the B.M. degree with elective studies in business; and the B.A. degree in music.

Instruction in piano, organ, voice, and all band and orchestral instruments is given by full-time faculty and adjunct faculty who are also professional musicians. Some are members of the St. Louis Symphony Orchestra. Faculty recitals are regularly scheduled.

Music Minors

A minor in music is available.

Facilities

The Department's facilities, classrooms, studios, practice rooms, and listening labs are located in the Music Building. Rehearsal rooms are in the Villa. Performance spaces are in the Touhill Performing Arts Center.

Ensembles

Fourteen performing ensembles are open to all by audition with credit optional:

EN PER 1400	University Chorus	1
EN PER 1410	The University Singers	1
EN PER 1420	University Concert Band	1
EN PER 1500	University Orchestra	1
EN PER 1520	University Symphonic Band	1
EN PER 1530	University Wind Ensemble	1
EN PER 1541	Chamber Ensemble Brass	1
EN PER 1542	Jazz Combo	1
EN PER 1543	Chamber Ensemble Percussion	1
EN PER 1544	Chamber Ensemble Strings	1
EN PER 1545	Chamber Ensemble Voice	1
EN PER 1546	Chamber Ensemble Woodwinds	1
EN PER 1550	Jazz Ensemble	1
EN PER 1560	Opera Workshop	1

Each year more than 100 student recitals and concerts are presented.

Additional information may be obtained by contacting the Department of Music: (314) 516-5980.

Career Outlook

A music degree builds the foundation for a career in professional performance, for teaching in a school or private studio, or for serving as a church music director. A music degree may also prepare one for positions in the music industry (recording, publishing, radio programming, manufacturing, or music retail). A trained artistic mind can also be valuable in the fields of advertising, public relations, and consumer services.

A number of UMSL music graduates have been readily accepted into outstanding graduate programs, including our own Master of Music Education degree program. Many are pursuing successful careers in music education, business, and industry, or as professional performers.

Faculty Overview

Music faculty members have received recognition for distinguished achievements in conducting, composition, and performance. The faculty is also recognized for research in musicology, music theory, and music education. Part-time applied music lecturers are professional musicians.

The Department of Music is accredited by the National Association of Schools of Music.

Undergraduate Studies General Education Requirements

General education requirements (p. 28) apply to all majors, except that students in the B.M. with elective studies in business and B.M. in music education degree programs are not required to take a foreign language. Courses required for degree programs may not be taken on a satisfactory/unsatisfactory basis. Students must receive at least a C in each music course and maintain an overall GPA of 2.5 in all music courses to meet degree requirements.

Non-music majors may complete no more than 8 hours in music-performing organizations (EN PER 1400, University Chorus; EN PER 1410, University Singers; EN PER 1420, University Concert Band; EN PER 1500, University Orchestra; EN PER 1520, University Symphonic Band, et. seq.) toward graduation, including credit transferred. Courses in applied music (private lessons and performing organizations) do not fulfill the humanities general education requirement. M H L T 1150, Drumming Cultures of the World; M H L T 1160, Musical Journey through Latin America; M H L T 1170, Musical Journey through the Far East; or M H L T 1180, Musical Journey through Africa will meet the non-Euro-American study requirement.

General Education Learning Outcomes for Music Students

- Students will demonstrate enhanced aesthetic appreciation and musical discrimination.
- Students will demonstrate knowledge of a wide range of world music.
- Students will demonstrate knowledge of relationships among the arts, societal influences on music and musical influences on society.

Degree Requirements

Admission to all music degree programs is by audition and interview to demonstrate musical aptitude and potential, moderate technical proficiency, and seriousness in selecting music as a four-year course of study. In addition to the applied music audition, placement examinations in music theory and music history may be required to confirm students' prior experience in these areas. Auditions are scheduled from January to May for the fall semester; a limited number are held in December for the spring/ winter semester. Students in applied music must pass a junior-standing examination to confirm their level of performance skills for enrollment in AP MUS 3440 (p. 415) – AP MUS 3459 (p. 415) or AP MUS 4440 (p. 415) – AP MUS 4459 (p. 415). This examination is usually taken at the same time as the applied music jury for the fourth semester of enrollment in AP MUS 1440 (p. 415) - AP MUS 1459 (p. 415).

Evidence of sound musicianship, a close acquaintance with an appropriate portion of musical literature, and the ability to bring it to actual performance are required for graduation in all music degree programs. Students in the bachelor of music-performance emphasis fulfill this requirement with junior

and senior recitals. Those in all other degree programs must satisfy the requirement by participating in three regularly scheduled student recitals during the last two semesters of applied music study, or by performing for a special jury of faculty members. The faculty may invite students who are not in the bachelor of music-performance emphasis program to give public senior recitals with the recommendation of the applied music instructor.

Music majors are required to enroll in an approved ensemble (University Symphonic Band, University Wind Ensemble, University Singers, University Chorus, or University Orchestra) each semester, to study one applied area progressively each semester, and to enroll in the appropriate pedagogy and literature seminar each semester of the degree program. Music education majors are exempt from these requirements during the student teaching semester. The following specific ensemble enrollments, depending upon the applied music area, are required:

- · Wind and percussion students—University Symphonic Band;
- · string students--University Orchestra;
- voice students--University Singers (or by special permission, University Chorus);
- keyboard and guitar students--any approved ensemble, but those in the bachelor of music in music education program must successfully audition for and enroll in an ensemble compatible with the teaching certification they are pursuing.
- Instrumental students may be required to participate in additional ensembles to enhance their musical development.

Majors are required to appear in performance at the department's discretion and to attend a prescribed number of departmental recitals. Non-keyboard players are required to pass an exam in piano proficiency: PRACTM 2180 (p. 415), Piano Proficiency IV, or equivalent for instrumentalists, or PRACTM 3290 (p. 415), Piano Proficiency IV, or equivalent for vocalists.

The music department may require students to pass a placement test to enroll in the next level course, provided this or an equivalent test is administered to all students seeking to enroll in that course.

Core Curriculum

The following core courses are required for all music majors:

Music Theory

	THRY COM 1300 (p. 415)	Introduction to Music Theory	1
	THRY COM 1301 (p. 415)	Theory Of Music I	3
	THRY COM 1302 (p. 415)	Aural Training I	1
	THRY COM 1311 (p. 415)	Theory Of Music II	3
	THRY COM 1312 (p. 415)	Aural Training II	1
	THRY COM 2301 (p. 415)	Theory Of Music III	3
	THRY COM 2302 (p. 415)	Aural Training III	1
	THRY COM 2311 (p. 415)	Theory Of Music IV	3
	THRY COM 2312 (p. 415)	Aural Training IV	1

2

2

THRY COM 3410 (p. 415)	Orchestration	3
Piano Proficienc	у	
PRACTM 1140 (p. 415)	Piano Proficiency I	1
PRACTM 1150 (p. 415)	Piano Proficiency II	1
PRACTM 2160 (p. 415)	Piano Proficiency III	1
PRACTM 2180 (p. 415)	Piano Proficiency IV	1
Music History an	nd Literature	
M H L T 1010 (p. 415)	History Of Western Music I	3
M H L T 1020 (p. 415)	History Of Western Music II	3
Select at least one	e upper level history course 4000 – 4280.	3
Applied Music		
AP MUS 1460 (p. 415)	Seminar In Pedagogy And Literature	0
AP MUS 3460 (p. 415)	Seminar In Pedagogy And Literature	0
AP MUS 4460 (p. 415)	Seminar In Pedagogy And Literature	0
Total Hours		33

In addition to the core curriculum, students must fulfill the requirements for the specific degree program or emphasis area as listed below:

Learning Outcomes for All Music Degrees

- Students will demonstrate the solo and ensemble performance skills necessary to become a professional musician.
- Students will demonstrate knowledge in music theory, music history, and music literature, necessary to become a professional musician.
- Students will demonstrate the ability to speak and write clearly and effectively about music.

Bachelor of Arts in Music

In addition to the required core curriculum, candidates must complete the following:

Select one of the following:	3
M H L T 1150 Drumming Cultures of the World (p. 415)	
M H L T 1160 Musical Journey through Latin America (p. 415)	
M H L T 1170 Musical Journey through the Far East (p. 415)	
M H L T 1180 Musical Journal Through Africa (p. 415)	
PRACTM 2510 Conducting I (p. 415)	2
PRACTM 3920 Senior Research (p. 415)	2-4
Applied Area	
Private lessons	8

Ensemble	
Ensemble (4 hours maximum credit)	4
Foreign Language	13
Candidates for the B.A. degree in Music are required to complete 13	13
credit hours or the equivalent in proficiency in one foreign language. $^{\rm 1}$	
Total Hours	45-47

Please see the College of Fine Arts and Communication's Baccalaureate Degree Requirements for additional information about the foreign language requirement.

Bachelor of Music in Music Education

In addition to the required music core curriculum, candidates must complete the following:

Other General Education Requirements 1

Communication Skills

Select at least two courses in English composition and one in oral communications.

Social Studies

Courses in American history, American government and general psychology.

Applied Area

7 credit hours of private lessons

Practicum

PRACTM 2510 Conducting I 2 (p. 415)

Instrumental Certification PDGOGY 1250 Brass Techniques (p. 415) PDGOGY 1260 Woodwind Techniques (p. 415)

(ρ. +10)		
PDGOGY 1270 (p. 415)	String Techniques	2
PDGOGY 1280 (p. 415)	Percussion Instrumental Techniques	2
PRACTM 2610 (p. 415)	Instrumental Literature Laboratory	1
PRACTM 3521	Conducting II - Instrumental	2

Vocal Certification ²

(p. 415)

PRACTM 1250 (p. 415)	Singer's Diction: English, Italian And German	1		
PRACTM 1260 (p. 415)	Singer's Diction: Latin, French, And Spanish	1		
PRACTM 2611 (p. 415)	Elementary School Choral Literature Laboratory	1		
PRACTM 3190 (p. 415)	Piano Proficiency V	1		
PRACTM 3290 (p. 415)	Piano Proficiency VI	1		
PRACTM 3522 (p. 415)	Conducting II - Choral	2		
PRACTM 3621 (p. 415)	Junior-Senior High School Choral Literature Laboratory	1		

THRY COM 3420 (p. 415)	THRY COM 3420 Choral Arranging (p. 415)				
Ensemble					
Ensemble (4 hour	s maximum credit)				
Curriculum and I	Methods of Teaching				
MUS ED 3570 (p. Curriculum And Methods Of Teaching Elementary 415) School Music ⁴		3			
MUS ED 3670	Philisophic and Practical Foundations of the Secondary Music Education				
Instrumental Certification					
MUS ED 3680 (p. 415)	Curriculum And Methods Of Teaching Instrumental Music I	2			
MUS ED 3700 (p. 415)	Curriculum And Methods Of Teaching Instrumental Music II	2			
Vocal Certification					
MUS ED 3690	Curriculum and Methods of Teaching Middle				
	School/Junior High School General Music ³				
MUS ED 3710 (p. Curriculum And Methods Of Teaching Second 415) Choral Music		2			
Proficiency Exan	1				

Students working toward certification in choral/vocal or instrumental music K-12 are required to pass a keyboard proficiency examination before admission to student teaching in music, usually before or during the sixth semester of their program.

- All of the courses in the General Education Requirement Area must be a minimum of two semester hours.
- Vocal certification students whose applied area is not voice must consult an advisor for additional courses.
- This course will not be offered in 2013-2014. Contact department for more information.
- Must be taken in residence before enrolling in SEC ED 4993 (p. 415) and SEC ED 4994 (p. 415).

Professional Education and Student Teaching

Level I Courses

TCH ED 2209 (p. 415)	Foundations of Teaching in American Schools	3
ED PSY 2212 (p. 415)	Introduction To Learners And Learning	3
Level II Courses		
TCH ED 3313 (p. 415)	Psychology of the Exceptional Child	3
ED PSY 3312 (p. 415)	Psychology of Learning, Instruction, and Assessment	3
ECH ED 4320 (p. 415)	Classroom Management	3
or ELE ED 4320 (p. 415)	Classroom Management	
or SEC ED 4320 (p. 415)	Classroom Management	
or SPEC ED 4320 (p. 415)	Classroom Management	

TCH ED 4391 (p. 415)	Literacy for Adolescent Learners in Content Areas	3
Level III Courses	•	
SEC ED 4993 (p. 415)	Student Teaching In Music K-6	6
SEC ED 4994 (p. 415)	Student Teaching In Music, 7-12	6
Total Hours		30
Level I Courses		
TCH ED 2209	Foundations of Teaching in American Schools	3
	G	_
ED PSY 2212	Introduction To Learners And Learning	3
Level II Courses		
TCH ED 3313	Psychology of the Exceptional Child	3
ED PSY 3312	Psychology of Learning, Instruction, and Assessment	3
ECH ED 4320	Classroom Management	3
or ELE ED 4320	Classroom Management	
or SEC ED 4320	Classroom Management	
or SPEC ED 4320	Classroom Management	
TCH ED 4391	Literacy for Adolescent Learners in Content Areas	3
Level III Courses		
SEC ED 4993	Student Teaching In Music K-6	6
SEC ED 4994	Student Teaching In Music, 7-12	6
Total Hours		30

Learning Outcomes for Music Education Students

- · Students will demonstrate the solo and ensemble performance skills necessary to become a professional music educator.
- · Students will demonstrate knowledge in music theory, music history, and music literature, necessary to become a professional music
- · Students will demonstrate pedagogical skills and knowledge of resources to become a professional music educator.
- · Students will demonstrate the ability to speak and write clearly and effectively about music.

Bachelor of Music with an Emphasis in Performance

In addition to the required music core curriculum, candidates must complete the following:

Select one of the	following:	3
M H L T 1150 (p. 415)	Drumming Cultures of the World	
M H L T 1160 (p. 415)	Musical Journey through Latin America	
M H L T 1170 (p. 415)	Musical Journey through the Far East	
M H L T 1180 (p. 415)	Musical Journal Through Africa	
PDGOGY 1560 (p. 415)	Piano Pedagogy (keyboard students only)	2

PRACTM 1250 Singer's Diction: English, Italian And German (voice 1 (p. 415) majors only)			
PRACTM 1260 (p. 415)	Singer's Diction: Latin, French, And Spanish (voice majors only)	1	
PRACTM 2510 (p. 415)	Conducting I	2	
THRY COM 3110 (p. 415)	Analysis Of Music from 1900 to Present	2	
THRY COM 3120 (p. 415)	Tonal Counterpoint	2	
PRACTM 3190 (p. 415)	Piano Proficiency V (voice majors only)	1	
PRACTM 3290 (p. 415)	Piano Proficiency VI (voice majors only)	1	
PRACTM 3521 (p. 415)	Conducting II - Instrumental	2	
or PRACTM 3522 (p. 415)	Conducting II - Choral		
PRACTM 3920 (p. 415)	Senior Research	2-4	
Music History an	d Literature		
Select an additional upper level course M H L T 4000 (p. 415)-4280.			
Applied Area ¹			
Applied Music, including 8 credit hours of AP MUS 4440 (p. 12			
415)-4459 level, ir	ncluding required junior and senior recitals.		
Ensemble			
Large Ensemble (4 hours maximum credit) 4			
Chamber Ensemble/Accompanying 6			
Foreign Language			

Foreign Language

Candidates pursuing this emphasis area with an applied area in voice must complete two semesters of one foreign language selected from French, German, or Italian

Total Hours

Students in Applied Music must pass a junior-standing exam to confirm their level of performance skills for enrollment in AP MUS 4440 (p. 415) - AP MUS 4459 (p. 415).

Bachelor of Music: Theory/Composition

Each candidate will choose one of the following tracks:

- Composition
- · Music theory

In addition to the required music core curriculum, all candidates must complete the following:

Theory and Composition

THRY COM 3110 Analysis Of Music from 1900 to Present (p. 415)	2
THRY COM 3120 Tonal Counterpoint (p. 415)	2
THRY COM 3420 Choral Arranging (p. 415)	2

Music History and Literature

An additional upper level course MHLT 4000- MHLT 4280 is required.

Practicum

PRACTM 2510 (p. 415)	Conducting I	2
PRACTM 3521 (p. 415)	Conducting II - Instrumental	2
or PRACTM 3522 (p. 415)	Conducting II - Choral	
PRACTM 3190 (p. 415)	Piano Proficiency V	1
PRACTM 4100 (p. 415)	Senior Project in Theory/Composition	2-4
Students following courses:	the Composition track will also take the following	
THRY COM 3300 (p. 415)	Seminar In Composition (two semesters)	2
THRY COM 3310 (p. 415)	Studio Composition	1
Students following courses:	the Music Theory track will also take the following	
THRY COM 3130 (p. 415)	Advanced Analytical Techniques	2
THRY COM 3140 (p. 415)	Readings in Music Theory	2
PRACTM 3280 (p. 415)	Score Reading at the Keyboard	1
Applied Area		
1 hour every seme	ester in progress toward degree	
Ensemble		

Bachelor of Music with Elective Studies in Business

In addition to the required music core curriculum, candidates must 41-43 complete the following:

Additional General Education Requirements ¹

1 hours every semester in progress toward degree

PSYCH 1003 (p. 415)	General Psychology	3
or SOC 1010 (p. 415)	Introduction To Sociology	
ECON 1001 (p. 415)	Principles Of Microeconomics	3
Applied Area		
Applied Music		8
Music History an	d Literature	
M H L T 1150 (p. 415)	Drumming Cultures of the World	3
M H L T 1160 (p. 415)	Musical Journey through Latin America	3
M H L T 1170 (p. 415)	Musical Journey through the Far East	3
M H L T 1180 (p. 415)	Musical Journal Through Africa	3
Select one addition	nal course from MHLT 4000 – 4459.	
Practicum		

PRACTM 2510 (p. 415)	Conducting I	2	THRY COM 1302 Aural Training I (p. 415)	1
Ensemble			THRY COM 1311 Theory Of Music II	3
	rs maximum credit)		(p. 415)	
Internship	- · · · · · · · · · · · · · · · · · · ·		THRY COM 1312 Aural Training II	1
PRACTM 4920	Internship (replaces PRACTM 3920 Senior	1-3	(p. 415)	
(p. 415)	Research in Core Curriculum)	. 0	Music History and Literature	
English			M H L T 1010 (p. History Of Western Music I	3
Select one of the	following:	3	415)	
ENGL 3100 (p 415)	. Junior-Level Writing		or M H L T 1020 History Of Western Music II (p. 415)	
,	. Business Writing		Select any M H L T course 4220-4280	3
415)			Applied Area	
ENGL 3130 (p	. Technical Writing		Private Lessons	4
415)	•		Ensemble	
Business Admin	istration		Ensemble (4 hours maximum credit)	2
ACCTNG 2400	Fundamentals Of Financial Accounting	3	Select six credit hours from the following:	6
(p. 415)			PRACTM 2160 Piano Proficiency III (Prerequisite: PRACTM 1150)	
ACCTNG 2410	Managerial Accounting	3	(p. 415)	
(p. 415)			PRACTM 2180 Piano Proficiency IV	
MGMT 3600 (p. 415)	Management And Organizational Behavior	3	(p. 415) THRY COM 23(Theory Of Music III	
MKTG 3700 (p.	Basic Marketing	3	(p. 415)	
415)			THRY COM 23092ural Training III	
Select two of the	following:	6	(p. 415)	
	Income Taxes		THRY COM 23 ⁻ Theory Of Music IV	
(p. 415)			(p. 415)	
	Business Law: Contracts, Sales, Secured		THRY COM 231A2ural Training IV	
(p. 415)	Transactions, Bankruptcy		(p. 415)	
(p. 415)	Legal Environment Of Business		THRY COM 34 Orchestration (p. 415)	
,,	O Financial Management		PDGOGY 1560 Piano Pedagogy	
(p. 415)	or manda Management		(p. 415)	
. ,	Computers And Information Systems		PRACTM 2160 Piano Proficiency III (Prerequisite: PRACTM 1150)	
(p. 415)			(p. 415)	
MGMT 3611	Advanced Management And Organizational		PRACTM 2180 Piano Proficiency IV	
(p. 415)	Behavior		(p. 415)	
MGMT 3621	Human Resource Management		THRY COM 23(Theory Of Music III	
(p. 415)			(p. 415)	
MGMT 3622	Industrial And Labor Relations		THRY COM 2302 ural Training III	
(p. 415)	Occupant Balancian		(p. 415)	
MKTG 3710 (p. 415)	Consumer Behavior		THRY COM 23 ⁻ Theory Of Music IV (p. 415)	
Total Hours		50-52		
4 5			(p. 415)	
Prerequisites	to the required business administration courses.		THRY COM 34 Orchestration	
Curricula 1	for Minors		(p. 415)	
Juilloula			Total Hours	26

Minor in Music

Candidates must complete the following courses (27 hours):

Music	Theory
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THRY COM 1301 Theory Of Music I 3 (p. 415)

Music education methods courses and instrumental techniques courses may not be taken to complete this minor.

Non-keyboard players are required to pass an exam of piano proficiency or equivalent.

A GPA of 2.5 for all music hours is required to complete this minor.

Minor in Jazz Studies

Candidates must complete 23 credit hours from the following:

Music Theory

Graduate Study

Master of Music Education

The master of music education degree is designed to enable music specialists in grades K-12 to pursue continued professional growth in an emphasis area of their choice: choral, general music, instrumental, or music technology.

Admission Requirements

Admission to the program requires a bachelor of music in music education (or equivalent) degree, admission to the Graduate School, and three letters of recommendation.

A written examination in music education (including applications of music history and music theory/ear-training) will be taken during the first semester or term of enrollment in the program for advising purposes and to identify the possible need for review in the areas of music theory and history.

The program requires completion of 32 hours of graduate credit, 22 of which must be earned in residence.

Required Courses and Options:

Each candidate will choose one of the following emphasis areas:

- · Choral music education
- · Instrumental music education
- · General music education
- · Music education and technology

The minimum 32-hour program includes the following requirements.

Major Area

(p. 415)

Cognate in Education

Select one three-credit curriculum course such as:

•	Wajor Area			
	MUS ED 5810 (p. 415)	Foundations Of Music Education	3	
	MUS ED 5910 (p. 415)	Music Education Research	3	
	MUS ED 5990 (p. 415)	Master's Project In Music Education	3	
1	Advanced Metho	ds		
,	Select one of the f	following:	3	
	MUS ED 5510 (p. 415)	Graduate Instrumental Methods		
	MUS ED 5610 (p. 415)	Graduate Choral Methods		
	MUS ED 5710 (p. 415)	General Music: A Model For Multi-Faceted Learning		
,	Select three of the	following:	9	
	MUS ED 5620 (p. 415)	Guitar In The Classroom		
	MUS ED 5750 (p. 415)	Computer Applications in Music Education		
	MUS ED 5760 (p. 415)	Multimedia in Music Education		
	MUS ED 5770 (p. 415)	Music Notation Software for Music Educators		
	MUS ED 5920 (p. 415)	Psychology Of Music		
	PRACTM 5020 (p. 415)	Choral Literature		
	PRACTM 5210 (p. 415)	Graduate Conducting		
	THRY COM 51	Scoring And Arranging		

(p. 415)

SEC ED 6415 T (p. 415)	he Secondary School Curriculum	
	Curriculum Construction In Early Childhood & Elementary Programs	
Select one three-cre	edit curriculum course such as:	3
SEC ED 6415 T (p. 415)	he Secondary School Curriculum	
	Curriculum Construction In Early Childhood & Elementary Programs	
Select one other 3-c	credit education course such as:	3
ED REM 6707 C (p. 415)	Classroom Measurement And Evaluation	
ED REM 6710 E (p. 415)	ducational Research Methods and Design	
Electives		
Select five credits from	om elective courses such as:	5
AP MUS 5430 S (p. 415)	Special Applied Studies	
AP MUS 5440 G (p. 415)	Graduate Applied Music	
EN PER 5310 G (p. 415)	Graduate Chamber Ensemble	
(p. 415)	Graduate Ensemble	
ED REM 6710 E (p. 415)	ducational Research Methods and Design	
ED TECH 5340 S (p. 415)	Selection And Utilization Of Educational Multimedia	
MUS ED 4010 M (p. 415)	Marching Band Techniques	
(p. 415)	Graduate Workshop In Music Education	
(p. 415)	Graduate Instrumental Methods	
(p. 415)	Graduate Choral Methods	
(p. 415)	Guitar In The Classroom	
(p. 415) L	General Music: A Model For Multi-Faceted earning	
(p. 415)	Computer Applications in Music Education	
MUS ED 5760 M (p. 415)	Multimedia in Music Education	
(p. 415)	Music Notation Software for Music Educators	
MUS ED 5800 M (p. 415)		
(p. 415)	Contemporary Music Education	
(p. 415)	Problems Of Urban Music Education	
(p. 415)	sychology Of Music	
MUS ED 5950 S	Special Problems In Music Education	

PRACTM 5020 Choral Literature
(p. 415)

PRACTM 5210 Graduate Conducting
(p. 415)

SPEC ED 6412 Psychology Of Exceptional Children
(p. 415)

THRY COM 51 Scoring And Arranging
(p. 415)

Total Hours 35

Career Outlook

Many graduate students in music education will already hold full-time music teaching positions. A graduate degree in music education allows for continued professional growth. Music specialists may refine their teaching expertise, add to their understanding and knowledge about music and educational processes, become more specialized in a specific emphasis area of music education (choral, instrumental, general music or music technology), or any combination of these professional growth areas.

Graduate-level work in music education is often required to renew a teacher's certificate or to satisfy professional growth requirements specified by an employing school or school district or to advance to new positions within the field of music education.

Applied Music Courses

AP MUS 1410 Secondary Applied Music: Bassoon: 1 semester hour Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1411 Secondary Applied Music: Clarinet: 1 semester hour
Prerequisites: By audition and consent of department. Individual
instruction in performance and literature of the designated instrument. May
be repeated for credit. Not applicable to the applied music requirement for
music major or music minor degrees.

AP MUS 1412 Secondary Applied Music: Classical Guitar: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1413 Secondary Applied Music: Euphonium: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1414 Secondary Applied Music: Flute: 1 semester hour
Prerequisites: By audition and consent of department. Individual
instruction in performance and literature of the designated instrument. May
be repeated for credit. Not applicable to the applied music requirement for
music major or music minor degrees.

AP MUS 1415 Secondary Applied Music: French Horn: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1416 Secondary Applied Music: Harp: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1417 Secondary Applied Music: Oboe: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1418 Secondary Applied Music: Organ: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1419 Secondary Applied Music: Percussion: 1 semester

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1420 Secondary Applied Music: Piano: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1421 Secondary Applied Music: Saxophone: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1422 Secondary Applied Music: Trombone: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1423 Secondary Applied Music: Trumpet: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1424 Secondary Applied Music: Tuba: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1425 Secondary Applied Music: Violin: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1426 Secondary Applied Music: Viola: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1427 Secondary Applied Music: Violoncello: 1 semester hour

Prerequisites: By Audition And Consent Of Department. Individual Instruction In Performance And Literature Of The Designated Instrument. May Be Repeated For Credit. Not Applicable To The Applied Music Requirement For Music Major Or Music Minor Degrees.

AP MUS 1428 Secondary Applied Music: String Bass: 1 semester hour

Prerequisites: By Audition And Consent Of Department. Individual Instruction In Performance And Literature Of The Designated Instrument. May Be Repeated For Credit. Not Applicable To The Applied Music Requirement For Music Major Or Music Minor Degrees.

AP MUS 1429 Secondary Applied Music: Voice: 1 semester hour

Prerequisites: By audition and consent of department. Individual instruction in performance and literature of the designated instrument. May be repeated for credit. Not applicable to the applied music requirement for music major or music minor degrees.

AP MUS 1430 Secondary Applied Music: Jazz Studies: 1 semester hour

Prerequisite: by audition and consent of department. Individual instruction in jazz performance and literature on the designated instrument. Not applicable to the applied music requirement for music major or music minor degrees. May be repeated for credit.

AP MUS 1440 Bassoon: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1441 Clarinet: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1442 Classical Guitar: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1443 Euphonium: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1444 Flute: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1445 French Horn: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1446 Harp: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1447 Oboe: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1448 Organ: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1449 Percussion: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1450 Piano: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1451 Saxophone: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1452 Trombone: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1453 Trumpet: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1454 Tuba: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1455 Violin: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1456 Viola: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1457 Violoncello: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1458 String Bass: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1459 Voice: 1 semester hour

Prerequsite: By audition and consent of department. May be reapeated, up to 4 credit hours. Applied Musice registration requires concurrent registration in a large ensemble and seminar AP MUS 1460.

AP MUS 1460 Seminar In Pedagogy And Literature: 0 semester hours

Prerequisites: Concurrent registration with parallel Applied Music course is required. Seminars in pedagogy and literature are offered for all areas of Applied Music. May be taken on a satisfactory/unsatisfactory grading basis.

AP MUS 3440 Bassoon: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3441 Clarinet: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460

AP MUS 3442 Classical Guitar: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3443 Euphonium: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3444 Flute: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3445 French Horn: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3446 Harp: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3447 Oboe: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3448 Organ: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3449 Percussion: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3450 Piano: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3451 Saxophone: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3452 Trombone: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3453 Trumpet: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3454 Tuba: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3455 Violin: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3456 Viola: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3457 Violoncello: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3458 String Bass: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3459 Voice: 1 semester hour

Prerequisites: Completion of the Junior Standing Exam in major applied area. May be repeated, up to 6 credit hours Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 3460.

AP MUS 3460 Seminar In Pedagogy And Literature: 0 semester hours

Prerequisites: Concurrent registration with a parallel Applied Music course is required. Seminars in pedagogy and literature are offered for all areas of Applied Music. May be taken on a satisfactory/unsatisfactory basis.

AP MUS 4440 Bassoon: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4441 Clarinet: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4442 Classical Guitar: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4443 Euphonium: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4444 Flute: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4445 French Horn: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4446 Harp: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4447 Oboe: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4448 Organ: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4449 Percussion: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4450 Piano: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4451 Saxophone: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4452 Trombone: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4453 Trumpet: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4454 Tuba: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4455 Violin: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar Music 4460.

AP MUS 4456 Viola: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4457 Violoncello: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4458 String Bass: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4459 Voice: 2 semester hours

Prerequisites: Completion of Junior Standing Exam in major applied area and admission to Performance Degree Program. May be repeated up to 12 credit hours. Applied Music registration requires concurrent registration in a large ensemble and seminar AP MUS 4460.

AP MUS 4460 Seminar In Pedagogy And Literature: 0 semester hours

Prerequisite: Concurrent registration with parallel Applied Music course is required. Seminars in pedagogy and literature are offered for all areas of Applied Music. May be taken on a satisfactory/unsatisfactory grading basis.

AP MUS 4500 Honors Recital: 2-4 semester hours

Prerequisites: Minimum of three semesters of applied music at the upper division level; completion of the required junior and/or senior degree recitals; permission of the applied music faculty. Preparation and public performance beyond the required degree recital(s) for undergraduate music programs. By approval of the applied music instructor, the Honors Recital may be a lecture-recital focusing on both the performance and the historical, analytical, and/or pedagogical aspects of selected literature, a public performance of a complete concerto or major solo work with orchestra or symphonic band, a major music theatre or opera role in a full production, a full chamber music recital, or other similar major performances.

AP MUS 5430 Special Applied Studies: 1 semester hour

Prerequisites: Graduate standing in music and consent of department. Individual instruction in the performance and literature of an applied area other than the student's primary performance study. No jury examination is required. May be repeated for credit.

AP MUS 5440 Graduate Applied Music: 1 semester hour

Prerequisites: Graduate standing in music and consent of department. Instruction is offered in the following areas: bassoon, clarinet, classical guitar, euphonium, flute, French horn, harp oboe, organ, percussion, piano, saxophone, trombone, trumpet, tuba, violin, viola, violoncello, string bass and voice. May be repeated for credit.

Ensemble Performance Courses

EN PER 1399 Music Ensemble Registration: 0 semester hours

Prerequisite: Consent of Instructor Study, preparation, and performance of music ensemble literature. Concurrent registration in one or more of the following courses is required: Ensemble performance EN PER 1400, EN PER 1410, EN PER 1500, EN PER 1520, EN PER 1530, EN PER 1541, EN PER 1542, EN PER 1543, EN PER 1544, EN PER 1545, EN PER 1546, EN PER 1550, EN PER 1560, EN PER 1570, EN PER 4560, EN PER 5310, EN PER 5490.

EN PER 1400 University Chorus: 1 semester hour

Prerequisite: Consent of instructor. Preparation and performance of choral literature.

EN PER 1410 The University Singers: 1 semester hour

Prerequisite: Consent of instructor. The study and performance of music for vocal chamber ensemble.

EN PER 1420 University Concert Band: 1 semester hour

Prerequisites: Consent of Instructor. Study, preparation, and performance of Music for Concert Band. This course is not intended to fulfill the ensemble requirement for music majors/minors.

EN PER 1500 University Orchestra: 1 semester hour

Prerequisite: Consent of instructor. Study, preparation and performance of orchestral repertory.

EN PER 1520 University Symphonic Band: 1 semester hour

Prerequisite: Consent of instructor. Study preparation and performance of music for the winds and percussion.

EN PER 1530 University Wind Ensemble: 1 semester hour

Prerequisite: Consent of instructor. Study, preparation, and performance of music for winds and percussion including the preparation and performance of various chamber ensembles for woodwinds and brass.

EN PER 1532 University Pep Band: 1 semester hour

Prerequisites: Consent of Department/Instructor. Study, preparation, and performance of music in diverse contemporary styles. Performances of the University Pep Band are primarily in conjunction with campus activities and athletic events.

EN PER 1541 Chamber Ensemble Brass: 1 semester hour

Prerequisite: Consent of department. Study, preparation and performance of music for small ensembles.

EN PER 1542 Jazz Combo: 1 semester hour

Prerequisite: Consent of instructor. Study, preparation and performance of music for small ensembles.

EN PER 1543 Chamber Ensemble Percussion: 1 semester hour

Prerequisite: Consent of department. Study, preparation and performance of music for small ensembles.

EN PER 1544 Chamber Ensemble Strings: 1 semester hour

Prerequisite: Consent of department. Study, preparation and performance of music for small ensembles:a)brass; b)jazz; c)percussion; d)string; e)voice; f)woodwinds.

EN PER 1545 Chamber Ensemble Voice: 1 semester hour

Prerequisite: Consent of department. Study, preparation and performance of music for small ensembles.

EN PER 1546 Chamber Ensemble Woodwinds: 1 semester hour

Prerequisite: Consent of department. Study, preapration and performance of music for small ensembles.

EN PER 1550 Jazz Ensemble: 1 semester hour

Prerequisite: Consent of instructor. Study, preparation, and performance of jazz music for big band.

EN PER 1560 Opera Workshop: 1 semester hour

Prerequisite: Consent of instructor. Instruction in movement, basic stage techniques, technical theater, repertory and performance techniques and preparation. May be repeated for credit.

EN PER 1570 Music Theatre Ensemble: 1 semester hour

Prerequisite: Consent of instructor Course provides practical experience in vocal performance, acting, and stage movement/choreography through rehearsal and performance in Music, Theatre and Dance Department music theatre productions. Required of all cast members. Laboratory time will be scheduled and will include evening and weekend rehearsals and performances. May be repeated for credit.

EN PER 2700 Seminar in Performance and Outreach: 1 semester hour

Prerequisites: Acceptance as a music major/minor and two semesters of applied music study or by consent on intructor. Instruction in developing performance repertoire and skills for community and educational outreach programming. Student presentations of these programs in community and educational venues required. Course may be repeated.

EN PER 4560 Advanced Opera Workshop: 1 semester hour

Prerequisite: Consent of instructor. Instruction in movement stage technique,technical theater,repertory and performance based on advanced vocal skills. May be repeated for credit.

EN PER 5310 Graduate Chamber Ensemble: 1 semester hour

Prerequisites: Graduate standing in music and consent of department Study and performance of traditional and nontraditional chamber literature.

EN PER 5490 Graduate Ensemble: 1 semester hour

Prerequisites: Graduate standing in music or consent of department Study, preparation, and performance of ensemble literature from the choral, orchestral, or band/wind ensemble repertory. May be repeated for a total of four hours of credit.

Music Education Courses

MUS ED 3570 Curriculum And Methods Of Teaching Elementary School Music: 3 semester hours

Prerequisites: THRY COM 2311 and THRY COM 2312 and Level I Education courses for the music education major. A study of the elementary school music curriculum emphasizing the objectives, methods of teaching and staffing music classes, and analysis of instructional materials and resources. This course must be completed in residence.

MUS ED 3680 Curriculum And Methods Of Teaching Instrumental Music I: 2 semester hours

Prerequisites: THRY COM 2311, THRY COM 2312, PRACTM 2510, PRACTM 2610, PDGOGY 1270, PDGOGY 1280. Level I Education courses. Concurrent registration in MUS ED 3570. A study of the teaching techniques, materials, curriculum, and organization of the beginning instrumental music education program. Topics include student recruitment the elementary band/orchestra, small group instruction, jazz ensemble, and marching band. This course must be completed in residence.

MUS ED 3700 Curriculum And Methods Of Teaching Instrumental Music II: 2 semester hours

Prerequisites: THRY COM 2311, THRY COM 2312, PRACTM 3521, MUS ED 3570, MUS ED 3680. Level I Education courses. A continuation of MUS ED 3680. Topics include large group rehearsal techniques, program development, administrative procedures, and evaluation. This course must be completed in residence.

MUS ED 3710 Curriculum And Methods Of Teaching Secondary Choral Music: 2 semester hours

Prerequisites: THRY COM 2311, THRY COM 2312, MUS ED 3570. Level I Education courses. A study of the secondary school choral music program: curriculum, methods teaching techniques, organization, and administrative procedures for choral performance classes. This course must be completed in residence. Limited to music education majors.

MUS ED 3770 An Introduction To Music For The Elementary School Teacher: 3 semester hours

Prerequisite: None. An introduction to the elements of music and the expressive nature of music. Includes application of fundamentals to appropriate literature and activities for use with children in a classroom setting. This course will not apply toward requirements for a music major.

MUS ED 4010 Marching Band Techniques: 3 semester hours

Prerequisites: Junior standing or better. Techniques for organizing and training school marching bands. Content will include planning and charting shows, rehearsal problems, corps and traditional styles, and auxiliary units.

MUS ED 4060 Advanced Workshop In Music Education: 1-5 semester hours

Prerequisites: Junior standing and consent of instructor An intensive variable-topic workshop in Music Education presenting knowledge and skills to supplement specific areas in existing courses.

MUS ED 5000 Directed Research In Music: Variable Topic: 1-5 semester hours

Prerequisites: Consent of instructor. Directed independent research in music through readings, conferences, writings, and projects. This course may be repeated, but no more than 5 hours may be applied toward a degree.

MUS ED 5060 Graduate Workshop In Music Education: 1-5 semester hours

Prerequisites: Graduate standing and consent of instructor Intensive workshop in Music Education. Variable topics. To gain skills and knowledge in specific areas not readily available in existing courses.

MUS ED 5510 Graduate Instrumental Methods: 3 semester hours

Prerequisites: Graduate standing in music Development of objectives for instrumental programs and methods of achieving those objectives. Comprehensive musicianship through instrumental performance, analysis of instrumental literature, instrumentl philosophies and methodologies, rehearsal organization, and recent research in instrumental music education will be discussed.

MUS ED 5515 Orchestra Methods: 3 semester hours

Prerequisite: Graduate standing in music. Development of objectives for orchestral programs and methods of achieving those objectives. Comprehensive musicianship through orchestral performance, analysis of orchestral literature, orchestral philosophies and methodologies, rehearsal organization, and recent research in orchestral music education will be discussed.

MUS ED 5610 Graduate Choral Methods: 3 semester hours

Prerequisites: Graduate standing in music Development of objectives for choral programs and methods of achieving those objectives. Comprehensive muscianship through choral performance, analysis of choral literature, the changing voice, choral philosophies and methodologies, rehearsal organization, and recent research in choral music education will be discussed.

MUS ED 5620 Guitar In The Classroom: 3 semester hours

Prerequisites: Graduate Standing in Music A study of guitar instruction in grades 5-12 with a focus on curricular sequence that includes chords, strums and picking patterns essential for song accompaniment skill development. Current materials, suitable for upper elementary and secondary students will be explored.

MUS ED 5710 General Music: A Model For Multi-Faceted Learning: 3 semester hours

Prerequisite: Graduate Standing In Music. An Exploration Of The General Music Class As A Learning Laboratory Model Designed To Actively Engage The Learner In A Series Of Comprehensive Music Learning Experiences. Emphasizes Techniques And Materials That Will Motivate The "Non-Performance Oriented" Student.

MUS ED 5750 Computer Applications in Music Education: 3 semester hours

Prerequisites: Graduate standing in Music. An examination of the potential of computers in the music education field. Experiences with available hardware and software suitable for applications that include inventory, budget, music library cataloging, digital music synthesis, digital music recording and editing, music-related graphics and basic animation with music soundtracks.

MUS ED 5760 Multimedia in Music Education: 3 semester hours

Prerequisites: Graduate standing in Music. The development and use of interactive instructional multi-media materials for K-12 or collegiate settings. Platforms used will include presentation software and interactive whiteboard software/hardware.

MUS ED 5770 Music Notation Software for Music Educators: 3 semester hours

Prerequisite: Graduate standing in music. The in-depth study of a complex music notation program. The course will include various modes of notation entry, playback, music formatting and printing, MIDI-related and graphic-related functions, and the creation of music performance accompaniment and assessment files.

MUS ED 5800 Musical Acoustics: 3 semester hours

Prerequisite: Graduate standing in music The acoustical properties of the human voice, acoustic and electronic musical instruments, rehearsal rooms and performance spaces. Applications for musicians/teachers in the choice, design and acoustical treatment of rehearsal/performance space, requirements and techniques for quality music recordings and the use of acoustic principles in the design of original classroom musical instruments.

MUS ED 5810 Foundations Of Music Education: 3 semester hours

Prerequisite: Graduate standing in music. A study of the historical, philosophical, and psychological foundations of music education, includes principles necessary for development, implementation, and evaluation of total school music program.

MUS ED 5830 Contemporary Music Education: 3 semester hours
Prerequisite: Graduate Standing In Music. A Study Of Recent Trends And
Issues In Music Education.

MUS ED 5840 Problems Of Urban Music Education: 3 semester hoursPrerequisite: Graduate standing in music. An analysis of current practices, problems, trends, and research involved in developing strategies for the improvement of music programs in inner-city schools.

MUS ED 5910 Music Education Research: 3 semester hours

Prerequisite: Graduate standing in music. Applications of various approaches in defining and analyzing research problems in music education. Historical, experimental, descriptive, and philosophical research will be included.

MUS ED 5920 Psychology Of Music: 3 semester hours

Prerequisite: MUS ED 5810 and 5910. Identify and discuss important trends within the field of psychology of music focusing specifically on applying Cognitive Psychology to music learning, perception, and performance.

MUS ED 5950 Special Problems In Music Education: 1-3 semester hours

Prerequisite: Graduate Standing In Music. Selected Problems To Meet The Needs Ofthe Individual Student.

MUS ED 5990 Master's Project In Music Education: 3 semester hoursPrerequisite: Graduate standing in music. A project utilizing historical, experimental, philosophical, descriptive, or analytical research techniques. The project will include a written report.

Music History Courses

M H L T 1001 Introduction To Music: 3 semester hours

An historically oriented study of art music, its styles and forms from the Baroque period to the present day. This course will not apply toward requirements for a music major.

M H L T 1010 History Of Western Music I: 3 semester hours

Prerequisite: THRY COM 1301/ THRY COM 3102 or consent of department. A general survey of the history of western music. Includes the evolution and development of styles, forms and their social setting. This course meets the General Eduction requirement for Humanities and Fine Arts Knowlede and Valuing Skills.

M H L T 1020 History Of Western Music II: 3 semester hours

Prerequisite: M H L T 1301/ M H L T 1302 or consent of department. A continuation of M H L T 1010. This course meets the General Education requirements for the Humanities and Fine Arts Knowledge and Valuing Skills.

M H L T 1060 Introduction To African-American Music: 3 semester hours

This course will survey African-American musical heritage from its African origins through its role and development in twentieth century American Society. All genres will be discussed, including African-American composers who wrote in the Europena tradition. This course will not apply toward requirements for music major or minor.

M H L T 1070 Introduction To Jazz: 3 semester hours

A survey course which examines the musical, historical and social aspects of the subject. This course will not count toward requirements for a music major.

M H L T 1080 Introduction To Irish Traditional Music: 3 semester hours

Will survey the rich tapestry of Irish traditional music, song and dance. Particular attention will be given to the cultural history of the traditional music maker in Irish society, as well as among the constituent communities of the Irish diaspora in Europe and North America. Will introduce students to the instruments, performance settings and regional styles of Irish traditional music. Using field recordings and archive materials collected in Ireland and North America, will focus on celebrated folk performers of the past and present, and evaluate the impact of contemporary media on their ancient, yet evolving, musical genre. No prior experience of Irish traditional music is necessary to pursue this course.

M H L T 1090 Non-Western Music I: 3 semester hours

The music of Oceania; folk and classical music and dance of East Asia, Tibet and Southeast Asia, the influence of Buddhism, Islam and western acculturation on the functions of music in these societies.

M H L T 1110 Introduction To Irish Traditional Music In North America: 3 semester hours

Will examine the cultural history of Irish traditional music makers in North America since the end of the eighteenth century. Drawing on a diversity of ethnomusicological sources, will evaluate the contribution of Irish musicians, singers, and dancers to the growth of American popular culture in the ninteenth and twentieth centuries. Will explore the role of Irish musicians in rural communities from Newfoundland and Quebec to the midwestern states and California. In reviewing the music history of the Irish diaspora in North America, will compare and contrast historical recordings of Irish music made in the 1920s with those produced by modern masters of Irish music. No prior knowledge of Irish traditional music is necessary to pursue this course.

M H L T 1120 The American Musical Film: 3 semester hours

This course is a survey of the American film genre. Emphasis on themes, conventions, audience relationships, cultural values, and the synthesis of film form, music and dance. Examination of films such as Top Hat, West Side Story, Chicago, An American in Paris.

M H L T 1130 Introduction to Music Theatre: 3 semester hours

A study of music theatre as an art form emphasizing the contributions of the playwright, composer, lyricist, actor, musician, dancer, choreographer, director, designer, and technicians. Major stylistic periods and dramatic forms will be covered. Students will learn about how music theatre functions as an art and an industry in today's world. Attendance at live theatrical performances and/or rehearsals will be required.

M H L T 1140 Popular Music in America: 3 semester hours

This course is designed as a survey of major genres of American popular music - Tin Pan Alley, musical theater, ragtime, blues, early and more popular phases of jazz, country, rock, pop, hip-hop, rap, etc. Included will be a broad spectrum of cultural and historical contexts, insight into the development of the music industry, study of significant artists, and understandings of the formal and stylistic components of the music.

M H L T 1150 Drumming Cultures of the World: 3 semester hours

Drumming is one of the oldest forms of expression in the world and is prevalent on every continent. This course is designed as a survey of drumming throughout the world and the significance to the cultures therein. Included will be a broad spectrum of cultural and historical contexts, performance practices and hands on instruction. The major focus in this course will be the drumming practices of Africa, Asia, South America and the Caribbean. This course satisfies the cultural diversity requirement for the University.

M H L T 1160 Musical Journey through Latin America: 3 semester hours

Explore the diversity of this contagious music of the past and present, from the tango of Argentina, to salsa and meringue of the Caribbean, and from huayno of Amerindian cultures, to the marimba of Middle Latin America! This introduction to musical cultures of Latin America reveals the rich and wide range of musical forms, instruments, and styles that has influenced music on almost all parts of the globe today.

M H L T 1170 Musical Journey through the Far East: 3 semester hours

This class will explore the musical traditions and instruments of the countries of East Asia - China, Japan, and Korea. Much of the legendary founding of music and musical instruments originated on the Asian continent and transplanted along the Silk Road (trade routes from India, Persia and the Mediterranean) to the Far East. We will examine some of the world's most amazing sounds of the Orient.

M H L T 1175 Arts And Ideas: 3 semester hours

same as Art History 1175, English 1175, History 1175, Philosophy 1175, and Theatre and Dance 1175. An interdisciplinary course tied to the semester's offerings at the Blanch Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

M H L T 1180 Musical Journal Through Africa: 3 semester hours

This introduction to musical cultures of Africa provides a snapshot of African music south of the Sahara, or sub-Saharan Africa. We will explore the extraordinary rich and diverse musical traditions through the sounds and rhythms of its people. Highlights of the course include the introduction to a wise range of authentic musical instruments from Africa.

M H L T 1190 Musical Journey of the Native North American: 3 semester hours

This introduction to musical cultures of the Native American provides a snapshot of the aboriginal and modern day Native American in North America. We will explore the extraordinary rich and diverse musical traditions through the sounds and cultural practices of its people. Highlights of the course include the introduction to a wide range of authentic musical instruments of the Native American.

M H L T 4000 Directed Studies: 1-5 semester hours

Prerequisites: Consent of Instructor. Directed independent study of selected topics in music. May be repeated, but no more than 5 hours may be applied toward a degree.

M H L T 4220 Music Of The Renaissance: 3 semester hours

Prerequisite: M H L T 1010 or consent of deparment. A study of the theoretical and practical impact of humanism on music, musicians, and musical thought from 1450 to 1600. Sacred and secular music; the rise of an instrumental idiom.

M H L T 4230 Music Of The Baroque: 3 semester hours

Prerequisite: M H L T 1010 or consent of department. A detailed study of music from 1600 to 1750. The rise of the new style, national styles in the seventeenth century and the culmination of the Baroque period.

M H L T 4240 Music Of The Classic Period: 3 semester hours

Prerequisite: M H L T 1020 or consent of department. A study of the growth of classical style; Galant and expressive styles; Mozart, Haydn and Beethoven.

M H L T 4250 Music Of The Romantic Period: 3 semester hours

Prerequisite: M H L T 1020 or consent of department. Composers, forms and styles in nineteenth century music. The literary and social background of musical romanticism.

M H L T 4260 Music from 1900 to the Present: 3 semester hours

Prerequisite: M H L T 1020 or consent of department. A detailed study of trends in modern music and of influential composers; impressionism, serial composition, electronic music and other recent techniques.

M H L T 4270 A History Of Byzantine Music And Hymnography: 3 semester hours

Prerequisite: M H L T 1020 or consent of department A study of the liturgical and secular music of the Byzantine Empire and post-Byzantine period during the Ottoman occupation; a historical investigation of the Oriental and Ancient Greek origins of the music along with an evolution of the types of music and poetical forms. A study of the types of notation and transcription analyses from the Medieval neumes into Western staff notation is included.

M H L T 4280 American Music: 3 semester hours

Prerequisites: M H L T 1010 or M H L T 1020 or consent of department. A study of the history and literature of American music, its composers, performers and influences on American and world culture. Compositions studied include classical compositions from the colonial era through contemporary times as well as literature from the gospel, blues, jazz and popular music genres.

Music: Pedagogy Courses

PDGOGY 1250 Brass Techniques: 2 semester hours

Prerequisites: Consent of the Department The objective of this course is to familiarize students with materials and techniques for teaching all brass instruments including trumpet, horn, trombone, euphonium, and tuba in the school setting.

PDGOGY 1260 Woodwind Techniques: 2 semester hours

Prerequisites: Consent of the Department The objective of this course is to familiarize students with materials and techniques for teaching all woodwind instruments including flute, clarinet, oboe, bassoon, and saxophone in the school setting.

PDGOGY 1270 String Techniques: 2 semester hours

Prerequisites: Consent of the Department The objective of this course is to familiarize students with materials and techniques for teaching all string instruments including violin, viola, cello, and bass in the school setting.

PDGOGY 1280 Percussion Instrumental Techniques: 2 semester hours

Prerequisites: Consent of the Department The objective of this course is to familiarize students with materials and techniques for teaching all percussion instruments including snare drum, tom-tom, bass drum, cymbals, drumset, timpani, mallet instruments and miscellaneous percussion instruments in the school setting.

PDGOGY 1560 Piano Pedagogy: 2 semester hours

Prerequisite: Equivalent of Music 45k or permission of instructor. A study of methods, repertoire, and technical problems pertaining to private studio teaching for all levels of performance ability.

PDGOGY 2220 Jazz Pedagogy: 3 semester hours

Students will participate in interactive sessions that will "boost the jazz teaching chops" whether students are seasoned teachers or novices in the field of jazz education. A wide range of jazz teaching methods will be studied, including those that have been successful in the instructor's nationally recognized jazz camps. Lab groups will be formed for "hands on-minds on" teaching and learning. Students will experience jazz teaching techniques, examine jazz method series, listen to a variety of jazz styles, and examine and perform jazzliterature from different styles.

PDGOGY 4000 Directed Study: Variable Topic: 1-5 semester hours

Prerequisites: Consent of Instructor. Directed independent study of selected topics in music. May be repeated, but no more than 5 hours may be applied toward a degree.

PDGOGY 5000 Directed Research In Music: Variable Topic: 1-5 semester hours

Prerequisites: Consent of instructor. Directed independent research in music through readings, conferences, writings, and projects. This course may be repeated, but no more than 5 hours may be applied toward a degree.

PDGOGY 5110 Graduate Jazz Pedagogy: 3 semester hours

Students will participate in interactive sessions that will dramatically strengthen jazz teaching strategies, introduce new jazz rehearsal techniques, and examine the best in jazz education literature and materials. A wide range of jazz-teaching methods will be studied, including those that have been successful in the instructor's nationally recognized jazz camps. Lab groups will be formed for "hands on-minds on" teaching and learning. Students will experience jazz teaching techniques, examine jazz method series, listen to a variety of jazz styles and examine and perform jazz literature from different styles. The course is for students who are seasoned teachers or novices in the field of jazz education. Student will complete a research paper or a big band arrangement.

Music: Practicum Courses

PRACTM 1140 Piano Proficiency I: 1 semester hour

Prerequisite: Permission of department Group instruction for music majors who do not meet beginning keyboard requirements.

PRACTM 1150 Piano Proficiency II: 1 semester hour

Prerequisite: PRACTM 1140 or Consent of Department. Group instruction for music majors who do not meet beginning keyboard requirements.

PRACTM 1250 Singer's Diction: English, Italian And German: 1 semester hour

Prerequisites: Music 44 or Music 124 A study of English, Italian and German pronunciation using the International Phonetic Alphabet.

PRACTM 1260 Singer's Diction: Latin, French, And Spanish: 1 semester hour

Prerequisites: Music 44 or Music 124 A study of Latin, French, and Spanish pronunciation using the International Phonetic Alphaet.

PRACTM 1530 Accompanying I: 1 semester hour

Prerequisite: Consent of department. Accompanying and ensemble practices, including rehearsal techniques, for keyboard majors. Public performance of works studied is required.

PRACTM 1540 Accompanying II: 1 semester hour

Prerequisite: Consent of department. A continuation of Music 1530.

PRACTM 1550 Accompanying III: 1 semester hour

Prerequisite: Consent of Department. A continuation of Music 1540.

PRACTM 1570 Piano Performance Class: 2 semester hours

Prerequisites: Two semesters of AP MUS 1450: Piano. This class allows for additional study of repertoire, giving students greater opportunities to perform and receive critiques from instructor, adjudicators, and peers. Course may be repeated for credit.

PRACTM 2160 Piano Proficiency III: 1 semester hour

Prerequisite: PRACTM 1150 or permission of department. Continuation of piano proficiency study.

PRACTM 2170 Jazz Keyboard Harmony: 1 semester hour

Prerequisite: Prerequisites: PRACTM 1150 or consent of dept. Group keyboard instruction in the application of chordal structures and harmonic functions commonly used in mainstream jazz performance.

PRACTM 2180 Piano Proficiency IV: 1 semester hour

Prerequisite: PRACTM 2160 or consent of department. Continuation of piano proficiency study.

PRACTM 2190 Piano Jazz: 1 semester hour

Prerequisites: By audition and consent of department. Class lessons emphasizing improvisation and jazz styles. Applicable to the minor in jazz studies only. May be repeated for credit. Concurrent registrations in Jazz Ensemble (by audition) or Jazz Combo required.

PRACTM 2191 Brass Jazz: 1 semester hour

Prerequisites: By audition and consent of department. Class lessons emphasizing improvisation and jazz styles. Applicable to the minor in jazz studies only. May be repeated for credit. Concurrent registration in Jazz Ensemble (by audition) or Jazz Combo required.

PRACTM 2192 Woodwind Jazz: 1 semester hour

Prerequisites: By audition and consent of department. Class lessons emphasizing improvisation and jazz styles. Applicable to the minor in jazz studies only. May be repeated for credit. Concurrent registration in Jazz Ensemble (by audition)or Jazz Combo required.

PRACTM 2193 Rhythm Section Jazz: 1 semester hour

Prerequisites: By audition and consent of department. Class lessons emphasizing improvisation and jazz styles. Applicable to the minor in jazz studies only. May be repeated for credit. Concurrent registration in Jazz Ensemble (by audition) or Jazz Combo required.

PRACTM 2510 Conducting I: 2 semester hours

Prerequisite: Music 2301. Concurrent registration in PRACTM 2610 required for Bachelor of Music in Music Education program. Techniques and problems in conducting.

PRACTM 2610 Instrumental Literature Laboratory: 1 semester hour

Prerequisites: THRY COM 2301 and THRY COM 2302 Analysis and evaluation of selected instructional and concert materials for elementary, junior and senior high school groups.

PRACTM 2611 Elementary School Choral Literature Laboratory: 1 semester hour

Prerequisites: PRACTM 2301 and PRACTM 2302. Active conducting experience while analyzing and evaluating selected instructional and concert materials for elementary grades.

PRACTM 3190 Piano Proficiency V: 1 semester hour

Prerequisite: PRACTM 2180 or consent of department. Continuation of piano proficiency study.

PRACTM 3280 Score Reading at the Keyboard: 1 semester hour

Prerequisites: PRACTM 3190, or consent of department. Practical experience in the keyboard realization of figured bass and score reading with emphasis on C-clefs, transposition, and modulation.

PRACTM 3290 Piano Proficiency VI: 1 semester hour

Prerequisite: PRACTM 3190 or consent of department. Continuation of piano proficiency study.

PRACTM 3521 Conducting II - Instrumental: 2 semester hours

Prerequisite: PRACTM 2510. Advanced study of instrumental conducting and rehearsal techniques, score reading and interpretation.

PRACTM 3522 Conducting II - Choral: 2 semester hours

Prerequisite: PRACTM 2510 Concurrent registration in PRACTM 3620 required for Bachelor of Music in Music Education program. Advanced study of choral conducting and rehearsal techniques, score reading and interpretation.

PRACTM 3621 Junior-Senior High School Choral Literature Laboratory: 1 semester hour

Prerequisites: THRY COM 2311 and THRY COM 2312 Analysis and evaluation of selected instructional and concert materials for junior and senior high school performance groups.

PRACTM 3920 Senior Research: 2-4 semester hours

Prerequisite: Consent of department. Required of all senior music majors. Directed readings and research in an area mutually acceptable to the student and instructor.

PRACTM 4000 Directed Studies: Variable Topic: 1-5 semester hours Prerequisites: Consent of department. Directed independent study of selected topics in music. May be repeated, if topic is substantially different,

selected topics in music. May be repeated, if topic is substantially different but no more than 5 hours may be applied toward a degree.

PRACTM 4100 Senior Project in Theory/Composition: 2-4 semester hours

Prerequisites: Consent of department. Required of all students in the BM in Theory/Composition program. This project could take any number of forms, dependent upon mutual agreement between student and instructor. For example, a student with a focus in music theory would write a thesis of substantial depth on a theoretical/analytical topic, and a student with a focus in composition would either write a large-scale work (for orchestra, wind ensemble, etc.) or prepare and lead a recital of several of his or her own compositions.

PRACTM 4920 Internship: 1-3 semester hours

Prerequisite: Senior standing in B.M. Business emphasis and permission of the instructor. Supervised experience in the area of the student's career objective, as music or instrument merchandising, arts management, mass communication, publishing, manufacturing or other, as available. May be repeated once for credit in different area.

PRACTM 5000 Directed Research In Music: Variable Topic: 1-5 semester hours

Prerequisite: Consent of instructor. Directed independent research in music through readings, conferences, writings, and projects. This course may be repeated, if topic is substantially different, but no more than 5 hours may be applied toward a degree.

PRACTM 5020 Choral Literature: 3 semester hours

Prerequisite: Graduate Standing In Music. Study Of Choral Literature Appropriate For Ensembles From Elementary To Senior High School. Criteria For Evaluating Choral Literature Will Be Developed And Perdagogical Implications Of Choral Music As A Means Of Developing Comprehensive Musicianship Will Be Discussed.

PRACTM 5035 Instrumental Literature: 3 semester hours

Prerequisite: Graduate standing in Music Study of literature appropriate for soloists and ensembles for elementary to senior high school band, orchestra, and jazz ensemble. Criteria for evaluating the literature will be developed and related technical problems will be studied.

PRACTM 5210 Graduate Conducting: 3 semester hours

Prerequisites: Graduate standing in music Conducting techniques, score reading, and interpretation of choral, orchestral, and band literature.

Theory and Composition Courses

THRY COM 1300 Introduction to Music Theory: 1 semester hour

This course introduces the basic vocabulary of music notation and theory and rudimentary skills of ear training and sight singing. This course must be taken concurrently with THRY COM 1301, but may be waived on the basis of a successful score on the Theory Placement Exam.

THRY COM 1301 Theory Of Music I: 3 semester hours

Prerequisite: Consent of department. This course introduces the basic materials of music as well as species counterpoint and diatonic harmony. Concurrent registration in THRY COM 1300 is required unless waived on the basis of a successful score on the Theory Placement Exam. Concurrent registration in THRY COM 1302 is required for music majors and minors.

THRY COM 1302 Aural Training I: 1 semester hour

Prerequisite: Consent Of Department. Systematic instruction in ear training and sight singing of all material covered in THRY COM 1301. Includes diatonic melodic and rhythmic dictation, chord quality recognition, sight singing of diatonic melodies, and the reading of units and divisions of units in simple and compound meters. Concurrent registration in THRY COM 1301 is required for music majors and minors.

THRY COM 1311 Theory Of Music II: 3 semester hours

PREREQUISITE: THRY COM 1300, THRY COM 1301, and THRY COM 1302 or consent of department. This course continues the study of diatonic harmony begun in THRY COM 1301. Harmonic function, phrase structure, harmonic sequences, secondary dominants, and simple modulation. Concurrent registration in THRY COM 1312 is required for music majors and minors.

THRY COM 1312 Aural Training II: 1 semester hour

Prerequisite: THRY COM 1301 and THRY COM 1302 or consent of department. The systematic instruction in ear training and sight singing begun in THRY COM 1302 is continued. This course provides instruction in the performance and aural recognition of all musical devices introduced in THRY COM 1311. Concurrent registration in THRY COM 1311 is required for music majors and minors.

THRY COM 2301 Theory Of Music III: 3 semester hours

Prerequisite: THRY COM 1311 and THRY COM 1312 or consent of department. This course begins the study of chromatic harmony and form in music of the eighteenth and nineteenth centuries. Concurrent registration in THRY COM 2302 is required for music majors and minors.

THRY COM 2302 Aural Training III: 1 semester hour

Prerequisite: THRY COM 1311 and THRY COM 1312 or consent of department. Systematic instruction in ear training and sight singing of THRY COM 1312 Is continued. This course provides instruction in the performance and aural recognition of all musical devices introduced in THRY COM 2301. Concurrent registration in THRY COM 2301 is required for music majors and minors.

THRY COM 2311 Theory Of Music IV: 3 semester hours

Prerequisites: THRY COM 2301 and THRY COM 2302 or consent of department. This course continues the study of chromatic harmony of late nineteenth-century music, as well as the analysis of larger musical forms. Additionally, this course focuses on developing the ability to communicate analytical observations effectively in both written and spoken formats. Concurrent enrollment in THRY COM 2312 is required for all music majors and minors.

THRY COM 2312 Aural Training IV: 1 semester hour

Prerequisite: THRY COM 2301 and THRY COM 2302 or consent of department. The systematic instruction in ear training and sight singing of THRY COM 2302 is continued. This course provides instruction in the performance and aural recognition of all musical devices introduced in THRY COM 2311. Concurrent enrollment in THRY COM 2311 is required for all music majors and minors.

THRY COM 3110 Analysis Of Music from 1900 to Present: 2 semester hours

Prerequisite: THRY COM 2311 / THRY COM 2312 or consent of department. This course primarily provides a study of compositional devices in atonal and serial music since 1900.

THRY COM 3120 Tonal Counterpoint: 2 semester hours

Prerequisite: Music 112 or consent of department. Study of tonal counterpoint with emphasis on the eighteenth century style. Composition in two and three parts.

THRY COM 3130 Advanced Analytical Techniques: 2 semester hours

Prerequisites: THRY COM 2311/THRY COM 2312. Close analysis, seminar discussion, and focused theoretical/analytical study of selected compositions. Repertoire studied changes from year to year at discretion of instructor.

THRY COM 3140 Readings in Music Theory: 2 semester hours

Prerequisites: THRY COM 2311 and THRY COM 2312. An introduction to the primary areas of research in the field of music theory. This seminar-style course will include readings and discussion of a number of important writings in music theoretical areas including, but not limited to the following: tonal theory, post-tonal theory, mathematics and music, music cognition, and the history of music theory.

THRY COM 3300 Seminar In Composition: 2 semester hours

Prerequisite: THRY COM 3110 or consent of instructor. The study of composition in theory and practice.

THRY COM 3310 Studio Composition: 1 semester hour

Prerequisites: THRY COM 2311 and THRY COM 2312, or consent of department. Individual lessons in music composition. Course may be repeated for credit.

THRY COM 3410 Orchestration: 3 semester hours

Prerequisite: THRY COM 2311 or consent of instructor. Study of the instruments of the brass, woodwind, percussion, and string families; scoring, transcription, and arranging for various instrumental ensembles.

THRY COM 3420 Choral Arranging: 2 semester hours

Prerequisites: THRY COM 2311 or consent of department Study of vocal ranges, characteristics and capabilities at various ages and scoring for choral ensembles comprised of singers in these varying stages of vocal development.

THRY COM 4000 Directed Studies: Variable Topic: 1-5 semester hours

Prerequisites: Consent of Instructor. Directed independent study of selected topics in music. May be repeated, but no more than 5 hours may be applied toward a degree.

THRY COM 5000 Directed Research In Music: Variable Topic: 1-5 semester hours

THRY COM 5110 Scoring And Arranging: 3 semester hours

Prerequisite: Graduate Standing In Music. Experience In Scoring And Arranging Music For A Variety Of Ensembles.

Theatre, Dance, and Media Studies

The Department of Theatre, Dance, and Media Studies offers the BA degree program in Theatre and Dance, as well as the BS degree in Media Studies. The department also offers minor and certificate programs. The Media Studies concentration areas are advertising, film, production and television.

The Theatre and Dance area offers four main stage productions each academic year. The University Players, a recognized student organization, is open to any University of Missouri-St. Louis student, as is The Group Formerly Known as Jeté, the student Dance organization.

Media Studies students are active in the Media Production Society, Ad Corps, – A Student Chapter of American Advertising Federation, SEMPA, the student radio organization, and community internships. Students are also actively involved in media production for both internal and external organizations and agencies.

For further information concerning the theatre, dance and/or media studies, curriculum, or other matters, contact the Department of Theatre, Dance, and Media Studies at 314-516-4572.

Undergraduate Studies Bachelor of Arts in Theatre and Dance General Education Requirements

All Theatre and Dance majors must satisfy the University and College of Fine Arts and Communication's 42-hour General Education (p. 28) core requirements, which include ENGL 1100 (p. 433) and the Math proficiency requirement.

Junior-level writing class is required.

The Cultural Diversity requirements may be satisfied by General Education (p. 28) courses or lower-or upper-level courses in various departments.

State Government/History graduation requirements may be satisfied by General Education (p. 28) courses or by other lower-or upper-level courses in various departments.

13 hours of a foreign language.

Degree Requirements

Theatre and Dance majors must complete a minimum of 36, but not more than 52 hours in Theatre and Dance courses. A core of 26 hours is required for all majors and 10-26 additional hours in Theatre and Dance are required. At least 24 hours in the major must be taken at UMSL and must include 6 hours at the 2000 or higher level and 9 hours at the 3000 or higher level. All courses required for the major must be completed with a minimum grade of C- to be accepted, and the overall total grade point average must be at least 2.0 to graduate. To be eligible to participate in Internship classes, each student must have an overall grade point average of 3.0

In addition to the major's required core and elective Theatre & Dance courses, students will choose elective courses to bring their total credit hours to 120. Practicum courses may be repeated for credit; an overall limit of 20 hours in Practicum courses will be accepted towards the 120 hour degree.

Required Core Courses for all Theatre and Dance Majors

TH DAN 1210 (p. 433)	Fundamentals Of Acting	3
TH DAN 1900 (p. 433)	Introduction To Theatre Technology	3
TH DAN 1910 (p. 433)	Introduction To Theatrical Design	3
TH DAN 1023 (p. 433)	Fundamentals Of Dance	3
TH DAN 2810 (p. 433)	History Of World Theatre And Drama Through The Restoration	3
or TH DAN 2840 (p. 433)	History Of Dance To The 19Th Century	
TH DAN 2820 (p. 433)	History Of World Theatre & Drama From 18Th C To Contemporary Time	3
or TH DAN 2841 (p. 433)	History Of Dance From The 19Th Century To Contemporary Times	
Select 2 hours fro	m these Production related courses:	2
TH DAN 1060 (p. 433)	Theatre Workshop	
TH DAN 2260 (p. 433)	Introduction To Theatrical Costume Production	
TH DAN 3060 (p. 433)	Advanced Theatre Workshop	
TH DAN 3254 (p. 433)	Costume Production And Construction Techniques	
Select 6 hours ch	osen from these Practicum courses: 1	6
	Practicum In Performance Studies	
TH DAN 2196 (p. 433)	Practicum In Scenery/Lighting/Sound In Theatre Production	
TH DAN 2197 (p. 433)	Practicum In Costume	
TH DAN 2198 (p. 433)	Practicum In Dance	
TH DAN 3195 (p. 433)	Advanced Practicum In Performance Studies	
TH DAN 3196 (p. 433)	Adv Theatre Practicum: Scenery/Lighting/Sound In Theatre Produc	
TH DAN 3197 (p. 433)	Advanced Practicum In Costume	
TH DAN 3198 (p. 433)	Advanced Practicum In Dance	
Total Hours		26

¹ 3 hours of which need to be above the 3000 level.

Additional hours in Theatre and Dance electives are to be selected based on individual students' areas of interest. The core courses of 26 hours plus

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the Theatre and Dance electives must equal a minimum of 36 hours, but not more than 52 hours, for Theatre and Dance majors.

Minor in Theatre and Dance

Students with other majors may choose to minor in Theatre and Dance to complement their academic and career goals. The minor requires 18 hours of Theatre and Dance courses, nine of which must be taken at UMSL. A minimum GPA of 2.0 is required in the minor.

A Minor in Theatre and Dance Consists of the following:

Select one	of the	following Performance related courses:	3
TH DAN	2211		
TH DAN (p. 433)	2210	Ensemble Acting	
TH DAN (p. 433)	3305	Writing For Performance	
TH DAN (p. 433)	4220	Directing For The Theatre	
Select one	of the	following Design/Technology related courses:	3
TH DAN (p. 433)	2260	Introduction To Theatrical Costume Production	
TH DAN (p. 433)	2280	Lighting And Sound Technology	
TH DAN (p. 433)	3252	Costume Design	
TH DAN (p. 433)	3254	Costume Production And Construction Techniques	
TH DAN (p. 433)	3260	Scenic Design	
TH DAN (p. 433)	3261	Lighting Design	
Select one	of the	following Dance related courses:	2-3
TH DAN (p. 433)	1006	Beginning Ballet Technique	
TH DAN (p. 433)	1007	Beginning Jazz Dance Tecnique	
TH DAN (p. 433)	1008	Beginning Modern Dance Technique	
TH DAN (p. 433)	2006	Intermediate Ballet Technique ¹	
TH DAN (p. 433)	2007	Intermediate Jazz Dance Technique ¹	
TH DAN (p. 433)	2008	Intermediate Modern Dance Technique ¹	
TH DAN (p. 433)	3006	Advanced Ballet Technique ¹	
TH DAN (p. 433)	3007	Advanced Jazz Dance Technique ¹	
TH DAN (p. 433)	3008	Advanced Modern Dance Technique ¹	
TH DAN (p. 433)	3009	Dance Choreography For The Stage, Television And Film	
" ,	of the	following Production related courses:	2
TH DAN	1060	Theatre Workshop	

Total Hours		17-19	
Select	any additio	nal Theatre and Dance courses.	6-7
	DAN 3198 433)	Advanced Practicum In Dance	
	DAN 3197 433)	Advanced Practicum In Costume	
Pro	duction:		
		Adv Theatre Practicum: Scenery/Lighting/Sound In Theatre Produc	
	DAN 3195 433)	Advanced Practicum In Performance Studies	
	DAN 2198 433)	Practicum In Dance	
	DAN 2197 433)	Practicum In Costume	
	DAN 2196 433)	Practicum In Scenery/Lighting/Sound In Theatre Production	
	DAN 2195 433)	Practicum In Performance Studies	
Select	one of the t	following Practicum courses:	1
	DAN 3060 433)	Advanced Theatre Workshop	
	DAN 2260 433)	Introduction To Theatrical Costume Production	

Enrollment in Intermediate-and Advanced-level Dance Technique courses is by audition only. Beginning-level courses may be repeated for credit until sufficient proficiency has been achieved to advance to higher-level courses.

Bachelor of Science in Media Studies General Education Requirements

All Media Studies majors must satisfy the University and the College of Fine Arts and Communication's 42-hour General Education core requirements, which include ENGL 1100 (p. 433) and the Math proficiency requirement.

A Junior-level writing class is required.

The Cultural Diversity requirements may be satisfied by General Education courses or other lower- or-upper level courses in various departments.

State Government/History graduation requirements may be satisfied by General Education courses or by other lower-or-upper level courses in various departments.

There is no foreign language requirement, but foreign language proficiency is recommended.

Degree Requirements

Media Studies majors must complete a minimum of 51 hours in the Department of Theatre, Dance, and Media Studies courses. A core of 21 hours is required of all majors. An additional 27 hours, 9 hours in Theatre and Dance classes, 9 hours in Media Studies classes at the 2000 level and 9 hours in Media Studies classes at the 3000 level, must be completed with a minimum grade of C. At least 24 of these hours must be taken at UMSL. Of the 24 hour minimum, at least 18 hours of classes must be taken at the 2000 level or above at UMSL.

In addition to the major core and required courses, students will choose elective courses to bring their total credit hours to 120. Practicum and Internship courses may be repeated for credit, but an overall limit of 20 hours in Practicum and Internship will be accepted towards the 120 hours degree.

Required Core Courses for all Media Studies majors:

MEDIA ST 1050 (p. 433)	Introduction To Media Studies	3		
MEDIA ST 1065 (p. 433)	Introduction To Information Technology	3		
TH DAN 1900 (p. 433)	Introduction To Theatre Technology	3		
MEDIA ST 2235 (p. 433)	Media Theory	3		
Select one of the	following:	3		
MEDIA ST 107 (p. 433)	(Introduction To Cinema			
MEDIA ST 1100ntroduction To Advertising (p. 433)				
MEDIA ST 111 (p. 433)	(Introduction To Radio And Television Broadcasting			
Select two of the t	following:	6		
MEDIA ST 119 (p. 433)	Practicum In Journalism			
or MEDIA ST 2(Practicum In Advertising (p. 433)				
MEDIA ST 339 (p. 433)	MEDIA ST 3394nternship In Journalism (p. 433)			
or MEDIA ST 3 (p. 433)	338&ernship In Media Studies			
MEDIA ST 440 (p. 433)	Senior Project			
Total Hours		21		

Additional hours in Theatre, Dance and Media Studies electives are to be selected on individual students' areas of interest. The core courses of 21 hours plus the Theatre, Dance, and Media Studies electives must equal 48 hours in total for Media Studies majors.

Select any other Theatre and Dance class.	9
Select any other Media Studies class at the 2000 level or above.	9
Select any other Media Studies class at the 3000 level or above.	9
Total Hours	27

Minor in Media Studies

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A minor in Media Studies consists of the following:

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MEDIA ST 2235 Media Theory 3
(p. 433)

Select two of the following: 6

MEDIA ST 1050ntroduction To Media Studies
(p. 433)

MEDIA ST 1060Introduction to World Cinema
(p. 433)

MEDIA ST 1065ntroduction To Information Technology
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MEDIA ST 107(Introduction To Cinema
  (p. 433)
  MEDIA ST 1100ntroduction To Advertising
  (p. 433)
  MEDIA ST 111(Introduction To Radio And Television Broadcasting
  (p. 433)
  MEDIA ST 1118Radio And Television Announcing
  (p. 433)
  MEDIA ST 211(Basic Television Studio Production
  (p. 433)
  MEDIA ST 2114Radio Production I
  (p. 433)
  MEDIA ST 208(Advertising Copywriting
  (p. 433)
Select one of the following:
                                                                     3
  MEDIA ST 177! Introduction To Non-Western Cinema
  (p. 433)
  MEDIA ST 2210Television Production I
  (p. 433)
  MEDIA ST 221 Introduction To Digital Multimedia Production
  (p. 433)
  MEDIA ST 2212Broadcast Writing And Reporting
  (p. 433)
  MEDIA ST 227!Introduction To International Cinema
  (p. 433)
  MEDIA ST 2500ntroduction To Comparative International Media
  (p. 433)
                 Systems
  MEDIA ST 337(Documentary Film
  (p. 433)
Select two of the following:
                                                                     6
  MEDIA ST 222{Public Relations Writing
  (p. 433)
  MEDIA ST 2271History Of American Film
  (p. 433)
  MEDIA ST 2272 Contemporary Cinema
  (p. 433)
  MEDIA ST 3035Advanced Media Theory
  (p. 433)
  MEDIA ST 307(International Cinema
  (p. 433)
  MEDIA ST 3150Feature Writing
  (p. 433)
  MEDIA ST 318(Reporting
  (p. 433)
  MEDIA ST 3214News Writing
  (p. 433)
  MEDIA ST 331(Television Production II
  (p. 433)
  MEDIA ST 3313Advanced Video Editing
  (p. 433)
  MEDIA ST 331(Television News
  (p. 433)
  MEDIA ST 3317Radio And The Recording Industry
  MEDIA ST 3334Advertising Media Planning
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MEDIA ST 3338Advertising Technique (p. 433) MEDIA ST 335(Mass Media History MEDIA ST 3355Media Law And Regulation (p. 433) MEDIA ST 335(Global Media Systems And Trends (p. 433) MEDIA ST 4335Seminar in Applied Media Studies Research (p. 433)

18 **Total Hours**

Theatre, Dance & Media Studies Prerequisites may be waived by consent of the department.

Certificate Program in Advertising

A student may receive the Certificate in Advertising by completing 15 hours of selected course work and 3 hours of a practicum or an internship from the following list of courses. A GPA in courses for the certificate must be 2.0 or better, and nine of the 18 hours must be taken at UMSL. Courses may not be taken on a satisfactory/unsatisfactory basis.

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cr. hrs.) 1

The following course is required:			
ST ART 2100 (p. Advertising Art Fundementals 433)			
Select 4 Courses from the following list of electives:			
MEDIA ST 110(Introduction To Advertising (p. 433)			
MEDIA ST 2080Advertising Copywriting (p. 433)			
MEDIA ST 209(Creative Advertising (p. 433)			
MEDIA ST 2211Introduction To Digital Multimedia Production (p. 433)			
MEDIA ST 222(Promotion Essentials (p. 433)			
MEDIA ST 2222Convergence and Digital Media (p. 433)			
MEDIA ST 302tCurrent Issues in Advertising (p. 433)			
MEDIA ST 3030Advertising and Social Media (p. 433)			
MEDIA ST 333 ² Advertising Media Planning (p. 433)			
MEDIA ST 3338Advertising Technique (p. 433)			
MEDIA ST 335 Media Law And Regulation (p. 433)			
MEDIA ST 3500Advanced Advertising Seminar (p. 433)			
MEDIA ST 350 Field Experience in Advertising (p. 433)			
MKTG 3700 Basic Marketing (p. 433)			
Select one of the following:	3		
MEDIA ST 2095Practicum In Advertising (Equals a minimum of 3			

MEDIA ST 339 (Internship In Advertising (Equals a minimum of 3 cr. (p. 433) hrs.) 1

Total Hours 6

NOTE: Students may take MEDIA ST 2095 (p. 433) OR MEDIA ST 3395 (p. 433), but they must take either 150 hours of Practicum or 150 hours of Internship. Practicums or Internships must be arranged in advance and are required for all students.

The On-line Certificate Program in Film **Studies**

The On-line Certificate Program in Film Studies is open to all St. Louis campus undergraduate and graduate students, as well as to graduates of UM-St. Louis and other colleges and universities.

To receive a Film Studies Certificate, a student must complete the required courses (18 credit hours) with an average grade of C or better. None of the courses may be taken on a satisfactory/unsatisfactory basis. Up to six credit hours of course work may be transferred from other institutions.

Required

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MEDIA ST 1060 (p. 433)	Introduction to World Cinema	3
MEDIA ST 2271 (p. 433)	History Of American Film	3
MEDIA ST 2273 (p. 433)	Survey of Film Genres	3
Electives		
Select three of the	e following:	9
MEDIA ST 107 (p. 433)	'Untroduction To Cinema	
MEDIA ST 221 (p. 433)	² Screenwriting	
MEDIA ST 227 (p. 433)	2Contemporary Cinema	
MEDIA ST 227 (p. 433)	Introduction To International Cinema	
MEDIA ST 307 (p. 433)	'International Cinema	
MEDIA ST 337 (p. 433)	(Documentary Film	
Total Hours		18
Required		
MEDIA ST 1060	Introduction to World Cinema	3
MEDIA ST 2271	History Of American Film	3
MEDIA ST 2273	Survey of Film Genres	3
Electives		
Select three of the	e following:	9
MEDIA ST 107	'Untroduction To Cinema	
MEDIA ST 221	² Screenwriting	
MEDIA ST 227	2Contemporary Cinema	
MEDIA ST 227	Introduction To International Cinema	
MEDIA ST 307	'Onternational Cinema	

MEDIA ST 337(Documentary Film

Total Hours 18

Media Studies Courses

MEDIA ST 1050 Introduction To Media Studies: 3 semester hours

Introduction to print and electronic media, as well as the Internet. Emphasis on history, theory, and role of the mass media as cultural institutions. The course also examines the Federal Communications Commission (FCC) and issues of ownership and media conglomeration.

MEDIA ST 1055 Introduction to Social Media: 3 semester hours

Introduction to the creation and rise of social media/networks. Course will cover the impact and influence of dominant sites along with individual, group, political, and commercial behavior changes. The course will examine how social media platforms can be integrated with other current tools. Issues such as privacy, censorship, cyber-bullying, and the use of social media for anit-social/terrorist activities will be explored.

MEDIA ST 1060 Introduction to World Cinema: 3 semester hours
An introduction to the history, rhetoric, and aesthetics of world cinema.

International film theory and criticism will be studied as well as major genres, authors, and artists.

MEDIA ST 1065 Introduction To Information Technology: 3 semester hours

The production and consumption of information by individuals, the work place and society. Emphasis on the changing nature of communication processes as a result of the expansion of communication technologies.

MEDIA ST 1070 Introduction To Cinema: 3 semester hours

An overview of American cinema from the early beginnings of D.W. Griffith and his contemporaries to the present day. Course will discuss both the Hollywood studio system and today's independent movement. Also covered: genre, film theory, criticism, and aesthetics.

MEDIA ST 1100 Introduction To Advertising: 3 semester hours

An introduction to the history, rhetoric, and aesthetics of Advertising. A basic understanding of industry issues and key areas such as account management, research, strategy, creative, media, and production.

MEDIA ST 1110 Introduction To Radio And Television Broadcasting: 3 semester hours

An introduction to broadcasting, including the areas of history, government regulations, station operation, and program development.

MEDIA ST 1118 Radio And Television Announcing: 3 semester hours

Prerequisites: MEDIA ST 1113, or MEDIA ST 1114, or Consent of Instructor Training in radio and television studio procedures. Production and criticism of lab programs, including news, continuity, interviews, and oral improvisation. Classroom meetings at the radio lab and the television lab, plus lab hours to be arranged.

MEDIA ST 1194 Practicum In Journalism: 1-3 semester hours

Prerequisites: Consent of Instructor. Open to Theatre, Dance, and Media Studies majors or minors only. Not open to students who have any delayed grades outstanding. Practical work in the journalism program or the student newspaper, supervised by a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 1196 Practicum In Radio: 1-3 semester hours

Prerequisites: MEDIA ST 1114 or Consent of Instructor. Open to Theatre, Dance and Media Studies majors or minors only. Not open to students who have any delayed grades outstanding. Practical work at the campus radio station, supervised by a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 1197 Practicum In Television/Film: 1-3 semester hours

Prerequisites: MEDIA ST 1113 or Consent of Instructor; open to Theatre, Dance and Media Studies majors only; not open to student who have delayed grades outstanding. Practical work at one of the campus television studios or for the UM-St. Louis Television/Film Club, supervised by a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 1198 Practicum In Media Studies: 1-3 semester hours

Prerequisites: Consent of Instructor. Open to Theatre, Dance and Media Studies majors or minors only; not open to students who have delayed grades outstanding. Practical work in media studies, supervised by a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 1500 Entertainment Economics: The Movie Industry: 3 semester hours

Same as ECON 1500. This survey course examines the interrelationships between economics and the movie industry. It explores the impact of economic factors on the production, distribution and exhibition of movies, focusing on the rise and fall of the studio system, role of technological change in the evolution of cinematography and the movie marketplace, financing and market segmentation, globalization and changing industrial structure within which films are produced. To the extent that movies reflect and contribute to popular economic perspectives, this course also evaluates the soundness of the movie industry's depiction of a variety of economic doctrines. Classes will consist of lecture, discussion, and brief film screenings.

MEDIA ST 1775 Introduction To Non-Western Cinema: 3 semester hours

Prerequisites: MEDIA ST 1070 with a grade of C or better. Course examines the art and history of non-western cinema. Significant films from Asia and Africa will be examined. The artistic, technical historical, and social significance of these films will also be examined. This course will satisfy the University's cultural diversity requirement.

MEDIA ST 2080 Advertising Copywriting: 3 semester hours

Same as ENGL 2080. To give students a hands-on approach for writing advertising material for print and broadcast against tight deadlines in a professional setting.

MEDIA ST 2090 Creative Advertising: 3 semester hours

Prerequisites: MEDIA ST 1100 or consent of instructor. Explores the fundamentals of the creative process by discussing selling messages, marketplace diversity, research, strategy, layouts, and the creative brief. Emphasis on creative campaigns for radio, television, direct marketing, and the Internet.

MEDIA ST 2095 Practicum In Advertising: 1-3 semester hours

Prerequisites: MEDIA ST 2080 and MEDIA ST 2090 or consent of instructor. Open to Theatre, Dance, and Media Studies majors and minors only. Overall GPA of at least 2.0 or better. Not open to students who have any delayed grades outstanding. Practical work in the advertising program, the student newspaper, or an on-campus agency, supervised by a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 2105 Advertising For The Arts: 3 semester hours

Advertising for the Arts examines the theories and design principles needed to produce print and other forms of advertising to stimulate awareness of and community participation in a broad range of arts activities, including, but not limited to music, drama, dance, and the visual arts.

MEDIA ST 2113 Basic Television Studio Production: 3 semester hours

Study of basic television studio production techniques and practices. The class will provide the student with practical experience in studio camera operating, directing, producing, switching, audio mixing and lighting, as well as basic straight cut editing. Lab arranged.

MEDIA ST 2114 Radio Production I: 3 semester hours

Prerequisites: MEDIA ST 1110. Theory and practice in the creation of radio programs. Laboratory experience included.

MEDIA ST 2210 Television Production I: 3 semester hours

Prerequisites: MEDIA ST 1113 or Consent of Instructor. A study of the basic theories and practices of remote television production. The areas of producing and directing in the field will be studied. The class will provide the student with practical experience in remote camera operation and basic non-linear editing techniques. Lab arranged.

MEDIA ST 2211 Introduction To Digital Multimedia Production: 3 semester hours

Students will explore different state-of-the-art digital multimedia applications, including audio, video, and computer generated graphics, that are presently used in television, radio, CD, DVD, and online presentation. Current media related software such as QuickTime, Window Media, and Flash multimedia creation will be demonstrated and utilized to develop skill sets in those areas.

MEDIA ST 2212 Broadcast Writing And Reporting: 3 semester hours

Prerequisites: MEDIA ST 1110 or consent of instructor. Elementary principles and practice of writing for radio and television in varied program formats, emphasis on preparation of written materials for news and public affairs presentation. Lecture and lab.

MEDIA ST 2214 Screenwriting: 3 semester hours

Prerequisites: MEDIA ST 1070 or consent of the department. Writing fiction film narratives with particular emphasis on plot structure, theme, and character development.

MEDIA ST 2220 Promotion Essentials: 3 semester hours

Prerequisites: MEDIA ST 1100 or consent of instructor. Explains the difference between advertising and sales promotion and why companies use sales promotion. Understand how companies utilize the different sales promotion techniques in each medium. Emphasis on the key sales promotion tools used by companies.

MEDIA ST 2222 Convergence and Digital Media: 3 semester hours

This course deals with the production of various digital media platforms. The course is designed for beginners with an interest in learning how to shoot and edit content/stories for the Web, including social networking sites. Students will use flip cameras and learn how to use Final Cut Express software for editing.

MEDIA ST 2228 Public Relations Writing: 3 semester hours

Prerequisites: ENGL 3140 or equivalent An introduction to the process of planning, producing, and evaluating written public relations messages. Writing assignments include media releases, letters, memos, position papers, background papers, brochures, and reports and proposals.

MEDIA ST 2235 Media Theory: 3 semester hours

Prerequisite: MEDIA ST 1050. Theory based explanation of the relationship between mass media and society. Topics will include agenda-setting, violence and television, and other current issues from a critical perspective.

MEDIA ST 2271 History Of American Film: 3 semester hours

Prerequisites: MEDIA ST 1070 or consent of the instructor. History of American film from the late nineteenth century to the present.

MEDIA ST 2272 Contemporary Cinema: 3 semester hours

Prerequisites: MEDIA ST 1070 or Consent of Instructor. History of World Cinema from the 1940s to the present day.

MEDIA ST 2273 Survey of Film Genres: 3 semester hours

Prerequisite: MEDIA ST 1060 or MEDIA ST 1070, or consent of instructor. This course explores the historical and aesthetic significance of film varieties. Analysis of genres may include the western, horror, science fiction, musical, detective, war, romantic comedy, and other films by type.

MEDIA ST 2274 African-American Cinema: 3 semester hours

Prerequisites: Media Studies 1070 or equivalent. Impact of cinema and the entertainment industry on the social perceptions of African-Americans and on African-American culture. The history of African-American films from Oscar Micheaux in the 1920's through 1970's Blaxploitation to present directors and producers will be examined. African-American experiences and roles in films will also be discussed.

MEDIA ST 2275 Introduction To International Cinema: 3 semester hours

Prerequisites: Media Studies 1070 with a grade of C or better. Course provides an understanding of the art and history of international cinema; and helps to better understand film and filmmakers' intentions as well as the culture in which the film was produced. Films from Europe, Asia, South America, Africa and Australia will be examined. The artistic, technical, historical and social significance of these films, as well as their impact upon American cinema, will also be studied.

MEDIA ST 2500 Introduction To Comparative International Media Systems: 3 semester hours

This course introduces students to various media systems and theories around the world. It examines similarities and differences in media history, structures, and regulatory processes of developing countries, focusing on the dominant culture(s) of non-western regions. It also provides a framework for understanding and analyzing the cultural differences among global media systems in Africa, the Middle East, and Asia. In addition, the course examines aboriginal and other development media. The course fulfills the cultural diversity requirement.

MEDIA ST 3025 Current Issues in Advertising: 3 semester hours Prerequisites: MEDIA ST 1100, junior standing or consent of instructor.

Using recent topics in advertising, students will analyze, evaluate, and critique current topics as well as prepare current campaigns for open discussion and presentation.

MEDIA ST 3030 Advertising and Social Media: 3 semester hours

Prerequisite: MEDIA ST 2090. Examination of advertising online with such topics as: social communities, friendvertising, virtual worlds, brand building, media democracy, online opinions, gaming, and how companies can leverage their brand using two-way interaction.

MEDIA ST 3035 Advanced Media Theory: 3 semester hours

Prerequisites: MEDIA ST 2235 or consent of instructor. This course examines major schools, ownership and theorists in mass media fields. The writings of the Frankfurt School, Marshall McLuhan, Ben Bagdikian, and others will be examined.

MEDIA ST 3070 International Cinema: 3 semester hours

Prerequisites: MEDIA ST 1070 and MEDIA ST 2275. Understanding international film, its properties, methods, aesthetics, and its impact on culture and society.

MEDIA ST 3150 Feature Writing: 3 semester hours

Same as ENGL 3150. Prerequisites: ENGL 1100 or equivalent. Same as English 3150. Study of freelance and staff-written magazine or newspaper feature articles. Emphasis on relationship between types of publication and article content, research methods, and writing style. Frequent short assignments - journal entries, interviews, library projects, article critiques, and market reports - lead to production of full-length feature articles. May not be taken on the satisfactory/unsatisfactory option. The course counts toward the English Certificate in Writing.

MEDIA ST 3180 Reporting: 3 semester hours

Same as ENGL 3180. Prerequisites: ENGL3140 or equivalent. Same as English 3180. Theory and practice of reporting news for publication in the print media. Includes one classroom session and one field assignment weekly. Stories must be filed within deadline limit. Writing emphasis is on clarity, conciseness, and accuracy. The course counts toward the English certificate in Writing.

MEDIA ST 3214 News Writing: 3 semester hours

Same as ENGL 3140. Prerequisites: ENGL 1100 or equivalent. An introduction to news writing and reporting. Course covers basic components of news reporting principles, and news writing style and structure. Daily writing assignments include coverage of speeches, meetings and interviews, accidents, deaths, courts, sports, consumer affairs, and government. Emphasis on clarity, accuracy, and speed. The course counts toward the English Certificate in Writing.THIS COURSE WAS PREVIOUSLY COMM 3214 PRIOR TO AUGUST 2007.

MEDIA ST 3310 Television Production II: 3 semester hours

Prerequisite: MEDIA ST 2210 Study of advanced theories of television production. Refinement of studio television principles learned in MEDIA ST 2210. Exploration of complex program formats, and advanced non-linear editing techniques. Lab arranged.

MEDIA ST 3313 Advanced Video Editing: 3 semester hours

Prerequisites: Six (6) hours of television production. Study of advanced non-linear editing techniques, animation, and advanced graphics development. Exploration of state of the art editing formats. Lab arranged.

MEDIA ST 3316 Television News: 3 semester hours

Prerequisites: MEDIA ST 1113 or MEDIA ST 2110. Theory and laboratory practice in the gathering, writing, and delivery of news through television. Lab arranged.

MEDIA ST 3317 Radio And The Recording Industry: 3 semester hours

Prerequisite: Junior standing. Historical development and current status of the recording industry, particularly as it interacts with the broadcast industry. Impact of radio and recording technology on the development of rock and other popular music.

MEDIA ST 3334 Advertising Media Planning: 3 semester hours

Prerequisite: MEDIA ST 1050. A hands-on study of how to determine an advertising budget, select media and develop a strategic plan.

MEDIA ST 3336 Communication in Advertising: 3 semester hours

Prerequisites: Communication 1050 and junior standing, or consent of instructor. Overview of components in persuasive messages and how advertising messages and campaigns use various media to reach target audiences.

MEDIA ST 3338 Advertising Technique: 3 semester hours

Same as MKTG 3738 Prerequisite: MEDIA ST 1100 or MKTG 3700 or consent of instructor. Techniques for creating advertising messages and campaigns to reach target audiences. Focus on the process of persuasion, importance of advertising in modern economics, rationale for company advertisement, evaluation of advertising effectiveness, and assessment of advertising myths and truths. Practical application of messages and campaigns will be stressed.

MEDIA ST 3350 Mass Media History: 3 semester hours

Prerequisites: MEDIA ST 1050 or MEDIA ST 1110. Examination of the social, economic, and political factors contributing to the development of American mass media. Emphasis on significant personalities who helped shape its course; analysis of select critical works.

MEDIA ST 3355 Media Law And Regulation: 3 semester hours

Prerequisites: MEDIA ST 1050 or MEDIA ST 1110. Discussion of laws affecting the mass media. Exploration of problems and issues in legal regulation of media content, ownership, access, and accountability. Discussion of industry self-regulation and the influence of citizens' organizations.

MEDIA ST 3356 Global Media Systems And Trends: 3 semester hours

This course will survey major theories, global trends, and key stakeholders in the field of mass and multi-media. Designed to foster substantive comprehension of issues raised by transnational media corporations and their impact on other cultures and languages. Details about the BBC, CNN, MTV, Euro Disney, and the internet will be major components of this class.

MEDIA ST 3357 Media Convergence: 3 semester hours

This course will provide students with an overview of how computer technologies, telecommunication networks, and digital media are transforming contemporary culture and everyday life. Through handson projects on topics of social relevance, students will explore multiple platforms for reaching a variety of audiences. The course will also deal with policy issues such as regulation and competition.

MEDIA ST 3362 Storytelling: 1-3 semester hours

Prerequisites: Junior standing or consent of instructor. Course gives an overview of the history of storytelling, types of tales, and appropriate uses for storytelling. The primary emphasis of the course is in developing storytelling skills through preparation, performances, and evaluation.

MEDIA ST 3370 Documentary Film: 3 semester hours

Prerequisite: MEDIA ST 1070 Consideration of the history, theory, and criticism of nonfiction film. Screening of representative documentary films.

MEDIA ST 3380 Feature Film Screenwriting: 3 semester hours

This course involves a careful examination and execution of the art and craft of feature film screenwriting from concept through completion and marketing. Students will learn aspects of proper screenplay format, developing dramatic characters, theme, and plot, with emphasis on visual storytelling.

MEDIA ST 3394 Internship In Journalism: 3-6 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in journalism, masscommunication; an overall GPA of at least 3.0; consent of instructor; open to Media Studies majors only; not open to students who have any delayed grades. Practical work with an off-campus newspaper, magazine, or other news organization, supervised by a journalism professional in consultation with a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 3395 Internship In Advertising: 3-6 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in advertising; an overall GPA of at least 3.0; consent of instructor; open to Media Studies majors only; not open to students who have delayed grades. Practical work at an off-campus advertising agency, supervised by a professional in consultation with a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 3396 Internship In Radio: 3-6 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in radio, broadcasting; an overall GPA of at least 3.0; consent of instructor; open to Media Studies majors only; not open to students who have any delayed grades. Practical work at an off-campus radio station, supervised by a professional in consultation with a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 3397 Internship In Television/Film: 3-6 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in television, film, video; an overall GPA of at least 3.0; consent of instructor; open to Media Studies majors only; not open to students who have any delayed grades. Practical work at an off-campus television, film or video organization, supervised by a television, film or video professional in consultation with a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 3398 Internship In Media Studies: 3-6 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in television, film, video, radio, journalism, broadcasting, mass communication; an overall GPA of at least 3.0; consent of instructor; open to Media Studies majors only; not open to students who have any delayed grades. Practical work at an off-campus agency, supervised by a professional in consultation with a faculty member. This course may be repeated for up to 6 credit hours.

MEDIA ST 3500 Advanced Advertising Seminar: 3 semester hours

Prerequisites: MEDIA ST 2080, MEDIA ST 2090, and MEDIA ST 3334 or consent of instructor. Students utilize skills learned in copywriting, creative advertising, and media buying and planning. Students are graded on research and customer insights, strategy, messaging and creative media plan, advertising partnerships, and measures of effectiveness. The course final includes preparing a Plan Book for a specific client and presenting at a national competition.

MEDIA ST 3505 Field Experience in Advertising: 3 semester hours

Prerequisites: Junior standing and completion of 3 courses from the Certificate in Advertising or consent of instructor. Through supervised travel, students will examine current ad campaigns, media placement, and effects on consumer purchasing behaviors. They will develop a broad hands-on understanding of the industry while applying principles and practices learned in the classroom. Topics include creativity with visual images and/or photographs, copywriting, accounting planning, account services, and media planning and buying. For field experience, students will visit advertising agencies, businesses that have in-house advertising departments, vendors (such as printers), museums, and other creative venues in St. Louis and/or other cities.

MEDIA ST 3990 Directed Readings In Media Studies: 3 semester hours

Prerequisites: consent of instructor; not open to students who have any delayed grades. Supervised independent study involving readings, conferences, papers, in one of the department's disciplines: advertising, radio, television, film, or journalism.

MEDIA ST 4040 Special Topics in Media Studies: 1-6 semester hours

Prerequisites: Junior, Senior, or Graduate standing and consentof instructor. Special topics with subject matter dealing with current issues, (theoretical or applied), in the discipline of media studies. Since the topics of Media Studies 4040 may change from semesterto semester, the course may be repeated for up to 12 credit hours.

MEDIA ST 4270 Feature Film Writing: 3 semester hours

Prerequisites: MEDIA ST 1070 or consent of instructor. This course will include story conceptualization, development, and drafting a feature film script ready for production. Characterization, dramatic structure, thematic subtext, and visual storytelling will be emphasized.

MEDIA ST 4271 Feature Film Production: 3 semester hours

Prerequisites: MEDIA ST 2210 or consent of Instructor. This course will emphasize production techniques applicable to a wide variety of audio, film, and video-based media. Students will be involved in feature film production assignments on location in addition to regularly scheduled classes.

MEDIA ST 4272 Feature Film Post Production: 3 semester hours

Prerequisites: MEDIA ST 2210 or consent of instructor. This course will provide instruction in editing techniques and motivation, as well as continuity, rhythmic, graphic, and temporal editing principles. Students will work on feature film segments in addition to regularly scheduled classes.

MEDIA ST 4335 Seminar in Applied Media Studies Research: 3 semester hours

Prerequisites: MEDIA ST 1135 or consent of instructor. This course explores the use of medica concepts, theories, methods and designs in applied field settings with an emphasis on original research.

MEDIA ST 4357 Media Ethics: 3 semester hours

Same as PHIL 4457. Prerequisites: Nine hours of philosophy, communication, or media studies, or consent of instructor. This course is concerned with some of the issues that arise from the intersection of ethics & modern media communications. Attention is given to some of the more specific concerns of media ethics, such as truth, honesty, fairness, objectivity and bias; personal privacy and the public interest; advertising; conflicts of interest; censorship and offensive or dangerous content (pornography, violence). Particular attention will be given to problems posed by the development of personal computer communications through bulletin boards, on-line services, and the Internet.

MEDIA ST 4392 Administration Of Co-Curricular Activities: 3 semester hours

Prerequisites: Junior Standing or consent of instructor. A survey of skills required to administer the various co-curricular activities associated with teachers in the secondary schools, such as theatre performances and mass media centers.

MEDIA ST 4400 Senior Project: 3-6 semester hours

Prerequisites: Senior Status, Consent of Instructor. The capstone experience requires seniors to produce an original research project, a representative portfolio, or an intrinsic case study, which exemplifies their undergraduate study. Students will present their work to the instructor supervising the course, as well as program related-faculty. Repeatable up to 6 credit hours.

Theatre and Dance Courses

TH DAN 1006 Beginning Ballet Technique: 2 semester hours

Introduction to the art of ballet emphasizing basic movement, technique and terminology. Course of study will include basic barre exercises, center work, and across the floor progressions for proper alignment, strength, flexibility, and coordination. Prior dance experience is not required. Dance attire and ballet slippers will be required. Course may be repeated for up to 10 credit hours.

TH DAN 1007 Beginning Jazz Dance Tecnique: 2 semester hours

Introduction to the art of jazz dance emphasizing basic principles of traditional and contemporary forms of jazz dance movement, technique, terminology, and style. Course will focus on increasing strength, flexibility, coordination, and creative expression. Prior dance experience is not required. Dance attire and jazz shoes will be required. Course may be repeated for up to 10 credit hours.

TH DAN 1008 Beginning Modern Dance Technique: 2 semester hours

Introduction to the art of Modern Dance movement, technique, and terminology. Course of study will introduce the elements of time, space, and energy through basic structured exercises and improvisation. Emphasis will be focused on allignment, strength, flexibility, coordination, and creative expression. Prior dance experience is not required. Dance attire is required. Shoes are not required. Course may be repeated for up to 10 credit hours.

TH DAN 1023 Fundamentals Of Dance: 3 semester hours

This course provides an introductory exploration of movement through various styles of dance, emphasizing movement vocabulary, stretching, strengthening, body alignment, and creative expression. Prior dance experience is not required. Dance attire and shoes will be required.

TH DAN 1060 Theatre Workshop: 1-2 semester hours

Prerequisites: TH DAN 1900 and Consent of Instructor. Course provides practical application of technical theatre practices through 45 hours of lab work within the areas of scenery, lighting, properties, and sound in conjunction with departmental productions. Personal safety equipment and basic tools will be required. Course may be repeated for up to 8 credit hours.

TH DAN 1105 Dance Repertory: 1-3 semester hours

Prerequisite: Audition or Consent of Instructor Dancers are selected through audition or consent of instructor to participate in the dance repertory. Students will learn and rehearse original choreography created by faculty and guest artists. At the end of the semester, students will perform original works in the annual dance concert. Dance attire and appropriate dance shoes are required. Course may be repeated for up to 6 hours.

TH DAN 1175 Arts And Ideas: 3 semester hours

Same as Art and Art History 1175, English 1175, History 1175, Music 1175, Philosophy 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

TH DAN 1210 Fundamentals Of Acting: 3 semester hours

Course develops personal communication and presentational skills through vocal, physical, and emotional exercises designed for the beginning actor. Course emphasizes relaxation, concentration, improvisation, script analysis, characterization and scene work exercises to develop elementary performance skills.

TH DAN 1600 Voice Ad Diction/Vocal Performance: 3 semester hours

Course promotes development of clear, distinct enunciation and correct pronumciation for mass media communication, public address, theatre, and oral interpretation. Course includes development of oral-presentational and self promotional skills for voice acting/voice-over in contemporary theatre and media.

TH DAN 1800 Introduction To Theatre: 3 semester hours

A study of Theatre as an art form, emphasizing the audience's appreciation of the art of the playwright, actor, director, designers, and technicians. Major periods, genres, and dramatic forms from classical to modern to the avant garde as well as performance art will be covered. Students will attend performances and learn about how theatre functions as an art and an industry in today's world. Attendance at several live theatrical (theatre, play, musical, opera, and dance) performances, will be required.

TH DAN 1850 Introduction To Non-Western Theatre: 3 semester hours

Survey of theatre forms of the non-European world in which primary attention is concentrated on analysis of traditional dance drama and puppet theatres of East Asia, South Asia, the Middle East and Africa. Similiar forms of European theatre will be included for comparative purposes. Focus on the development of world theatre from a visual point of view, from earliest storytelling rituals through international stage development to contemporary theatrical forms, with a view to understanding the global perspective. Course will survey visual media and writings on dance and theatre traditions found around the non-Western World. (Satisfies the Cultural Diversity requirement).

TH DAN 1900 Introduction To Theatre Technology: 3 semester hours Introductory course covering the basic theories and techniques of theatre technology including stage equipment and safety, scenery, lighting, costuming, properties, sound and box office. Course includes practical application through a minimum of 25 hours of lab work in conjunction with a departmental production.

TH DAN 1910 Introduction To Theatrical Design: 3 semester hours

Prerequisites: TH DAN 1900 or Consent of instructor Introductory course covering the elements and principles of design in the areas of scenery, lighting, and costumes. Course will include various creative projects in two and three dimensions. Some graphic materials will be required.

TH DAN 2006 Intermediate Ballet Technique: 2 semester hours

Prerequisites: 2.0 Credit Hours of TH DAN 1006 or Consent of instructor Ballet movement, technique, vocabulary, and aesthetics with particular focus on precision and performance. Course of study will be a continuation of Beginning Ballet Technique barre exercises, center work, and across the floor progressions. Dance attire and Ballet slippers will be required. Course may be repeated for up to 10 credit hours.

TH DAN 2007 Intermediate Jazz Dance Technique: 2 semester hours

Prerequisites: 2.0 Credit Hours of TH DAN 1007 or consent of instructor. Jazz dance movement, technique, vocabulary, and aesthetics with particular focus on personal movement style and expression. Course will also study unique dance styles and artists that have influenced the stage video, film and commercial media industry. Dance attire and jazz shoes will be required. Course may be repeated for up to 10 credit hours.

TH DAN 2008 Intermediate Modern Dance Technique: 2 semester hours

Prerequisites: 2.0 credit hours of TH DAN1008 or consent of instructor. Modern dance movement, technique, vocabulary, and aesthetics. Course of study will be a continuation of Beginning Modern Dance Technique through incorporation of more complex movement and patterns. Emphasis on accuracy and performance will be explored. Dance attire is required. Dance shoes are not required. Course may be repeated for up to 10 credit hours.

TH DAN 2020 Acting for the Camera: 3 semester hours

An acting course that prepares the actor for work in front of a camera. Working with broadcast quality cameras, students will learn the art of language and expression. Students will learn the art and skill of communicating to an audience. Students also acquire the skills for working with other actors on camera, close-ups, working with props, continuity and hitting your mark.

TH DAN 2105 Script Analysis: 3 semester hours

This course introduces students to elementary script analysis. Students learn basic structural and interpretative strategies for analyzing play scripts and other forms of performance texts.

TH DAN 2112 Scene Study: 3 semester hours

This course focuses on actor-training methodologies of Stanislavsky and other text-based approaches. Increases understanding of psychological motivation, concentration, focus of attention and clarity of physical expressiveness. Students prepare and present a minimum of three scenes.

TH DAN 2195 Practicum In Performance Studies: 1-3 semester hours

Prerequisite: Consent of instructor Provides practical experience in acting, directing, or dramaturgy through rehearsal and performance in conjunction with department productions, or other approved independent study projects. Laboratory time will be scheduled and may include evening and weekend rehearsals and performances. Course may be repeated for up to 8 credit hours.

TH DAN 2196 Practicum In Scenery/Lighting/Sound In Theatre Production: 1-3 semester hours

Prerequisites: TH DAN 1900 and Consent of Instructor. Course provides practical experience in scenery, lighting, sound, and properties implementation and/or running crew work in conjunction with departmental productions or other approved independent study projects. Running crew work will involve evening, weekend and daytime hours according to assignment. Credit hours are determined based on the scope of the project. Course may be repeated for up to 6 credit hours.

TH DAN 2197 Practicum In Costume: 1-3 semester hours

Practicum in costume construction, cutting, draping, millinery, fabric dyeing/painting, distressing, crafts including wardrobe and makeup running crews, in conjunction with the theatre and dance department productions, or other approved independent study projects. In addition to daytime lab hours, occasional weekend and/or evening laboratory time will be required. Appropriate clothing, personal safety and sewing equipment will be required. Course may be repeated for up to 8 credit hours.

TH DAN 2198 Practicum In Dance: 1-3 semester hours

Course provides practical experience in dance, stage movement, stage combat, choreography and/or running crew work in conjunction with departmental productions, or other approved independent study projects. Running crew work will involve evening, weekend, and daytime hours according to assignment. Credit hours are determined based on the scope of the project. Course may be repeated for up to 6 credit hours.

TH DAN 2210 Ensemble Acting: 3 semester hours

Prerequisites: TH DAN 1210. A Laboratory acting course providing an "outside-in" starting point for theatrical creation and study, balancing and countering the "inside-out" approach of Stanislavsky-based actor training. Emphasis is paid to ensemble creations, physical characterization, cooperative methods and object performance. May involve practices and theories of Jerzy Grotowski, Augusto Boal, Jacques Lecoq, and/or Tadashi Suzuki.

TH DAN 2241 Argumentation and Debate: 3 semester hours

Prerequisite: COMM 1040, or COMM 1041, or consent of instructor. Principles of argumentation and debate with practice in preparing briefs and in delivering spoken arguments in formal debate. Emphasis on analysis of issues, logical reasoning, and audience analysis.

TH DAN 2244 Introduction to Directing: 3 semester hours

Prerequisites: TH DAN 2105. An overview of the analytical and creative processes that inform the director's work. Students engage in a close examination of texts, key concepts, and directorial choices in staged performances, opera, films, and video. Students will learn how to articulate responses to theatrical/film work, create and present projects, understand the history and role of the director, and unlock the imagination as an interpretive artist.

TH DAN 2250 Stagecraft: 3 semester hours

Prerequisites: TH DAN 1900 or Consent of instructor A survey of the theories, terminology, and practices of methods and equipment of scenic and properties construction, painting, and rigging. Course includes practical application through 45 hours of lab work in conjunction with department productions. Personal safety equipment will be required.

TH DAN 2260 Introduction To Theatrical Costume Production: 3 semester hours

A survey of the theory, practices and vocabulary of theatrical costuming; the visualization and realization of the costume through the arts of pattern cutting; the construction techniques; draping; dyeing, painting, and distressing. Course includes practical application of techniques through required 45 hours of lab work in conjunction with current department productions.

TH DAN 2270 Audio Recording for Live Production: 3 semester hours

Prerequisites: TH DAN 1900 or consent of instructor. This course is intended to provide an introduction to audio systems. It will include exposure to waveforms and thephysical qualities of sound, as well as audio signal flow in analog and digital systems. The course is also an introduction to acoustics, both indorrs and out, microphone theory and proper use, design and placement of speakiers, microphones and audio recording equipment.

TH DAN 2280 Lighting And Sound Technology: 3 semester hours

Prerequisites: TH DAN 1900 or consent of instructor. A survey of the theories, terminology, and practices of methods, equipment, and control systems of lighting and sound technology for the stage. Course includes practical application through 45 hours of lab work in conjunction with departmental productions. Basic personal tools will be required.

TH DAN 2290 Drafting For The Theatre: 3 semester hours

Prerequisites: TH DAN 1900 or Consent of instructor Survey course covering the fundamental techniques of two dimensional drafting. Drafting equipment will be required.

TH DAN 2300 Stage Management: 3 semester hours

Prerequisite: Consent of instructor Course develops fundamental stage management skills needed to supervise all operative aspects of play production from auditions through performance. These skills include: interpersonal and leadership skills, conflict resolution techniques, venue and staff management/scheduling, and technical script analysis. Course includes production experience.

TH DAN 2810 History Of World Theatre And Drama Through The Restoration: 3 semester hours

Prerequisites: TH DAN 1800 or Consent of instructor Survey of the history of influence of different cultures, traditions, and technologies on development of theatre as a social institution. History of Theatre and drama from ancient cultures to the Restoration period. Ritual and religious drama. Study of the origins of theatre and drama from oral tradition, myth, storytelling, Shamanism and collective ritual, Greek festival drama, and cloister drama of different cultures. Rise of secular drama, the traditions of classical Greek theatre. Study of the Renaissance, and drama in Europe, Asia, Africa, and the New World.

TH DAN 2820 History Of World Theatre & Drama From 18Th C To Contemporary Time: 3 semester hours

Prerequisites: TH DAN 1800 or Consent of instructor History of theatre from 18th century to contemporary times. Survey of history of influence of different cultures, traditions, and technologies on the development of theatre as a social institution. Study of realism and subsequent departures from realism in theatre, drama and performance.

TH DAN 2840 History Of Dance To The 19Th Century: 3 semester hours

Prerequisites: TH DAN 1800 or Consent of instructor Survey of western dance from pre-history through the middle ages and renaissance to 19th century. Study of dance in historical and cultural context, its function in society and its relationship to contemporary artistic expression.

TH DAN 2841 History Of Dance From The 19Th Century To Contemporary Times: 3 semester hours

Prerequisites: TH DAN1800 or Consent of instructor Survey of western dance practice from 1850 to the present. History of modern dance: art dance from Isadora Duncan to Martha Graham.

TH DAN 3006 Advanced Ballet Technique: 2 semester hours

Prerequisites: 4 Credit hours of TH DAN 1006 and/or TH DAN 2006 or consent of instructor. Advanced ballet movement, technique, vocabulary, and aesthetics with particular focus on precision and performance. Course of study will include advanced barre exercises, center work, and across the floor progressions. Variations, partnering, and pointe work may be incorporated at the discretion of the instructor. Dance attire and ballet slippers will be required. Course may be repeated for up to 6 credit hours.

TH DAN 3007 Advanced Jazz Dance Technique: 2 semester hours
Prerequisites: 4 Credit hours of TH DAN 1007 and/or TH DAN 2007
or Consent of instructor Advanced jazz dance movement, technique,
vocabulary, and aesthetics with particular focus on personal movement
style and performance. Study of unique dance styles and artists that have
influenced the stage, video, film and commercial and media industry.
Dance attire and jazz shoes will be required. Course may be repeated for
up to 6 credit hours.

TH DAN 3008 Advanced Modern Dance Technique: 2 semester hours
Prerequisites: 4 Credit hours of TH DAN 1008 and/or TH DAN 2008
or Consent of Instructor Advanced level of modern dance movement,
technique, vocabulary, and aesthetics. Incorporation of more complex

technique, vocabulary, and aesthetics. Incorporation of more complex movement and patterns. Emphasis on accuracy and performance will be explored. Dance attire is required. Dance shoes are not required. Course may be repeated for up to 6 credit hours.

TH DAN 3009 Dance Choreography For The Stage, Television And Film: 3 semester hours

Prerequisites: 4 Credit Hours of any level and combination of TH DAN 1006, TH DAN 1007, TH DAN 1008, TH DAN 2006, TH DAN 2007, TH DAN 2008, TH DAN 3006, TH DAN 3007 and TH DAN 3008. Course will focus on directed movement studies and composition techniques for the stage, television, and film. Personal creativity and original movement inventions will be explored, as well as the creation, development, and transformation of original movement studies into completed works. Dance attire and dance shoes are required. Course may be repeated for up to 6 credit hours.

TH DAN 3060 Advanced Theatre Workshop: 1-2 semester hours

Prerequisites: TH DAN 1060, TH DAN 1900 and Consent of instructor. Practical application of technical theatre practices through 45 hours of lab work within the areas of scenery, lighting, properties, and sound in conjunction with departmental productions. Personal safety equipment and basic tools will be required. Course may be repeated for up to 8 credit hours.

TH DAN 3105 Advanced Dance Repertory: 1-3 semester hours

Prerequisites: Consent of instructor or Audition Dancers are selected through audition or consent of instructor to participate in the dance repertory. Students will learn and rehearse original choreography created by faculty and guest artists. At the end of the semester, students will perform original works in a dance concert. Dance attire and appropriate dance shoes are required. Course may be repeated for credit up to 12 hours.

TH DAN 3195 Advanced Practicum In Performance Studies: 1-3 semester hours

Prerequisite: Consent of instructor Course provides advanced practical experience in acting, directing, or dramaturgy through rehearsal and performance in conjunction with department productions, or other approved independent study projects. Laboratory time will be scheduled and may include evening and weekend rehearsals and performances. Course may be repeated for up to 8 credit hours.

TH DAN 3196 Adv Theatre Practicum: Scenery/Lighting/Sound In Theatre Produc: 1-3 semester hours

Prerequisite: Consent of Instructor Course provides advanced practical experience in scenery, lighting, sound, and properties implementation and/or running crew work in conjunction with departmental productions, or other approved independent study projects. Running crew work may involve evening and weekend assigned times. Additional daytime hours will vary according to assignment. Credit hours are determined based on the scope of the project. Course may be repeated for up to 6 credit hours.

TH DAN 3197 Advanced Practicum In Costume: 1-3 semester hours

This course provides advanced practical experience in costume construction, cutting, draping, millinary, fabric dyeing/ painting, distressing, crafts including wardrobe and makeup running crews, in conjunction with the theatre and dance department productions, or other approved independent study projects. In addition to daytime Lab hours, occasional weekend and/or evening laboratory time may be required. Appropriate clothing and personal safety equipment will be required. Personal equipment will be required. Course may be repeated for up to 8 credit hours.

TH DAN 3198 Advanced Practicum In Dance: 1-3 semester hours

Prerequisite: Consent of instructor Course provides practical experience in dance, stage movement, stage combat, choreography and/or running crew work in conjunction with departmental productions, or other approved independent study projects. May involve additional hours including evening and weekend assigned times. Credit will be based on the scope of the project. Course may be repeated for up to 6 credit hours.

TH DAN 3211 Period Styles of Acting: 3 semester hours

Prerequisites: TH DAN 1210, TH DAN 2210. The course will expose students to the rigorous analytical, physical, intellectual, and vocal demands of acting within a specific historical period. Students will focus on monologue and scene study from the following: Greek Tragedy, Spanish Golden Age, Elizabethan Theatre, Restoration Comedy, Italian Commedia, French Farce, and British comedy of Manners with a special focus on style distinctions between each.

TH DAN 3218 Shakespeare and Verse Acting: 3 semester hours

Prerequisites: TH DAN 1210, TH DAN 2210. An intermediate acting course designed to engage students in Shakespeare's dramatic works from the point of view of the actor. Through text analysis, scene study, vocal work, and acting exercises, students explore the meaning, music and theatrical power of Shakespeare and other playwrights. Topics explored include: blank verse acting, line breath support, scansion, phrasing, word emphasis, antithesis, and imagery.

TH DAN 3252 Costume Design: 3 semester hours

Prerequisites: TH DAN 1910, TH DAN 2260, or consent of instructor. Content of course includes study of theories, styles, visualization of ideas, and techniques of costume design; discussion of principles of design, script analysis, the collaborative roles of designers in the theatrical production; research, and exploration of character representation; study of the human figure, drawing, and rendering techniques. Course may be repeated for up to 6 credit hours.

TH DAN 3254 Costume Production And Construction Techniques: 3 semester hours

Prerequisites: TH DAN 1900, TH DAN 2260 or Consent of instructor Study of theory and application of pattern making, fitting, construction techniques for costumes and undergarments to achieve authentic-appearing costumes using contemporary methods. Provides practical experience in costume construction, as well as wardrobe and makeup. Participation in running crews, in conjunction with the theatre and dance department productions, or other approved independent study projects may be required. Personal equipment will be required. Weekend and evenings may be required. Appropriate clothing and personal safety equipment required. Course may be repeated for up to 8 credit hours.

TH DAN 3257 Makeup For Theatrical Productions: 3 semester hours

Prerequisites: TH DAN 1800, TH DAN 1910, or consent of instructor. The art of makeup and its relation to production. Overview of European history and tradition of makeup. Theory, history and the practice of makeup traditions for theatre, dance and performance will be included.

TH DAN 3260 Scenic Design: 3 semester hours

Prerequisites: TH DAN 1900, TH DAN 1910, TH DAN 2250, TH DAN 2290, or consent of instructor. Survey of the theories and practices of scenery design for the theatre. This course will emphasize the creative process from conceptual script analysis through final design projects, sketching, drafting, rendering, and model making. Personal graphics and drafting materials will be required.

TH DAN 3261 Lighting Design: 3 semester hours

Prerequisites: TH DAN 1900, TH DAN 1910, TH DAN 2280, or consent of instructor. Survey of the theories and techniques of lighting design for theatre and dance. This course will emphasize the creative process from script and choreographic concepts through final design projects, sketching, drafting, rendering, and related paperwork. Personal graphics and drafting materials will be required.

TH DAN 3263 Scene Painting: 3 semester hours

Prerequisites: TH DAN 1900, TH DAN 1910, or consent of instructor. Survey of theories, materials, and techniques of scene painting for the stage. Course includes 45 lab or studio hours for application and practice of painting projects, and possible evening and/or weekend studio hours.

TH DAN 3305 Writing For Performance: 3 semester hours

Prerequisite: Consent of instructor Introduction to writing for performance, including playwriting and dramatic adaptation. Students' particular interests will determine course content: ranging from sketch comedy or adaptation of literature for the stage, to full-length comic or dramatic plays. This course is writing intensive and may require additional laboratory hours.

TH DAN 3399 Stage Combat: 3 semester hours

Prerequisites: Junior or Senior standing, or consent of instructor. This is a movement course designed to expand the acting student's awareness of the body as a vehicle for the communication of emotion, action, and drama on the state. It will introduce the skills and techniques necessary for the creation of safe and effective illusions of violence for the state.

TH DAN 4020 Directing for the Camera: 3 semester hours

Prerequisites: TH DAN 2020. This directing course prepares the student director to work with both the actors and the cinematographer to achieve the directorial concept. The director will work with actors and a cinematographer to produce a short-length film/video from a prepared script. The creation of shooting scripts, story boards, and a shooting schedule are covered in the course.

TH DAN 4040 Special Topics in Theatre: 1-6 semester hours

Prerequisites: Junior, Senior, or consent of instructor. Special topics with subject matter dealing with current issues (theoretical or applied) in the discipline of Theatre. Course may be repeated for up to 12 credit hours, provided the topic is different.

TH DAN 4041 Special Topics in Dance: 1-6 semester hours

Prerequisites: Junior, Senior, or consent of instructor. Special topics with subject matter dealing with current issues (theoretical or applied) in the discipline of Dance. Course may be repeated for up to 12 credit hours, provided the topic is different.

TH DAN 4220 Directing For The Theatre: 3 semester hours

Prerequisites: TH DAN 1210 or consent of instructor. A survey of the theories and practices of theatrical directing, beginning with the theories and techniques of accomplished directors. The stage director's role in performance development will be studied through script analysis, production planning, and the rehearsal process, culminating with a live performance. Final projects are laboratory scenes or a short one-act play.

TH DAN 4230 Theatre Management: 3 semester hours

Prerequisite: Th&Dan 2230 Comprehensive study and practice of theatre production and management techniques, including season selection, fundraising, budget control, venue analysis and acquisition, box office, facility management, production scheduling, interpersonal skills, conflict resolution, and promotional techniques for theatre.

TH DAN 4261 Advanced Projects In Design And Technology: 1-3 semester hours

Prerequisites: TH DAN 1910 and consent of instructor. Provides opportunities for supervised advanced projects in theatre design or technology in conjunction with departmental productions, or other independent study projects. Credit assigned based on scope of project. Course may be repeated for up to 6 credit hours.

TH DAN 4262 Advanced Problems In Costume: 1-3 semester hours

Prerequisites: TH DAN 2260 or TH DAN 3252 or consent of instructor. Provides opportunities in supervised special projects in dostume design and technology in conjunction with actual productions or other advanced independent projects. Includes design research process, script and character analysis, study of historical context and social environment, development of conceptual designs, study of current costume design and wardrobe practices. Personal equipment will be required. Credit based on scope of project. Course may be repeated for up to 6 credit hours.

TH DAN 4390 Theatre Internship: 1-3 semester hours

Prerequisites: Junior level with consent of instructor Provides opportunites for supervised projects in conjunction with off-campus professional theatre and/or dance companies in performance, management, design or technology. Credit based on scope of assignment. Course may be repeated for up to 6 credit hours.

TH DAN 4391 Dance Internship: 1-3 semester hours

Prerequisites: Junior level with Consent of instructor Provides credit for approved supervised projects in conjunction with off-campus professional theatre and/or dance companies. Credit based on scope of assignment. Course may be repeated for up to 6 credit hours.

TH DAN 4886 The Curriculum and Methods of Teaching Speech and Theatre: 3 semester hours

Same as SEC ED 4886. Prerequisites: TCH ED 3310 or TCH ED 5310; students must be within three hours of completing a major in either Communication or Theatre, with 15-18 hours completed in the other subject area. A study in the scope and sequence of the Speech and Theatre courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course prepares students for reflective teaching by relating course readings to field experience and theory to practice. To be taken prior to student teaching and concurrently with SEC ED 4989: Secondary Professional Internship. This course must be completed in residence. Not available for graduate credit.

TH DAN 4900 Senior Project: 3 semester hours

TH DAN 4980 Internship In Theatre: 3 semester hours

Prerequisites: Senior standing, with at least 12 hours of course work in theatre; an overall GPA of at least 3.0; consent of instructor; open to communication majors only; not open to students who have any Y or delayed grades outstanding. Supervised practical work at a theatre off campus in one of the following areas: acting, directing, design, stage management. Repeatable, but no more than six hours total credit may be earned in internship courses. Only three hours in internship courses may be counted toward the 36-hour minimum required for the degree.

College of Nursing

General Information

The College of Nursing offers academic nursing programs at the undergraduate and graduate levels. Knowledge and skills needed to complete the professional licensure examination to become a registered nurse are available through the traditional baccalaureate option. A parttime, evening and weekend scheduling option is available, as is an accelerated option for students with degrees in other fields or who meet the admission criteria for this intensive option. Nurses who have obtained their basic nursing education through associate degree or diploma nursing programs may fulfill the requirements for the BSN completion option without repetition of previous nursing education. The Master of Science in nursing program offers areas of emphasis in the roles of nurse educator and advanced practice nursing. The Ph.D. program in Nursing is offered in cooperation with the schools of nursing at the University of Missouri-Columbia and the University of Missouri-Kansas City. Admission to the Ph.D. program is available at the post BSN and MSN levels. The Doctor of Nursing Practice program also is offered in cooperation with the schools of nursing at the University of Missouri-Columbia and the University of Missouri-Kansas City, and prepares students for the highest level of advanced clinical nursing practice.

International Students

All students with International or Permanent Resident status are required to complete an English as a second language (ESL) assessment with the UMSL ESL office. Based upon this assessment students may be required to complete recommended ESL courses before enrolling in nursing courses.

Continuing Education-Extension and Outreach

Both credit and noncredit continuing education offerings in nursing are presented to provide nurses with new information, techniques, and trends within the nursing profession. Some of these offerings are in outreach sites as part of the college's commitment to working in collaboration with community partners to provide higher education for nurses.

Professional Organizations

Sigma Theta Tau International Honor Society for Nursing

Nu Chi is the College of Nursing's official chapter of Sigma Theta Tau International Honor Society. Membership is offered by invitation to nursing students in the upper third of their class and to nurses recognized as outstanding community nursing leaders.

Student Nurses' Association

The College of Nursing is a constituent of the National Student Nurses' Association. The purpose of the organization is to provide baccalaureate students an opportunity to connect with the nursing profession through service and professional development activities. The organization is open to all nursing majors and clinical nursing majors.

Minority Student Nurses' Association

The College of Nursing is a constituent of the Black Student Nurses' Association. The purpose of this organization is to provide black nursing

students in the prelicensure baccalaureate program the opportunity to serve as a support group for African-American students, collaborate with other African-American groups to compile archives relevant to African-American nurses, and to promote participation in interdisciplinary activities.

Undergraduate Study

Undergraduate Studies

The College of Nursing provides coursework leading to the Bachelor of Science in nursing (BSN). The program is accrdited by the Commission on Collegiate Nursing Education and the pre-licensure tracks are fully approved by teh Missouri State Board of Nursing. The undergraduate program offers two means for achieving the bachelor's degree in nursing: studies that are preparatory for completion of the professional nurse licensure examination (pre-licensure track) and advanced placement for the professional registered nurse without repetition of fundamental nursing and clinical courses (RN to BSN track). An accelerated prelicensure option is available for qualified persons who hold earned degrees in non-nursing fields, or outstanding students who have completed all prescribed general education and science course work. The traditional (non-accelerated) BSN pre-licensure option can be completed on a fulltime basis or through a part-time evening/weekend program. Students must meet university and College of Nursing requirements. Baccalaureate students meeting admission criteria may participate in the Pierre Laclede Honors College. Students who have been dismissed from another nursing program are not eligible for admission to the pre-licensure BSN program.

Faculty maintain the right to make appropriate curriculum changes to comply with standards for accreditation and approval as stipulated by the Commission on Collegiate Nursing Education and the Missouri State Board of Nursing's minimum standards. For that reason, students receive exceptional advising support from college advisors.

Degree Requirements for B.S.N.

The Bachelor of Science in nursing degree requires comprehensive course work in general education and nursing. Basic undergraduate nursing course work includes theory, on-campus laboratory and clinical activities. Clinical experiences require weekday, evening, and/or weekend commitments. Full-time study in the pre-licensure baccalaureate track can be completed in four academic years. Part-time study is available with nursing classes in the evenings and clinical on weekends. The nursing clinical curriculum can be completed in three years following completion of general education courses. The pre-licensure accelerated track requires full-time study and can be completed in 15 months. The RN to BSN track is offered at selected metropolitan sites, on-campus, and by Internet. Clinical activities in the RN to BSN Program are community-based and may be completed in the student's home community.

Upon completion of the BSN program, students are expected to have achieved the following learning outcomes:

- Integrate into practice theories and evidence-based concepts from nursing, the arts, sciences, and humanities to provide comprehensive nursing care in a variety of settings.
- Integrate clinical reasoning and problem solving in professional practice.
- Administer culturally competent, compassionate, holistic care to promote healthy outcomes for diverse individuals, families, communities, and populations during all life phases.

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- Use evidence-based practices to promote health, manage illness, and prevent injury among individuals, families, communities, and populations.
- Utilize communication skills to enhance relationships with patients and families and collaboration among members of the health care team.
- Assume responsibility and accountability for decisions and actions based on professional intrapersonal values, ethical and legal obligations, standards of practice, social justice, and economics.
- Integrate principles of health education, management, leadership, quality care, and patient safety when organizing, coordinating, and engaging in professional practice.
- Demonstrate knowledge of health care policies and finance in a regulatory environment and their influence on health care access and quality.
- Exhibit motivation and self-direction in activities that contribute to lifelong personal, professional, and intellectual development.
- Utilize health care technology and information management systems to promote quality care and patient safety.

Satisfactory/Unsatisfactory (Pass/Fail) Grading

Undergraduate nursing majors may not take required prerequisite general education or nursing courses on a satisfactory/unsatisfactory basis.

Undergraduate Degree Requirements General Education Requirements

Nursing majors must complete all general education requirements (p. 28) of the university as outlined in this Bulletin.

In addition to meeting the university's general education requirements, the following prerequisite courses must be completed prior to beginning the clinical major. See a curriculum planning guide for specific courses and proper sequencing.

1) Natural science course work

BIOL 1131 (p. 446)	Human Physiology And Anatomy I	4
BIOL 1141 (p. 446)	Human Physiology And Anatomy II	4
BIOL 1162 (p. 446)	General Microbiology	3
CHEM 1052 (p. 446)	Chemistry For The Health Professions (or equivalent)	4
2) Behavioral and	d social science course work	
PSYCH 1003 (p. 446)	General Psychology	3
PSYCH 1268 (p. 446)	Human Growth And Development	3
ECON 1000 (p. 446)	Introduction To The American Economy (or equivalent)	3
Social science ele	ective	
3) Humanities		
Any Philosophy co	ourse (as part of the University's 3 humanities	

requirement) 4) Nursing

NURSE 2103 (p. 446)	Nutrition And Health (or equivalent)	3
NURSE 2105 (p. 446)	Communication In The Nursing Profession	3
NURSE 3799 (p. 446)	Quantitive Analysis In The Health Sciences (or equivalent)	3
Nursing Course	Work Requirements	
PRE-LICENSURE weekend options	E - 4 year traditional and part-time evening and	
NURSE 2101 (p. 446)	Introduction to Nursing	2
NURSE 3101 (p. 446)	Nursing And Health ¹	6
NURSE 3106 (p. 446)	Assessment Of Clients In Health And Illness ¹	4
NURSE 3110 (p. 446)	Pathophysiological Bases Of Nursing Practice	3
NURSE 3111 (p. 446)	Pharmacotherapeutics In Nursing Practice	3
NURSE 3205 (p. 446)	Adult Health Nursing I ¹	5
NURSE 3206 (p. 446)	Adult Health Nursing II ¹	5
NURSE 3214 (p. 446)	Psychiatric Mental Health Nursing ¹	4
NURSE 3215 (p. 446)	Nursing Of Women And Childbearing Families ¹	4
NURSE 3216 (p. 446)	Child And Family Health Nursing ¹	4
NURSE 3804 (p. 446)	Ethical And Legal Dimensions Of Nursing Practice	3
NURSE 3807 (p. 446)	Nursing Research - Evidence Based Nursing Practice	3
NURSE 3808 (p. 446)	Management And Leadership In Nursing	2-3
NURSE 3817 (p. 446)	Introduction To Nursing And Health Informatics	3
NURSE 4300 (p. 446)	Community Health Nursing ¹	4
NURSE 4310 (p. 446)	Senior Synthesis ¹	5
Nursing elective (I Spring 2014 gradu	required for 4 year traditional track students thorugh uating cohort)	

Includes a laboratory and/or clinical component

Total Hours

Students are required to furnish their own transportation to and from campus and clinical agencies. Students must have automobile access for all community experiences through the program. Students are required to complete standardized assessment exams throughout the program and at completion as part of the program evaluation.

Traditional BSN Program

The College of Nursing provides coursework leading to the Bachelor of Science in Nursing (BSN) through traditional full-time and part-time studies.

Traditional Full-Time BSN Admission Criteria Pre-Clinical Admission Criteria

Admission to UMSL as a pre-clinical nursing student does not guarantee admission into the clinical track of any of the Pre-Licensure BSN Options (Traditional, Accelerated or Part-Time Evening/Weekend), unless a student is admitted to the Traditional BSN Option under the Freshman Guaranteed Clinical Criteria.

Freshman Guaranteed Clinical Criteria

First-time freshmen and applicants with fewer than 24 transferable college credit hours from a regionally accredited college or university who meet the following minimum criteria may earn a *guaranteed* clinical space in the Traditional BSN Option:

- · Admission to UMSL
- · Minimum ACT score of 22
- Minimum core high school GPA of 2.75¹ (as calculated by UMSL's Office of Admissions)
- 1 Effective Fall 2013, the minimum core high school GPA requirement to earn a guaranteed clinical space will change from 2.75 to 2.9.

In order to keep their guaranteed clinical space, students must maintain the following minimum criteria upon enrollment at UMSL:

- · Full-time enrollment at UMSL
- Minimum cumulative GPA of 2.75 (GPA is calculated on all attempts of all undergraduate courses)
- Minimum science GPA of 2.75 (GPA is calculated on first attempts only of: Chemistry, Anatomy & Physiology I, Anatomy & Physiology II and Microbiology)
- Completion of all general education course requirements (p. 28)
- Grade of C- or higher in all prerequisite courses

Freshman General Admission Criteria

First-time freshmen and applicants with fewer than 24 transferable college credit hours¹ from a regionally accredited college or university who do not qualify for a Guaranteed Clinical Space but do meet the following minimum criteria may still qualify for admission to the nursing major as a pre-clinical student:

- Admission to UMSL
- Minimum ACT score of 21
- Minimum core high school GPA of 2.5 (as calculated by UMSL's Office of Admissions)

Students admitted under the Freshman General Admission Criteria must still apply competitively for a clinical space during their sophomore year (see Clinical Admission Criteria below).

Effective Fall 2013, all first-time freshmen and transfer students with fewer than 24 transferable college credit hours who are admissible to UMSL may declare themselves to the Nursing major. UMSL's admission criteria for first-time college students can be found on the website for the Office of Admissions. (http://www.umsl.edu/ admissions/requirements) These students will still have to apply competitively for admission to the clinical track, unless they meet the requirements to earn a guaranteed clinical space (above).

Transfer Student Admission Criteria

Applicants with 24 or more transferable college credit hours¹ from a regionally accredited college or university who meet the following minimum criteria may qualify for admission to the nursing major as a pre-clinical student:

- · Admission to UMSL
- Minimum cumulative GPA of 2.5 (GPA is calculated on all attempts of all transferable undergraduate courses)
- Once an applicant has earned 24 or more transferable college credit hours from a regionally accredited college or university, we do not take ACT score and/or high school GPA into consideration for admissions purposes.

Clinical Admission Criteria

Clinical spaces are awarded on a competitive and space-available basis for each admission period. Admission to the University of Missouri St. Louis does not guarantee admission into the clinical track of the Traditional BSN Option unless a student meets the Freshman Guaranteed Clinical Criteria (see above).

Applicants must meet the following *minimum* criteria to apply for a clinical space in the Traditional BSN Option:

- · Admission to UMSL
- Minimum cumulative GPA of 2.5 (GPA is calculated on all attempts of all transferable undergraduate courses)
- Minimum science GPA of 2.5 (GPA is calculated on first attempts only of: Chemistry, Anatomy & Physiology I, Anatomy & Physiology II and Microbiology)
- Required science courses (listed above) completed within 10 years prior to enrollment
- Completion of all general education course requirements (http:// www.umsl.edu/divisions/nursing/Academic%20Programs/Bachelors %20Degree/bsnt-prerequisites.html)
- Grade of C- or higher in all prerequisite courses

Traditional Part-Time BSN Admission Criteria Pre-Clinical Admission Criteria

Applicants who plan to complete their general education / prerequisite coursework at UMSL must apply to the university as a pre-clinical nursing student. It is important to note that admission as a pre-clinical nursing student does not guarantee admission into the clinical track of any of the Pre-Licensure BSN Options (Traditional, Accelerated or Part-Time Evening/Weekend), unless a student is admitted to the Traditional BSN Option under the Freshman Guaranteed Clinical Criteria (http://www.umsl.edu/divisions/nursing/Academic%20Programs/Bachelors %20Degree/bsnt-admissioncriteria.html).

Applicants with 24 or more transferable college credit hours¹ from a regionally accredited college or university who meet the following minimum criteria may qualify for admission to the nursing major as a pre-clinical student:

- · Admission to UMSL
- Minimum cumulative GPA of 2.5 (calculated on all attempts of all transferable undergraduate courses)
- Once an applicant has earned 24 or more transferable college credit hours from a regionally accredited college or university, we do not take ACT score and/or high school GPA into consideration for admissions purposes.

Students admitted under the Pre-Clinical Admission Criteria must still apply competitively for a clinical space (see below).

Clinical Admission Criteria

Clinical spaces are awarded on a competitive basis for each admission period. Admission to UMSL does not guarantee admission into the clinical track of the Part-Time BSN Option.

Applicants must meet the following *minimum* criteria to apply for a clinical space in the Part-Time BSN Option:

- · Admission to UMSL
- Minimum cumulative GPA of 2.5 (GPA is calculated on all attempts of all transferable undergraduate courses)
- Minimum science GPA of 2.5 (GPA is calculated on first attempts only of: Chemistry, Anatomy & Physiology I, Anatomy & Physiology II and Microbiology)
- Required science courses (listed above) completed within 10 years prior to enrollment
- Completion of all general education course requirements (http:// www.umsl.edu/divisions/nursing/Academic%20Programs/Bachelors %20Degree/bsnp-prerequisites.html)
- Grade of C- or higher in all prerequisite courses

BSN Traditional Application Procedure To Apply For Nursing Major (Pre-clinical)

First-time freshmen and applicants with fewer than 24 transferable college credit hours, send the following:

- · Completed University application
- · Official high school transcripts or GED score
- · Official ACT or SAT score
- Official college transcripts, if applicable

Applicants with 24 or more transferable college credit hours, send the following:

- · Completed University application
- · Official college transcripts

To Apply For Clinical Major in the 4 Year Traditional BSN Track

To be considered for the clinical major, students must file a separate clinical major application available through the College's website or Office of Student Services and send it directly to the College of Nursing. Students

must complete an application for the Clinical Major during their last semester of enrollment in prerequisite coursework and send the following:

- · Completed University application
- · Completed College of Nursing Clinical Major application
- · Official college transcripts

Application deadlines for the clinical major

To be admitted to the clinical nursing major all material must be submitted to the College of Nursing, Office of Student services by the following dates:

- · Fall admission February 1st
- · Spring admission October 1st

Accelerated BSN Program

In addition to the traditional full-time and part-time options, the College of Nursing offers coursework leading to the Bachelor of Science in nursing (BSN) through an accelerated program. The program is designed for students to complete degree studies in 15 months.

Pre-Clinical Admission Criteria

Applicants who plan to complete their general education/prerequisite coursework at the University of Missouri-St. Louis must apply to the university as pre-clinical nursing students. It is important to note that admission as a pre-clinical nursing student does not guarantee admission into the clinical track of any of the pre-licensure BSN options (Traditional full-time, Traditional part-time, or Accelerated), unless a student is admitted to the traditional BSN option under the Freshman Guaranteed Clinical Criteria (http://www.umsl.edu/divisions/nursing/Academic %20Programs/Bachelors%20Degree/bsnt-admissioncriteria.html).

Applicants with 24 or more transferable college credit hours¹ from a regionally accredited college or university who meet the following minimum criteria may qualify for admission to the nursing major as a pre-clinical student:

- · Admission to UMSL
- Minimum cumulative GPA of 2.5 (calculated on all attempts of all transferable undergraduate courses)
- Once an applicant has earned 24 or more transferable college credit hours from a regionally accredited college or university, we do not take ACT score and/or high school GPA into consideration for admissions purposes.

Students admitted under the pre-clinical admission criteria must still apply competitively for a clinical space (see below).

Clinical Admission Criteria

Clinical spaces are awarded on a competitive basis for each admission period. Admission to the University of Missouri-St. Louis does not guarantee admission into the clinical track of the Accelerated BSN option.

Applicants must meet the following *minimum* criteria to apply for a clinical space in the Accelerated BSN Option:

- · Admission to UMSL
- A Baccalaureate Degree in another field of study from a regionally accredited college or university or completion of at least 62 college credit hours before the start of the program
- Minimum cumulative GPA of 3.0 for applicants with a Baccalaureate Degree or minimum cumulative GPA of 3.2 for applicants without a Baccalaureate Degree (GPA is calculated based on all attempts of all transferable undergraduate courses)
- Completion of all general education course requirements (http:// www.umsl.edu/divisions/nursing/Academic%20Programs/Bachelors %20Degree/bsna-prerequisites.html)
- · Grade of C or higher in all prerequisite courses
- Required science courses (Chemistry, Anatomy & Physiology I, Anatomy & Physiology II and Microbiology) completed within 10 years prior to enrollment

Application deadlines for the Accelerated track

To be admitted to the accelerated track that begins in May of each year only, all materials must be submitted to the College of Nursing, Office of Student Services by the following dates:

- Early acceptance deadline September 15th
- · Regular acceptance deadline February 1st

For specific information regarding the B.S.N. degree program, contact Office of Student Services at (314) 516-6066 or 1-888-NURSEUM or visit the College of Nursing website.

Credit by Transfer and Examination

Credit may be granted for selected general studies. See Admission and Application Procedure section in this Bulletin for credit information.

Pre-Licensure-15 month accelerated option

NURSE 3120 (p. 446)	Foundations of Nursing	7
NURSE 3121 (p. 446)	Clinical Foundations of Nursing ¹	3
NURSE 3820 (p. 446)	Introduction to Evidence-Based Nursing Practice and Informatics	5
NURSE 3804 (p. 446)	Ethical And Legal Dimensions Of Nursing Practice	3
NURSE 3330 (p. 446)	Nursing of Adults I	5
NURSE 3331 (p. 446)	Clinical Nursing of Adults I ¹	3
NURSE 3340 (p. 446)	Behavioral Health Nursing	2.5
NURSE 3341 (p. 446)	Clinical Behavioral Health Nursing ¹	1.5
NURSE 3350 (p. 446)	Nursing of Adults II	5
NURSE 3351 (p. 446)	Clinical Nursing of Adults II ¹	3
NURSE 3360 (p. 446)	Maternal-Child Nursing	5
NURSE 3361 (p. 446)	Clinical Maternal-Child Nursing ¹	3

	NURSE 4520 (p. 446)	Population Focused Nursing	2
	NURSE 4521 (p. 446)	Clinical Population Focused Nursing ¹	2
	NURSE 4530 (p. 446)	Leadership Development and Professional Nursing Practice	4
	NURSE 4531 (p. 446)	Clinical Leadership Development and Professional Nursing ¹	4
	Total Hours		58

Includes a laboratory and/or clinical component

Post Licensure RN to BSN

The RN to BSN curriculum is designed to be completed in six consecutive semesters and takes two years to complete. The innovative program offers flexibility and accessibility in a part-time program. The program allows students to choose to complete their BSN with coursework online, on campus, or at various outreach sites in the St. Louis area.

Admission Criteria

Admission Requirements RN to BSN include:

- · Admission to the University.
- Graduate of either an accredited diploma or associate degree program in nursing.
- Evidence of current licensure as a registered nurse with eligibility for licensure in Missouri.
- Cumulative grade point average of 2.5 (4.0 scale) on a minimum of 30 transferable credit hours (excluding nursing course work)

RN to BSN required nursing courses:

NURSE 3807 (p. 446)	Nursing Research - Evidence Based Nursing Practice	3
NURSE 3808 (p. 446)	Management And Leadership In Nursing	2-3
NURSE 3817 (p. 446)	Introduction To Nursing And Health Informatics	3
NURSE 3900 (p. 446)	Dimensions Of Professional Nursing	3
NURSE 3920 (p. 446)	Health Assessment ¹	3
NURSE 4901 (p. 446)	Family And Community Nursing ¹	5
NURSE 4905 (p. 446)	Values In Professional Nursing ¹	3
NURSE 4911 (p. 446)	Synthesis In Nursing Practice ¹	5
Total Hours		27-28

Includes a laboratory and/or clinical component

RN to BSN students are required to complete a standardized assessment exam during the final part of the program evaluation.

Courses

NURSE 1010 Orientation To Nursing: 0 semester hours

Prerequistes: Admission to four-year baccalaureate program. This mandatory eight-week introduction to the nursing program provides a comprehensive orientation to the program. Students are introduced to the academic and clinical expectations of the curriculum. Concerns critica for academic success (i.e., time management, effective study skills, stress management and dealing with test anxiety) are addressed.

NURSE 2101 Introduction to Nursing: 2 semester hours

This course introduces the historical and theoretical development of nursing as a discipline. Nursing is examined as a dynamic practice profession. Variables that influence nursing and health care are discussed. Concepts and skills introduced in this course guide the student's educational experience within the nursing major.

NURSE 2103 Nutrition And Health: 3 semester hours

This course examines nutritional needs throughout the life span with emphasis on nutritional principles related to health promotion and protection. Content includes assimilation, digestion and absorption of nutrients and cultural and economic influences on dietary practices.

NURSE 2105 Communication In The Nursing Profession: 3 semester hours

Prerequisites: none This course focuses on the development of communication abilities utilized in professional nursing. The individual's relationship with self, others and groups is discussed. Students learn verbal and non-verbal communication skills, self-awareness, and sensitivity to others. Interpersonal skills are introduced to enable the student to develop effective human caring relationships with a diverse population of clients and colleagues.

NURSE 3101 Nursing And Health: 6 semester hours

Prerequisites: BIOL 1131; BIOL 1141; CHEM 1052; NURSE 1010, NURSE 3106; NURSE 3110; NURSE 3111 An introduction to the discipline of nursing, the historical and theoretical development of nursing is explored with an emphasis on critical thinking, the teaching/learning process, and foundational practice concepts. Through modular laboraory experiences, the student acquires psychomotor skills to provide safe and effective nursing care to clients promoting health and wellness. Includes classroom, laboratory and clinical experiences.

NURSE 3106 Assessment Of Clients In Health And Illness: 3-4 semester hours

Prerequisites: BIOL 1131; BIOL 1141; BIOL 1162; CHEM 1052; PSYCH 1268; NURSE 1010. This course integrates theoretical knowledge and interpersonal skills in the assessment of clients, focusing on differentiating normal from abnormal findings. It emphasizes the use of problem solving, critical thinking and cultural competency in identifying multidimensional health variations across the life span. The course includes classroom and laboratory experiences.

NURSE 3110 Pathophysiological Bases Of Nursing Practice: 3 semester hours

Prerequisites: BIOL 1131, BIOL 1141, BIOL 1162, CHEM 1052 (or equivalent); NURSE 1010 This course focuses on the nature of disease, its causes and the bodily changes that accompany it. The course includes a study of general principles of disease, specific diseases of individual organs and systems and the clinical implications.

NURSE 3111 Pharmacotherapeutics In Nursing Practice: 3 semester hours

Prerequisites: BIOL 1141, BIOL 1162, CHEM 1052, NURSE 1010; pre/co requisite: Nursing 3110. This course introduces key terminology, legal foundations, general principles and clinical applications of pharmacology.

NURSE 3120 Foundations of Nursing: 7 semester hours

Prerequisites: All general education requirements and accelerated nursing option prerequisite non-nursing courses. This course introduces the student to the theoretical concepts and foundations of professional nursing practice. Utilizing an integrated approach, health promotion and protection throughout the lifespan are explored and supported using theories of nursing practice, health assessment of well individuals, and general principles and concepts of pharmacology and critical thinking.

NURSE 3121 Clinical Foundations of Nursing: 3 semester hours

Prerequisites: NURSE 3120. This course assists in the development and application of clinical reasoning in the lab, clinical agency, and simulation environments. Through clinical learning experiences, the student acquires basic psychomotor, communication, and medication administration skills. The student applies these skills in the provision of safe and effective nursing care to clients while promoting health, wellness, and clinical reasoning.

NURSE 3205 Adult Health Nursing I: 5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on the nursing care of the adult experiencing selected pathophysiological processes affecting body regulatory mechanisms. These mechanisms are related to immune responses, problems of oxygenation: ventilation, transport and perfusion: kidney function; regulatory mechanisms and digestion absorption and elimination. emphasis is placed on health restoration, maintenance and support as well as the continued development of the nurse-client relationship, critical thinking processes, and research-based nursing practice. This course includes classroom and clinical activities in a variety of settings.

NURSE 3206 Adult Health Nursing II: 5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on the nursing care of the adult experiencing selected pathophysiological processes affecting body regulatory mechanisms. These mechanisms are related to endocrine, sensory-perceptual, gynecological, and genitourinary functions. Emphasis is placed on health restoration, maintenance and support as well as the continued development of the nurse-client relationship, critical thinking processes, and research-based nursing practice. This course includes classroom and clinical activities in a variety of settings.

NURSE 3214 Psychiatric Mental Health Nursing: 4 semester hours

Prerequisites: All 3100-level nursing courses; PSYCH 1268. This course focuses on health and illness across the lifespan of clients who have acute and chronic emotional and psychosocial difficulties and psychiatric illnesses. The course emphasizes development of students' decisional capabilities, self-awareness and professional behaviors as they utilize theory and research from nursing, psychology and related disciplines for the provision of nursing care to individuals, families, & groups. Clinical experiences in community and acute care settings are designed for students to engage in individual and group strategies that promote and maintain mental health. Course includes classroom and clinical activities in a variety of settings.

NURSE 3215 Nursing Of Women And Childbearing Families: 4 semester hours

Prerequisites: All 3100 level nursing courses, PSYCH 1268. Focuses on the childbearing family and women's reproductive health, including family dynamics and growth and development. Health promotion, protection, maintenance and restoration are covered in experiences that include hospital and community settings. Health care policy and systems as relevant to these populations are included. Course includes classroom and clinical activities in a variety of settings.

NURSE 3216 Child And Family Health Nursing: 4 semester hours

Prerequisites: All 3100 level nursing courses, PSYCH 1268. This course focuses on pediatric health and illness with emphasis on family dynamics, growth and development and communication with children and their families. Health promotion, protection, restoration, maintenance and support concepts are covered in experiences that include hospital and community settings. Health care policy and systems are studied as relevant to this population. Course includes classroom and clinical activitiers in a variety of settings.

NURSE 3324 Sociology Of The Family: 3 semester hours

Prerequisite: Sociology 1010 or consent of instructor (Same as Sociology 3224) The study of patterns of close relationships, and how these relationships are inlfuenced by larger social forces. Topics include: love, dating, mate selection, cohabitation, alternative lifestyles, working families, parenting, single mothers, families in crisis, domestic violence, and divorce. Universal and variable aspects of family organization, family role systems, and changes in family social structure.

NURSE 3330 Nursing of Adults I: 5 semester hours

Prerequisites: Nurse 3120, Nurse 3121. This course focuses on the nursing care of the adult experiencing health problems affecting body regulatory mechanisms. These mechanisms are related to perioperative processes, immune processes, problems of oxygenation, cardiovascular alterations, fluid and electrolyte/acid-base imbalances, integumentary problems, abnormalities of the reproductive system and genetics, oncology and hematology problems. This course also incorporates relevant concepts of pharmacology and pathophysiology related to these conditions. Emphasis is placed on health promotion and restoration, maintenance and support as well as the continued development of the nurse-client relationship, clinical reasoning, and evidence-based nursing practice across the adult life span.

NURSE 3331 Clinical Nursing of Adults I: 3 semester hours

Prerequisites: NURSE 3330. This course focuses on the nursing care of adults in the lab, clinical agency, and simulation environments. Utilizing an integrated approach, advanced nursing skills and assessment techniques for adult clients are mastered in perioperative processes, immune processes, problems of oxygenation, hematology, cardiovascular alterations, fluid and electrolyte/acid-base imbalances, integumentary problems, abnormalities of the reproductive system, genetics and oncology problems. Clinical reasoning is developed and applied in order to provide safe and effective nursing care to adult clients across the health/illness continuum.

NURSE 3340 Behavioral Health Nursing: 2.5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on health and illness across the lifespan of clients who have acute and chronic psychosocial and behavioral health issues and specific psychiatric illnesses. An emphasis is placed on the nurse/client relationship in behavioral health promotion, restoration, maintenance and support.

NURSE 3341 Clinical Behavioral Health Nursing: 1.5 semester hour

Prerequisites: NURSE 3340. In this course students utilize theory and evidence from nursing and related disciplines in the provision of nursing care to individuals, families, and groups with psychiatric and behavioral health problems. Clinical experiences in community and acute care settings are designed so that students can engage in individual and group strategies that promote and maintain mental health.

NURSE 3350 Nursing of Adults II: 5 semester hours

Prerequisites: NURSE 3120, NURSE 3121. This course focuses on the nursing care for the adult experiencing complex pathophysiologic processes affecting body regulatory mechanisms. These mechanisms are related to endocrine, neurological, musculoskeletal, gastrointestinal, sensory-perceptual, male reproductive and genitourinary problems. This course also incorporates relevant concepts of pathophysiology and pharmacology related to these conditions. Emphasis is placed on health promotion and restoration, maintenance and support, as well as the continued development of the nurse-client relationship, critical thinking and evidence-based nursing practice across the adult life span.

NURSE 3351 Clinical Nursing of Adults II: 3 semester hours

Prerequisites: NURSE 3350. This course focuses on the nursing care of adults in the lab, clinical agency and simulation environments. Utilizing an integrated approach, complex psychomotor skills and assessment techniques for adult clients are mastered in patients with musculoskeletal problems, endocrine alterations, renal/genitourinary problems, sensory-perceptual problems, and liver problems. Clinical reasoning is developed and applied in order to provide safe and effective nursing care to adult clients with complex problems across the health/illness continuum.

NURSE 3360 Maternal-Child Nursing: 5 semester hours

Prerequisites: PSYCH 1268, NURSE 3120, NURSE 3121. This course focuses on women's reproductive health, childbearing and child rearing families, as well as the health and illness of children from conception through adolescence. There is an emphasis on family dynamics, growth and development, and communication with children and their families. Health care policy and systems are incorporated as they relate to diverse populations.

NURSE 3361 Clinical Maternal-Child Nursing: 3 semester hours

Prerequisites: NURSE 3360. Health promotion, protection, restoration, and maintenance for the mother-child and family care are addressed in experiences that include nursing skills lab, hospital agency and a variety of community settings.

NURSE 3799 Quantitive Analysis In The Health Sciences: 3 semester hours

Prerequisites: MATH 1030 or equivalent. This course focuses on concepts and applications of statistics in the health sciences. Topics include descriptive and inferential statistics, probability distributions of random variables, sampling and estimation. The course uses examples and content from health sciences to provide the basic concept structure for quantitative analysis.

NURSE 3804 Ethical And Legal Dimensions Of Nursing Practice: 3 semester hours

Prerequisites: Philosophy (3 credits). This course explores the ethical and legal dimensions of nursing practice. The relationship between ethical and legal issues is examined within nursing situations. the student participates in dialogue addressing ethical-legal issues in professional nursing practice to explore personal values, increase sensitivity to others and to develope ethical reasoning abilities.

NURSE 3807 Nursing Research - Evidence Based Nursing Practice: 3 semester hours

Prerequisite: NURSE 3799 (or equivalent). This course prepares nurses to provide evidence based care to patients among the rapid advances in the science and technology of healthcare. This course provides a basic understanding of how evidence is developed, including the research process, clinical judgment, interprofessional perspectives, and patient preference as applied to nursing practice. Students will learn a systematic method to evaluate and apply research findings and other evidence in designing and implementing nursing care that is multidimensional, high quality, and cost-effective.

NURSE 3808 Management And Leadership In Nursing: 2-3 semester hours

Prerequisites: All 3000 level nursing courses; Economics 1000 or equivalent) This course prepares the nurse to coordinate and manage client care in diverse health care settings. Emphasis is placed on leadership and management theory and related skills, collaboration, delegation, coordination, and evaluation of multi-disciplinary work and the application of outcome-based nursing practice.

NURSE 3817 Introduction To Nursing And Health Informatics: 3 semester hours

This online laboratory course establishes competency in fundamental information management and computer technology skills. It enables students to use existing information systems and available information to manage nursing practice. Students critically evaluate technology, information, and its sources; use decision support systems designed for clinical decision making; and focus on the representation of nursing data, information, and knowledge.

NURSE 3820 Introduction to Evidence-Based Nursing Practice and Informatics: 5 semester hours

Prerequisites: NURSE 3799 or equivalent statistics course. This course will focus on current review of qualitative and quantitative nursing literature and research utilization through evidence-based practice and establish competency in fundamental information management and technology. Students will examine the research and evidence-based process through analysis and critique of nursing literature; critically evaluate technology, information, and its sources; use decision support systems designed for clinical and ethical decision making; and focus on the presentation of nursing data, information, and knowledge.

NURSE 3873 Guided Study In Nursing: 1-3 semester hours

This course is an in-depth independent study of selected topics in nursing under the guidance of a specific instructor. No more than six hours may be taken under this option.

NURSE 3900 Dimensions Of Professional Nursing: 3 semester hours

Prerequisites: Admission to the College as RN This course investigates the roles and responsibilities of the professional nurse within a rapidly changing health care delivery system. Key issues are explored with emphasis on health promotion and health. Graduates of diploma nursing programs will be awarded college credit for successful validation of basic nursing knowledge as part of this course.

NURSE 3920 Health Assessment: 3 semester hours

Prerequisites: NURSE 3900 and NURSE 3817 (may be taken concurrently) or consent of instructor This laboratory course focuses on the knowledge, communication abilities, and technical skills necessary for comprehensive assessment of individuals of all ages.

NURSE 4300 Community Health Nursing: 4 semester hours

Prerequisites: All 3000 level nursing courses This course provides a conceptual foundation for nursing that recognizes the community as client in society. The course examines socioeconomic, environmental, epidemiological, and legislative influences, ethical/legal issues, and the impact of health beliefs and practices on health promotion and protection in communities and society. The student applies various theories and concepts when encountering families, groups and communities with diverse value systems and cultural backgrounds. Course includes classroom and clinical activities in a variety of settings.

NURSE 4310 Senior Synthesis: 5 semester hours

Prerequisites: All 3000 level nursing courses; NURSE 4300 and NURSE 3808 may be taken concurrently. This course integrates theory and practice from previous nursing and general education courses with the goal of preparing the student for entry into professional nursing practice. Within a seminar context, students explore a variety of clinical and professional nursing topics. The course includes research-based strategies utilized for health promotion and protection, health restoration, maintenance and support. Areas of study are selected from accross the lifespan, including diverse populations in a variety of health care systems. Course includes classroom and clinical experiences in a variety of settings. Not for graduate credit.

NURSE 4520 Population Focused Nursing: 2 semester hours

Prerequisites: All 3300 level nursing courses, NURSE 3804, NURSE 3820. This course provides a conceptual foundation for nursing that recognizes populations in society. The course examines the effect of socioeconomic and environmental, epidemiological factors, and the impact of health beliefs and practices on health promotion and protection in populations. This course also focuses on epidemiological factors and legislative influences in diverse populations.

NURSE 4521 Clinical Population Focused Nursing: 2 semester hours

Prerequisites: NURSE 4520. This clinical course focuses on the nursing care of populations in various settings. The student applies population-based theories and concepts when encountering individuals, families, groups and populations with diverse value systems and cultural backgrounds.

NURSE 4530 Leadership Development and Professional Nursing Practice: 4 semester hours

Prerequisites: All 3300 level nursing courses, NURSE 3804, NURSE 3820. This course integrates theory and practice from previous nursing and general education courses with the goal of preparing the student for entry into professional nursing practice. Areas of study are selected from across the lifespan, including diverse populations in a variety of health care systems. Topics will include leadership, management theory and related skills, collaboration, delegation, coordination, and evaluation of outcome based interdisciplinary nursing practice.

NURSE 4531 Clinical Leadership Development and Professional Nursing Practice: 4 semester hours

Prerequisites: NURSE 4530. This clinical course includes a variety of experiences to prepare the student nurse to lead, coordinate, and manage client care in diverse health care settings. This course includes research-based strategies utilized for health promotion and protection, health restoration, maintenance, and support. Areas of study are selected from across the lifespan, including diverse populations in a variety of health care systems.

NURSE 4720 Perioperative Nursing: 3 semester hours

PREREQUISITES: Consent of the instructor. Provides experiences in preoperative, intraoperative, and postoperative settings. Includes a clinical component.

NURSE 4722 Transcultural Nursing: 3 semester hours

Prerequisite: Consent of the Instructor. Examines transcultural nursing concepts, theories and practices in relationship to human caring. Focuses on application and analysis of health care and scope of practice within selected cultural contexts. Includes practicum experiences.

NURSE 4723 Nurse Externship: 3 semester hours

Prerequisite: Senior level status; GPA 3.0 (4.0 scale) This course provides the opportunity to apply theoretical and conceptual knowledge and skills in a structured clinical environment under the guidance of a mentor.

NURSE 4724 Emergency/Trauma Nursing: 3 semester hours

Prerequisites: NURSE 3205 and NURSE 3206 or consent of instructor. This course provides a framework for the roles and responsibilities of the professional registered nurse in Emergency and Trauma nursing care.

NURSE 4726 Parish Nursing: 3 semester hours

Prerequisites: All 2000 level nursing coursed\s, NURSE 3205 and NURSE 3214. This course provides a conceptual foundation that recognizes a speciality of nursing practice that combines professional nursing and health ministry. It examines four major concepts: professionalism; health and wholeness; spirituality; and community as it relates to culture and diversity. The course includes classroom discussion, individual reflection and community based learning experiences.

NURSE 4730 Nursing Care At The End Of Life: 3 semester hours
Prerequisites for Nursing Students NURSE 3205 and NURSE 3214. All
others by consent of instructor. This course focuses on the nursing care
of terminally ill patients and their families. Topics explored will include the
impact of personal values and beliefs about death, physiology of end stage
disease processes, symptom assessment and management, psychosocial
and spirtual support, consideration in special patient populations, societal
issues and trends in end of life care, ethical considerations in caring for the
dying patient, grief and bereavement processes, and the role nursing in
end of life care across settings.

NURSE 4741 Advanced Nrsg Assmt & Mgt Of Clients W/Cardiac Dysrhythmias: 3 semester hours

PREREQUISITES: Senior status Focuses on advanced nursing assessment and management of clients with cardiac rhythm problems and conduction disturbances. Includes a clinical component.

NURSE 4742 Critical Care Nursing Of The Adult: 3 semester hoursPrerequisites: RN or completion of NURSE 3205 and NURSE 3206 (or equivalent). Focuses on health restoration, health maintenance, and health support of individuals with dysfunctions or trauma to major organ systems. Emphasis is on understanding pathophysiology and psychosocial processes related to nursing and collaborative interventions, and the development of a functional framework for data organization and analysis.

NURSE 4901 Family And Community Nursing: 5 semester hoursPrerequisites: NURSE 3900, NURSE 3817 and NURSE 3920 This
practicum course introduces the concepts, principles, skills, and
professional nursing roles essential to practice community-based
professional nursing with families and groups.

NURSE 4905 Values In Professional Nursing: 3 semester hours

Prerequisites: All 3000 level RN/BSN nursing courses or consent of instructor Explores values and beliefs as they shape professional nursing practice and influence clinical decision making and interventions in the evolving health care system. Attention is given to the impact of sociocultural factors and health/illness beliefs and practices of the diverse populations served by the professional nurse. Students examine their own understanding of the moral nature of professional nursing within the context of a diverse society.

NURSE 4911 Synthesis In Nursing Practice: 5 semester hours

Prerequisites: NURSE 4901. This practicum course focuses on community-based application and synthesis of professional nursing roles and responsibilities with selected populations determined to be at risk for a variety of health related problems. The course includes assessment of cognitive and affective growth achieved while in the BSN Completion Program.

NURSE 6000 Statistics in Nursing & Health Sciences: 3 semester hours

Prerequisites: Admission to graduate study in nursing or consent of instructor. Provides students with a graduate level understanding of quantitative methods and their relationship to research in nursing and health sciences. Students will conduct lab data analysis based on the topics covered in the class and learn how to generate specific research questions and conduct basic statistical analysis.

NURSE 6104 Values And Cultural Diversity In Advanced Nursing Practice: 3 semester hours

Prerequisites: Admission to MSN Program. This course explores the diversity of cultural influences and the moral/ethical influences on advanced nursing practice. The values and cultural beliefs of the individual student and the underlying values of the health care system are analyzed for their impact on communities and health care. Health/illness beliefs and practices of individuals, families and communities are explored as well as folk health care and complementary medicine. This course includes: values clarification, ethical analysis, cultural diversity, and culturally competent care.

NURSE 6106 Policy, Organization And Financing In Health Care: 3 semester hours

Prerequisites:Admission to MSN program. This course presents an overview of health care policy, organization, and financing with emphasis on current health care trends. The focus is on the design and implementation of health care delivery systems with the goal of providing safe, quality, and informatics driven cost-effective care. Emphasis is placed on the development of a leadership role in managing human, financial, and physical health care resources. The format includes pertinent information concerning primary health care and public health issues, the relationship between these issues, and improving health care delivery and outcomes.

NURSE 6111 Theoretical Foundations of Research and Practice: 3 semester hours

Prerequisites: Admission to the Master's program in the college of Nursing. This course provides an overview of selected theories and frameworks that can be used to guide advanced practice nurses in facilitating their learning and use of evidence-based practice. It is centered on the explication of major theories that will be used in practice. Nursing middle-range and practice theories, theories related to cultural aspects of care, population-based theories, change theories, and informatics theories such as bioinformatics and genetics will form the foundation for advanced practice.

NURSE 6112 Nursing Research Methods: 3 semester hours

Prerequisites: NURSE 3799 or equivalent; NURSE 6111 may be taken concurrently This course is designed to provide the student with the skills required to be a consumer of nursing research. These include the fundamentals of scientific inquiry in nursing as well as the information necessary to understand and evaluate nursing research. Principles and techniques common to scientific investigation are applied to nursing. Researchable problems are developed.

NURSE 6114 Evidence-Based Nursing: 3 semester hours

Prerequisite: NURSE 6112 This course prepares nurses to review existing nursing research about a nursing practice problem and to propose appropriate changes in current nursing practice. The theoretical basis for evidence-based nursing with respect to screening, diagnosis, selection of treatment alternatives, and prognosis are examined. Research designs such as case control and cohort studies are included. Practical application of change in nursing is examined, including formative and summative aspects of evaluation. Opportunities are provided to develop a plan to implement evidence-based change in an area of nursing practice.

NURSE 6120 Population-Based Foundations of Health: 3 semester hours

Prerequisite: Admission to MSN. The purpose of this course is to provide students with an advanced nursing practice perspective on providing population-based nursing care. This course includes an evaluation of human and cultural diversity in the health-illness continuum. Core concepts include ethics; theories of health and health promotion, protection, restoration, and maintenance; and the support needed for a peaceful death. Coursework will focus on community/population-based data on epidemiology, disease and injury prevention, health education, growth and development, and family systems.

NURSE 6130 Research for Evidence-Based Practice: 3 semester hours

Prerequisites: Admission to MSN. This course provides students with skills required to systematically explore and evaluate current nursing knowledge for scientific and clinical merit to promote evidence-based nursing practice. Students select a researchable problem, review and critique relevant literature, consider ethical and cultural issues, examine methodological procedures associated with scientific investigation, and explore potential barriers to evidence-based practice. Students critically analyze differing research paradigms and current issues surrounding research and evidence-based practice.

NURSE 6140 Health Promotion Across The Life-Span: 3 semester hours

Prerequisites: NURSE 6111. This course is designed to provide students with an advanced-knowledge base, related to the concepts of health promotion and health protection across the lifespan. Emphasis is placed on the application of various developmental theories for infant, child, adult, older adult and family which will provide the basis to individualized healthcare needs for various ages and family groups. This course includes: theories of health promotion and protection, epidemiology, disease and injury prevention, health education, cultural competencies, growth and development, nutrition, and family systems theory. Emphasis is placed on theory and research relevant to health promotion and the family as the unit of service.

NURSE 6144 Health Promotion and Cultural Diversity: 3 semester hours

Prerequisites: Admission to the MSN Program. This course provides graduate nursing students with knowledge related to the concepts of health promotion, health protection, cultural diversity, and moral/ethical influences across the lifespan. core concepts for the course include theories of health and health promotion and protection, epidemiology, disease an injury prevention, health education, cultural diversity, growth and development, nutrition and family systems. The students will explore values clarification and ethical analysis.

NURSE 6220 Measurements Of Nursing Phenomenon: 3 semester hours

Prerequisite: NURSE 6111. The theoretical basis of measurement is presented in a foundation for the development and evaluation of measurement instruments and procedure for use in nursing research. Content is presented regarding measurement theories, techniques of construction, statistical analysis of reliability and validity and strengths and limitations of selected measures of nursing research.

NURSE 6309 Role Of The Nurse Educator: 3 semester hours

Prerequisites: Admission to the MSN program or consent of instructor. This course will explore the roles, responsibilities, and functions of the nurse educator. Emphasis will be placed on the development and evaluation of the interactive nature of teaching and learning in a variety of settings.

NURSE 6320 Learning And Curriculum Development In Nursing: 3 semester hours

Prerequisites: NURSE 6309. This course examines theoretical foundations, principles, and issues in curriculum design. Explores systematic evaluation of curriculum at all levels.

NURSE 6321 Instructional Strategies In Nursing: 3 semester hours

Prerequisites: NURSE 6309 or consent of Instructor; must be taken concurrently with NURSE 6320. This course focuses on the development and analysis of teaching and learning strategies in nursing education. Adult learning principles of teaching and learning will be incorporated into the innovative strategies developed within this course. Integration of new technology in instructional design and delivery will be highlighted. Evaluation methods of both teacher and learner will be explored.

NURSE 6322 Evaluation Strategies in Nursing: 3 semester hours

Prerequisites: NURSE 6309. This course provides students the opportunity to learn evaluation concepts, including testing and measurement in nursing education at the didactic, clinical and programmatic levels. Content includes strategies to assess and evaluate learning in the cognitive, psychomotor and affective domains. Quality improvements, as well as legal and ethical considerations are explored. Key concepts include criterion and norm referenced theory and technique; reliability, validity, and the associated descriptive statistics; preparation of instrumental objectives for use in developing classroom tests and clinical nursing performance evaluations.

NURSE 6409 Role Of The Nurse Leader: 3 semester hours

Prerequisites: Admission to the Master's Program in the College of Nursing or consent of the instructor. Analysis of the roles and responsibilities of the nurse executive in a complex healthcare system. This course explores the roles and challenges of the clinical nurse leader. Emphasis will be placed on the responsibilities of the clinical nurse and clinical nurse leader in a complex healthcare system.

NURSE 6425 Managed Care Services: 3 semester hours

Prerequisites: Admission to the MSN or consent of instructor Provides an analysis of the health care environment in managed care and its impact on the nurse's role.

NURSE 6426 Health Resources Management: 3 semester hours

Prerequisite: NURSE 6409. This course focuses on the roles and responsibilities of the nurse leader for fiscal and human resource management in both public and private sectors. Includes analysis of the environment, healthcare organization within the system and impact of resource management on nursing and health care.

NURSE 6428 Theory And Practice In Nursing Leadership: 3 semester hours

Prerequisite: NURSE 6409. This course focuses on theories and practices of advanced nursing leadership and management practice within complex healthcare systems. This course will also compare to global healthcare systems. Particular focus will be on the applicaton/effectiveness assessments of the practices within healthcare organizations. Patient safety and quality management theory practices in healthcare will be discussed in depth and compared to other industries' safety and quality management programs theory/practices.

NURSE 6509 Role Of The Clinical Nurse Specialist/Nurse Practitioner: 2 semester hours

Prerequisites: Admission to the Master's Program in the College of Nursing or consent of instructor. This course will focus on issues affecting the emerging roles of the nurse practitioner and clinical nurse specialist. It is designed to facilitate the role development of nurses who desire to function as primary care providers and/or as specialists within a specific clinical area of advanced nursing practice. Emphasis include sub-roles of advanced practice (leader, consultant, expert, researcher, educator), legal and professional issues, change theories, and standards of practice.

NURSE 6517 Physiology/Pathophysiology Of The Neonate: 3 semester hours

Prerequisites: Admission to the MSN Neonatal subspecialty track or consent of instructor Corequisite: 404N Concepts of embryology, neonatal physiology and pathophysiology are used to provide an in-depth study of normal functioning and alteration of normal physiological functioning in cells, tissues, organs, and organ systems. Alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on neonates. Both generalized processes and major system dysfunctions are addressed.

NURSE 6518 Pathophysiology For Advanced Nursing Practice: 3 semester hours

This course focuses on implications for advanced nursing practice through examination of selected pathophysiological phenomena which occur frequently in the diverse populations to whom advanced nurses provide care.

NURSE 6519 Advanced Pediatric Pathophysiology: 3 semester hours

This course focuses on embryology of the major organ systems, as well as specific physiologic and pathophysiologic processes relevant to the child from birth through age 18. Implications for advanced nursing practice which result from alterations of normal physiologic functioning in cellular, tissue, and organ systems are examined. Emphasis is placed on the relationship between pathophysiology, decision making and standards of advanced nursing practice.

NURSE 6520 Pharmacology For Advanced Nursing Practice: 3 semester hours

Prerequisites: NURSE 6518 or equivalent or consent of instructor. This is a course in clinical pharmacotherapeutics that builds on prior knowledge of drug classifications, actions, interactions, and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health-care management by advanced practice nurses. Emphasis is placed on clinical critical thinking process used to prescribe drugs in the management of specific illnesses. The Missouri laws for advanced practice nurse prescriptive authority will be addressed. Emphases include pharmacodynamics, pharmacokinetics, pharmacotherapeutics, health-related information, medication compliance, and issues that pertain to the prescribing of medications in advanced nursing practice.

NURSE 6524 Health Assessment For Advanced Nursing Practice: 3 semester hours

Prerequisite: NURSE 6518 (may be taken concurrently). This course is designed to provide a systematic approach to the advanced physical assessment as well as psychological, sociocultural, developmental and spiritual assessment of individuals across the lifespan. This course builds upon basic health assessment knowledge and skills, laboratory work interpretation, validation, documentation, and analysis of assessment findings. Two hours of theory and 1 hour of clinical lab per week are required.

NURSE 6525 Advanced Health Assessment Of The Neonate: 3 semester hours

Prerequisites: Admission to the MSN Neonatal option or consent of instructor; Nursing 418N may be taken concurrently. A developmental and systematic approach to the advanced assessment of physiological, psychological, sociocultural & developmental aspects of the fetus, mother in the prenatal period, and the neonate is discussed. This approach builds on basic assessment skills and emphasizes perinatal, genetic, and embryologic factors impacting neonatal development. Ways to assess the pregnant woman for problems, the use of special diagnostic tests, and the assessment of the neonate also are explored. Forty hours of laboratory/ clinical activities during the semester, which provide opportunities to implement various assessment and diagnostic procedures, complete appropriate health histories, perform complete physical examinations, and complete a perinatal history are required.

NURSE 6526 Advanced Health Assessment For Pediatric Nursing Practice: 3 semester hours

Co-requisite: Nursing 6519 or permission of the instructor. Comprehensive assessment of children through adolescence, including those with significant health and/or developmental deviations, using advanced diagnostic reasoning process. Emphasis on health history, cultural diversity, differentiation, interpretation, and documentation of findings.

NURSE 6529 Advanced Pharmacology For Pediatric Nursing Practice: 3 semester hours

Prerequisites: Admission to Master of Science in Nursing or permission of the instructor. This course is a clinical pharmacotherapeutics that builds on prior knowledge of drug classifications, actions, interactions, and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health care management of children from birth to young adulthood by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the management of specific illness. The Missouri Laws for advanced practice nurse prescriptive authority will be addressed. Core concepts include pharmacodynamics, pharmacokinetics, health related information, medication compliance and issues that pertain to the prescribing of medication in advanced nursing practice.

NURSE 6530 Clinical diagnostics for Advanced Nursing Practice: 2 semester hours

Prerequisites: NURSE 6518 or NURSE 6519. This course provides an introduction to the interpretation and appropriate use of diagnostic measures for advanced practice nurses in primary care settings. Special attention is paid to laboratory, radiographic and diagnostic testing. In addition, clinical opportunities will be provided to gain clinical interventional skills for advanced practice nursing.

NURSE 6739 Diagnosis and Management of the Adult-Geriatric Patient I: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130, NURSE 6518. Clinical course is designed to provide a theoretical and practical base for advanced practice nursing students to diagnose and manage health problems through the life span from young adulthood through old age. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to clinically apply the concepts and theories discussed in class in the advanced nursing care of adults who are experiencing problems related to the upper and lower respiratory system, cardiovascular system, gastrointestinal system, skin, and infectious diseases. Clinical experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems.

NURSE 6740 Diagnosis & Mgmt of the Adult-Geriatric Patient II: 5 semester hours

Prerequisite: NURSE 6739. Clinical course is designed to provice a theoretical and practical base for advanced practice nursing students to diagnose and manage health problems through the life span from young adulthood through old age. Emphasis is placed on clinical assessment and decision-making in the provision of direct patient care within a defined scope of practice. The student is expected to clinically apply the concepts and theories discussed in class in the advanced nursing care of adults experiencing problems related to the musculoskeletal, neurological, endocrine/metabolic, genitourinary, reproductive systems, the eye, and mental health. Clinical experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems.

NURSE 6741 Family Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130, NURSE 6518, NURSE 6520, NURSE 6524. NURSE 6509 and NURSE 6530 may be taken concurrently. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of individuals and families across the life span. The focus is children, women and adults. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6742 Family Health II: Diagnosis & Management In Adv Nursing Practice: 5 semester hours

Prerequisites: NURSE 6741 This clinical course is designed to provide students with the opportunity to gain the concepts and skills essential to advanced practice nursing care of families experiencing acute and chronic health problems, with particular focus on adult clients. Emphasis is given to those health problems most commonly encountered by the Family Nurse Practitioner. A research-based and theory-based approach to nursing interventions is used. Emphases include family adaptation to acute and chronic conditions, health promotion, clinical decision-making, and ethical decision-making. 4 didactic hours and 1 clinical hour per week are required.

NURSE 6743 Child Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130; NURSE 6518 or NURSE 6519; NURSE 6520 or NURSE 6529; NURSE 6526. NURSE 6509 and NURSE 6530 may be taken concurrently or instructor consent. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of pediatric individuals and their families. The focus is the life span of the infant through adolescence. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6744 Child Health II: Diagnosis & Mgmt In Advanced Nursing Practice: 5 semester hours

Prerequisites: NURSE 6743. This course is designed to provide students with the opportunity to apply skills from advanced physical assessment, pathophysiology pharmacology, and theory to advanced nursing care of the child and the family. Emphasis is placed on using models and theories that guide advanced practice and planning evidence-based care. The focus is on assessing, diagnosing and planning care for clients with common pediatric problems. The implications of the developmental stage of the child and family, level of developmental skill and developmental problems for the maintenance of health, and the management of illness by the advanced practice nurse are discussed. Documentation includes pertinent history, physical examination, laboratory findings and differential diagnosis relevant to the individual client. Focus is on developing a plan of care that encompasses the various treatment modalities used in managing common pediatric health problems including specific pharmaceutical and symptomatic treatment. Clinical practice opportunities are arranged in collaboration with the instructor and planned in a variety of pediatric settings. Four hours of didactic and 1 hour of clinical per week are required.

NURSE 6746 Women's Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6518. May be taken concurrently with NURSE 6309 and NURSE 6350. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of women. The focus is on reproductive health and the lifespan life of women throughout the childbearing continuum, including grief and loss. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6747 Women's Health II: Diagnosis & Mgmt In Advanced Nursing Practice: 5 semester hours

Prerequisites: NURSE 6746 Clinical course designed to provide students with the opportunity to apply knowledge and skills to advanced practice nursing care of women and families throughout the lifespan. Emphasis is placed on using models and theories that guide advanced practice and research-based care. Focus is on educating the advanced practice nurse to collaborate with women and their families to promote health and prevent disease. Within this context, focus is on assessing, diagnosing and planning care for well women, as well as women experiencing common women's health problems within a health promotion framework. The format includes pertinent history, physical examination, laboratory findings, and differential diagnoses relevant to the individual client. Core concepts include adaptation of women through developmental stages, health risk assessment, health promotion, disease prevention, health education, primary care of well women, ethical decision-making, and grief and loss. Focus is on the development of a plan of care that encompasses the various treatment modalities used in managing common women's health problems including specific pharmacological and non-pharmacological therapies.

NURSE 6748 Neonatal Nursing I: 3 semester hours

Prerequisites: Nursing 6525, 6528, 6517, or consent of instructor; Nursing 6749 may be taken concurrently. The first of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determing appropriate care of the ill neonate. Current research and evidenced-based practices are used as the course framework. The effects of critical conditions on the growth and development of the neonate, including subsequent chronic health prolems as well as the short and long term consequences to the child's family are emphasized. Disorders of the central nervous, pulmonary, and and cardiovascular systems will be discussed. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory/clinical settings during forty hours of required clinical activities.

NURSE 6749 Neonatal Nursing II: 3 semester hours

Prerequisites: NURSE 6525, NURSE 6528, NURSE 6517 or consent of instructor; NURSE 6748 may be taken concurrently The second of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determining appropriate care of the ill neonate. Current research and evidence-based practices are used as the framework. The effects of critical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as short and long term consequences to the child's family are emphasized. Disorders of the gastrointestinal, renal, endocrine, hemotologic, musculoskeletal, opthalmologic, dermatologic and immune systems will be discussed. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory/clinical settings during forty hours of required clinical activities.

NURSE 6870 Special Topics In Advanced Practice Nursing: 1-3 semester hours

Prerequisites: Consent of instructor Explore special topics for the advanced practice nurse in the areas of research, theory, education and administration. No more than three hours shall be applied toward the degree. This course is for graduate MSN or PhD levels.

NURSE 6875 Special Study In Graduate Nursing: 1-3 semester hoursPrerequisites: Admission to MSN prog or consent of instructor In-depth studh of selected topics in nursing under the guidance of a specific instructor. No more than three hours may be applied to the master's

program of study.

Prerequisites: Nurse 6739 or 6743 or 6746. Advanced nursing practice examines different nursing an dinterdisciplinary models of case management of acute and chronic problems across the lifespan. The intensive clinical experience focuses on the student's specialty care area: adults, pediatric or women's health.

NURSE 6950 Advanced Nursing Practice: 4 semester hours

NURSE 6951 Advanced Intensive Clinical for the Nurse Educator: 2 semester hours

Prerequisites: Nurse 6520, Nurse 6524, Nurse 6309. This course provides a concentrated opportunity to function in an advanced nursing role as a nurse educator incorporating an intensive clinical experience focusing on the student's chosen population.

NURSE 6952 Synthesis Practicum: 3 semester hours

Prerequisites: All required courses in the Nurse Educator or Nursing Leadership of Health Systems option or consent of instructor. This clinical course is a concentrated opportunity to function in an advanced nursing role as a nurse administrator, integrating clinical and functional role activities within a chosen setting. Emphasis includes educator or administrator nursing practice, functional role responsibilities, and activities with emphasis on their relationship to client outcomes.

NURSE 6954 Advanced Practice Nursing: Internship 1: 4 semester hours

Prerequisites: All required graduate Nursing courses. This clinical course provides opportunity for the initiation of the nurse practitioner role with selected populations. Students participate in precepted experiences with certified nurse specialists, practitioners and/or primary care physicians for a minimum of 250 hours. Students will participate in clinical seminars. May be taken concurrently with other required courses.

NURSE 6955 Advanced Practice Nursing: Internship 2: 4 semester hours

Prerequisites: NURSE 6954. Continuation of precepted clinical experiences with a selected populations initiated in NURSE 6954. Students satisfy a minimum of 250 precepted hours with clinical nurse specialists, certified nurse practitioners, and/or primary care physicians and participate in frequent clinical seminars.

NURSE 7200 Nursing Science: 3 semester hours

Prerequisites: Admission to a doctoral study in nursing. This course examines the state of scientific knowledge in nursing research and practice. Gaps in the nursing research and practice are identified. Interrelationships between nursing science and scientific developments in other disciplines from the perspectives of health outcomes, population health indices, and policy implications of scientific progress are analyzed. Advanced in biophysiological, psychosocial, sociocultural, health systems, and health economics research and the implications for translation to improve nursing science and practice are analyzed.

NURSE 7211 Biostatistics I: 3 semester hours

Prerequisites: Admission to PhD program. This course provides a comprehensive understanding of the use of biostatics in conducting research. Data description, logic of sampling and test statistics, hypothesis testing, type 1 and type 2 errors are included. Test statistics include oneway ANOVA, (analysis of variance); post-hoc tests and trend analysis; factorial ANOVA; repeated measures designs and mixed randomized repeated designs; multiple comparison techniques; and simple and multiple regression.

NURSE 7212 Biostatistics II: 3 semester hours

Prerequisites: Admission to PhD program This course builds on statistical procedures and advances the student's understanding of advanced statistical methods including design and measurement.

NURSE 7220 Leadership in Practice: 3 semester hours

This course provides students with the opportunity to develop and refine critical leadership skills. Emphasis is on using models and theories that facilitate inter-professional collaboration to achieve optimal health outcomes. The focus is effective communication and leadership methods necessary to establish successful inter-professional teams. Students will enhance skills in verbal, written and electronic communication; team leadership; and creating and sustaining health related initiatives. Through advanced understanding of the inter-professional dimension of health care, students will facilitate collaboration and remove barriers to providing safe, timely, effective, efficient, equitable and patient centered care in a complex environment.

NURSE 7230 Epidemiology: 3 semester hours

Prerequisite: NURSE 6000 or equivalent within 5 years. This course introduces the fundamental principles and methods of epidemiology. Topics to be covered include the historical perspective of epidemiology, measures of disease occurrence and of association, clinical epidemiology, disease screening, causal inference, and analytic study design. Students will design epidemiologic studies, and utilize common statistical tests. Emphasis will be placed on case control studies, cohort studies, clinical epidemiology, and infectious disease epidemiology.

NURSE 7240 Health Informatics: 3 semester hours

Prerequisites: Consent of the Instructor. This course explores information systems and computer technologies that can improve the health of individuals, families, communities and populations by optimizing information management and communication. Focus areas include the electronic medical record, technologies to improve patient safety, standards for privacy and security, tele-health systems to improve healthcare access to underserved populations, use of web-enhanced technologies for research translation, and strategies to provide data for decision making and evident based databases. Emphasis is placed on developing competence in technology use for the purpose of program evaluation, establishing healthcare quality, and improving healthcare delivery to diverse populations in complex healthcare settings.

NURSE 7250 Frameworks for Health Care Delivery and Policy: 3 semester hours

Prerequisites: None. This course is designed to provide students with a framework to understand the system through which health care is delivered and financed. The cultural and psychosocial contributors to health care are discussed. The focus is to provide students with knowledge about complex health care systems, government and private reimbursement structures, quality and patient safety initiatives, legal mandates and policy issues affecting health care delivery.

NURSE 7260 Program and Practice Evaluation: 3 semester hoursPrerequisite: None. Includes principles and procedures for assessing the quality and effectiveness of programs, projects and materials related to planned interventions and systems changes in health settings. Using a logic model, practice and programs will be evaluated and presented to agencies. Values, ethical issues and political issues, particularly those relevant to race/ethnicity and gender will be emphasized.

NURSE 7270 Policy Application for Improved Health Outcomes: 3 semester hours

Prerequisites: NURSE 6106 or equivalent and NURSE 7230. Students learn how to effectively translate and disseminate knowledge from nursing and other health sciences to policy makers and stakeholders in order to form collaborations to affect change at various levels of the policy process. Topics to be covered include policy analysis, policy development, collaboration and negotiation specific to the policy process, building social and political capitol and garnering resources to assure effective policy implementation. Students will utilize population health data, policy analysis, and policy development skills to define, shape and implement culturally competent health policy.

NURSE 7291 DNP Clinical Scholarship I: 3 semester hours

Prerequisites: All DNP coursework or Consent of Instructor. This experience provides additional opportunities for practice expertise development to create change in a targeted population and complex healthcare environments. Students will develop skills to assess and diagnose healthcare systems and identify evidenced-based strategies to improve health outcomes. Included in this experience is 150 hours of immersion in their population focused scholarly project.

NURSE 7292 DNP Clinical Scholarship 2: 3 semester hours

Prerequisites: NURSE 7291. This experience provides additional opportunities to develop clinical preventative strategies to create change in a targeted population and complex healthcare environments. Students will implement evidenced-based projects to improve health outcomes. Included in this experience is 200 hours of immersion in their population focused scholarly project.

NURSE 7293 DNP Clinical Scholarship 3: 3 semester hours

Prerequisites: NURSE 7292. This experience provides additional opportunities to evaluate clinical preventative strategies with a targeted population in a complex healthcare environment. Students will evaluate evidenced-based clinical projects and health outcomes. Included in this experience is 200 hours immersion in their population focused scholarly project.

NURSE 7299 DNP Seminar: 1-3 semester hours

Prerequisites: All DNP required course work or Consent of Instructor. This seminar provides students with the opportunity to synthesize and analyze knowledge within the context of the emerging DNP role. Analysis of practice issues may include reflective practice, collaboration, health systems technology, ethics and policy.

NURSE 7300 Prevention of Injury and Disability: 3 semester hours

Prerequisites: Graduate status or consent of instructor. This course will examine trends in injury and disability nationally and internationally, relevant theories and conceptual models, the definition and measurement of key concepts, and analysis of interventions proposed for preventing injury and mitigating disability. The role of information and computer technologies in the management of disability will also be considered. Specific content will include age-related injury and disability, disability associated with cardiovascular and other chronic diseases, and the psychosocial contexts of disability, including traumatic stress and its outcomes.

NURSE 7401 Research Institute I: 2 semester hours

Prerequisites: Admission to Doctorial Study in Nursing. This course provides an introduction to the process of becoming a research scientist or translational investigator. Content will include the responsible conduct of research, its core elements, relevant policies and procedures, and relevant research. This course also includes the culture of nursing, literature reviews, scholarly writing, technology in the research process, developing a program of scholarship and effective time management.

NURSE 7403 Developer of the Nurse Scientist: 3 semester hours

Prerequisite: Admission to doctoral study in nursing. This course addresses the role of the PhD-prepared nurse as scientist, leader, academician, and policy maker. Students will analyze strategies for lifelong learning and development as nurse scientists and will explore avenues for building their programs of scholarship, funding opportunities, and contributing to nursing science in policy and clinical practice. Students will examine ways to collaborate effectively in order to improve health care and health outcomes.

NURSE 7480 Guided Nursing Research Seminar: 1-6 semester hours

Prerequisite: Consent of instructor Provides opportunity to work in collaboration with faculty and peers on a focused research topic relevant to nursing.

NURSE 7481 Development Of Nursing Science And Theory: 3 semester hours

Prerequisite: Admission to PhD Program. This course focuses on the discipline of nursing, including the evolution of the state of scientific inquiry and knowledge development in nursing. The course includes the aims of nursing science, the nature of nursing knowledge and scientific theories, and a discussion of relationships among theory, research, method, and practice. Students engage in constructive dialogue as they begin to conceptualize nursing phenomena in their area of interest.

NURSE 7488 Qualitative Methods In Nursing Research: 3 semester hours

Prerequisites: Admission to PhD program. Examines the relationship between theoretical and philosophical perspectives and selection of appropriate methodologies in research design. Critically explores issues related to innovations in traditional qualitative designs and emerging technologies, rigor and validity, and role of interpretive research in nursing science.

NURSE 7490 Advanced Nursing Research Designs and Methods: 3 semester hours

Prerequisite: Admission to the PhD program. This course focuses on development of the research plan including issues in sampling, design, and implementation nursing research. Students will evaluate research methods to answer research questions in their area of interest. Content includes design and analysis issues affecting validity, examination of measurement techniques for assessing validity, reliability, structure of data collection instruments, and criteria for instrument selection. A research proposal will be prepared.

NURSE 7491 Advanced Nursing Theory Development And Validation: 3 semester hours

Prerequisite: Admission to PhD program. This course focuses on a systematic study of contemporary nursing science and related theories in knowledge development, and the application of theory construction and validation strategies to specific nursing phenomena of interest. Students create and critically examine theoretical frameworks and models, with emphasis placed on constructing and testing theoretical statements.

NURSE 7492 Advanced Quantitative Measurement And Analysis Of Nursing Data: 3 semester hours

Prerequisite: NURSE 7490 This course focuses on measurement techniques and their applications in nursing research. Content includes examination of measurement and techniques for assessing validity, reliability, and structure of data collection instruments; application of advanced statistical principles; application of strategies for data manipulation and analysis; and discussion of measurement limitations and data analysis solutions.

NURSE 7493 Psychometrics: 3 semester hours

Prerequisites: NURSE 7490 and doctoral level statistics course and/or consent of instructor. This course focuses on application of psychometric theories and practices related to instrumentation in nursing research. Basic methodologies and techniques for constructing, testing, and evaluating instruments will be discussed and applied. Content will focus on theoretical foundations of measurement, item construction, instrument design, item analysis, validity and reliability assessment. Criteria for evaluating existing instruments will also be discussed.

NURSE 7498 Doctoral Seminar: 1-12 semester hours

Prerequisite: Consent of instructor Presenation and discussion of pertinent methodological and clinical issues related to doctoral research.

NURSE 7499 Dissertation Research: 1-12 semester hours

Prerequisite: All required course work; successful completion of comprehensive examination. Investigation of an advanced nature culminating in successful defense of dissertation. Continuous registration is required.

Graduate Study

Advanced Nursing Education

MSN

The College of Nursing offers master's degree nursing studies in two advanced practice roles: nurse educator and nurse practitioner.

Post-MSN Graduate Certificates

Students with master's degrees in nursing who wish to pursue nurse practitioner specialization may complete one of the post-MSN graduate certificates: adult-geriatric nurse practitioner, family nurse practitioner, pediatric nurse practitioner, women's health nurse practitioner, and advanced nursing practice with educator functional role.

DNP

The DNP program prepares graduates for the highest level of clinical practice, including clinical and translational analysis for improved practice outcomes.

Ph.D.

The Ph.D. program prepares nurses to pursue theoretical inquiry and conduct original research.

Master of Science in Nursing

The College of Nursing offers master's degree nursing studies in two advanced practice roles: nurse educator, and nurse practitioner. Students with master's degrees in nursing who wish to pursue one of the nurse practitioner specializations may complete one of the Post-MSN graduate certificates. Our MSN programs are offered cooperatively with the University of Missouri-Kansas City and the University of Missouri-Columbia. All MSN students complete the MSN core curriculum and functional role required courses. The MSN program is accredited by the Commission on Collegiate Nursing Education.

This graduate program offers students two tracks of study: 1) nurse educators complete a minimum of 41 credit hours with emphasis in the role of the nurse educator; and nurse practitioner's advanced practice nurses (APN) complete a minimum of 43 credit hours with emphasis in a population focus. Graduates with advanced practice nurse nurse

practitioner functional roles will be eligible to complete national board certification examinations in their emphasis area functional roles. Current nurse practitioner emphasis areas include Adult Nurse Practitioner, Family Health Nurse Practitioner, Neonatal Nurse Practitioner, Pediatric Nurse Practitioner and Women's Health Nurse Practitioner. Graduates completing the nurse practitioner options are eligible for recognition as advanced practice nurses in Missouri. Graduates with the Educator functional role preparation will be eligible to sit for the certification exam by the National League for Nursing after completing the required two years of faculty experience. Upon completion of the MSN degree requirements, this degree is awarded by the UMSL Graduate School. Building on baccalaureate nursing education, and upon completion of the MSN program or post MSN graduate certificate options, students will be able to:

- · Demonstrate integration of advanced knowledge and skills within the context of an advanced professional.
- · Provide leadership with interprofessional colleagues engaging strategic partners to improve health care outcomes and patient safety.
- · Integrate informatics in the design, implementation and evaluation of population-specific interventions.
- · Evaluate research findings to implement and disseminate evidence based professional nursing practice.
- · Provide ethically grounded, culturally competent health promotion with diverse populations.

MSN and Post-MSN Program Requirements

- BSN or MSN from a nationally accredited nursing program
- Minimum cumulative grade point average of 3.0 (4.0 scale)
- · Current professional licensure with eligibility for Missouri license
- · Successful completion of an undergraduate general statistics course
- · Successful completion of an undergraduate health assessment course or equivalent
- Two letters of reference regarding the applicant's academic potential (NP or CNS option)
- · Narrative outlining goals (NP or CNS functional role)
- Two years of clinical experience with chosen population are preferred prior to starting clinicals. (NP or CNS functional role)
- Computer literacy
- · Neonatal Nurse Practitioner (NNP) students must also submit:
- Evidence of 2 years of neonatal nursing experience within the last 5 years and a minimum of one year experience in a Level 3 NICU
- Evidence of Neonatal Resuscitation Program certification
- · Must reside in the United States

Availability of clinical resources may limit the number of applicants accepted to the practitioner options. Students are required to suggest their own preceptors for the Nurse Practitioner Clinical Courses NURSE 6954 (https://nextbulletin.umsl.edu/collegeofnursing) and NURSE 6955 (https://nextbulletin.umsl.edu/collegeofnursing). Deadline for fall admission is February 15th.

Degree Requirements

MSN Core Courses (required of all MSN students)

NURSE 6106 (p. Policy, Organization And Financing In Health Care

NURSE 6111 (p. Theoretical Foundations of Research and Practice 3 460)

NURSE 6120 (p. 460)	Population-Based Foundations of Health	3
NURSE 6130 (p. 460)	Research for Evidence-Based Practice	3
Total Hours		12
Advanced N Emphasis ar	ursing Practice Nurse Educator rea	
NURSE 6309 (p. 460)	Role Of The Nurse Educator	3
NURSE 6320 (p. 460)	Learning And Curriculum Development In Nursing	3
NURSE 6321 (p. 460)	Instructional Strategies In Nursing	3
NURSE 6322 (p. 460)	Evaluation Strategies in Nursing	3
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice	3
NURSE 6951 (p. 460)	Advanced Intensive Clinical for the Nurse Educator	2
NURSE 6952 (p. 460)	Synthesis Practicum	3
ADULT ED 6410 (p. 460)	The Adult Learner	3
Total Hours		29

Advance Practice Nurse Practitioner Emphasis

(Emphasis areas for adult-geriatric nurse practitioner, family nurse practitioner, pediatric nurse practitioner, and women's health nurse practitioner)

NURSE 6509 (p. 460)	Role Of The Clinical Nurse Specialist/Nurse Practitioner	2
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice ¹	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice ²	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice 3	3
NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2

Select one of the following:

NURSE 6739 Diagnosis and Management of the Adult-Geriatric (p. 460) Patient I & NURSE 6740 and Diagnosis & Mgmt of the Adult-Geriatric (p. 460) Patient II

NURSE 6741 Family Health 1

(p. 460) and Family Health II: Diagnosis & Management In & NURSE 674Adv Nursing Practice

(p. 460)

3

NURSE 6743 Child Health 1

(p. 460) and Child Health II: Diagnosis & Mgmt In
 & NURSE 674Advanced Nursing Practice
(p. 460)

NURSE 6746 Women's Health 1

(p. 460) and Women's Health II: Diagnosis & Mgmt In
 & NURSE 674Advanced Nursing Practice
(p. 460) and Advanced Practice Nursing: Internship 1
 & NURSE 695
(p. 460)

NURSE 6955 (p. Advanced Practice Nursing: Internship 2
460)

Total Hours

Advance Practice Nurse Practitioner Emphasis

(Emphasis areas for adult-geriatric nurse practitioner, family nurse practitioner, pediatric nurse practitioner, and women's health nurse practitioner)

NURSE 6509 (p. 460)	Role Of The Clinical Nurse Specialist/Nurse Practitioner	2
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice ¹	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice ²	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice 3	3
NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2

Select one of the following:

NURSE 6739 Diagnosis and Management of the Adult-Geriatric (p. 460) Patient I
& NURSE 6740 and Diagnosis & Mgmt of the Adult-Geriatric

(p. 460) Patient II

NURSE 6741 Family Health 1 (p. 460) and Family Health II: Diagnosis & Management In

& NURSE 674Adv Nursing Practice

(p. 460)

NURSE 6743 Child Health 1

(p. 460) and Child Health II: Diagnosis & Mgmt In

& NURSE 674Advanced Nursing Practice

(p. 460)

NURSE 6746 Women's Health 1

(p. 460) and Women's Health II: Diagnosis & Mgmt In

& NURSE 674Advanced Nursing Practice

(p. 460)

NURSE 6954 (p. Advanced Practice Nursing: Internship 1 460)

NURSE 6955 (p. Advanced Practice Nursing: Internship 2 460)

- Pediatric Nurse Practitioner students take NURSE 6519 (p. 460)Advanced Pediatric Pathophysiology
- Pediatric Nurse Practitioner students take NURSE 6529 (p. 460), Advanced Pharmacology for Pediatric Practice

- Pediatric Nurse Practitioner students may take NURSE 6526 (p. 460), Advanced Pediatric Physical Assessment
- Pediatric Nurse Practitioner students take NURSE 6519Advanced Pediatric Pathophysiology
- Pediatric Nurse Practitioner students take NURSE 6529, Advanced Pharmacology for Pediatric Practice
- Pediatric Nurse Practitioner students may take NURSE 6526, Advanced Pediatric Physical Assessment

Advanced Practice Nurse Neonate Nurse Emphasis area

17

4

Students in this emphasis area complete the MSN Core Courses on the UMSL campus and the following neonatal specialty courses through UM-KC:

N5547N	Neonatal Assessment
N5548N	Neonatal Physiology/Pathophysiology
N5549N	Neonatal Pharmacology
N5564N	Neonatal Nursing I
N5566N	Neonatal Nursing II
N5572NI	Preceptorship I
N5574II	Preceptorship II

Post-MSN Graduate Certificates

Post-MSN Graduate Certificate requirements are tailored to the individual student, depending on past academic work, experience, the student's goals, and specialty requirements. Upon completion of the post-MSN requirements, a graduate certificate is awarded by the College of Nursing and Graduate School. Graduates are eligible to apply to take board certification exams in the advanced practice role and population for which they have been prepared. Post-MSN emphasis areas available for study are:

- Nurse educator, Adult-Geriatric Nurse Practitioner, Family Nurse Practitioner, Pediatric Nurse Practitioner and Women's Health Nurse Practitioner.
- Students may be awarded credit for previous MSN core courses based upon successful completion of equivalent courses in their prior master's program, if these courses were completed less than 6 years ago.
- A minimum of 18 graduate credit hours are required for the post-MSN Graduate Certificate as stipulated in the Graduate School policies.

Post-MSN Adult-Geriatric Nurse Practitioner Certificate

NURSE 6509 (p. Role Of The Clinical Nurse Specialist/Nurse

	460)	Practitioner	
	NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice	3
	NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice	3
	NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice	3
	NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2

NURSE 6739 (p. 460)	Diagnosis and Management of the Adult-Geriatric Patient I	5
NURSE 6740 (p. 460)	Diagnosis & Mgmt of the Adult-Geriatric Patient II	5
NURSE 6954 (p. 460)	Advanced Practice Nursing: Internship 1	4
NURSE 6955 (p. 460)	Advanced Practice Nursing: Internship 2	4
Total Hours		31

Post-MSN Family Nurse Practitioner Certificate

NURSE 6509 (p. 460)	Role Of The Clinical Nurse Specialist/Nurse Practitioner	2
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice	3
NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2
NURSE 6741 (p. 460)	Family Health 1	5
NURSE 6742 (p. 460)	Family Health II: Diagnosis & Management In Adv Nursing Practice	5
NURSE 6954 (p. 460)	Advanced Practice Nursing: Internship 1	4
NURSE 6955 (p. 460)	Advanced Practice Nursing: Internship 2	4
Total Hours		31

Post-MSN Pediatric Nurse Practitioner Certificate

NURSE 6509 (p. 460)	Role Of The Clinical Nurse Specialist/Nurse Practitioner	2
NURSE 6519 (p. 460)	Advanced Pediatric Pathophysiology	3
NURSE 6526 (p. 460)	Advanced Health Assessment For Pediatric Nursing Practice	3
NURSE 6529 (p. 460)	Advanced Pharmacology For Pediatric Nursing Practice	3
NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2
NURSE 6743 (p. 460)	Child Health 1	5
NURSE 6744 (p. 460)	Child Health II: Diagnosis & Mgmt In Advanced Nursing Practice	5
NURSE 6954 (p. 460)	Advanced Practice Nursing: Internship 1	4
NURSE 6955 (p. 460)	Advanced Practice Nursing: Internship 2	4
Total Hours		31

Post-MSN Women's Health Nurse Practitioner Certificate

NURSE 6509 (p. 460)	Role Of The Clinical Nurse Specialist/Nurse Practitioner	2
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice	3
NURSE 6530 (p. 460)	Clinical diagnostics for Advanced Nursing Practice	2
NURSE 6746 (p. 460)	Women's Health 1	5
NURSE 6747 (p. 460)	Women's Health II: Diagnosis & Mgmt In Advanced Nursing Practice	5
NURSE 6954 (p. 460)	Advanced Practice Nursing: Internship 1	4
NURSE 6955 (p. 460)	Advanced Practice Nursing: Internship 2	4
Total Hours		31

Post-MSN Advanced Nursing Practice with Educator Functional Role

NURSE 6309 (p. 460)	Role Of The Nurse Educator	3
NURSE 6320 (p. 460)	Learning And Curriculum Development In Nursing	3
NURSE 6321 (p. 460)	Instructional Strategies In Nursing	3
NURSE 6322 (p. 460)	Evaluation Strategies in Nursing	3
NURSE 6518 (p. 460)	Pathophysiology For Advanced Nursing Practice	3
NURSE 6520 (p. 460)	Pharmacology For Advanced Nursing Practice	3
NURSE 6524 (p. 460)	Health Assessment For Advanced Nursing Practice	3
NURSE 6951 (p. 460)	Advanced Intensive Clinical for the Nurse Educator	2
NURSE 6952 (p. 460)	Synthesis Practicum	3
ADULT ED 6410 (p. 460)	The Adult Learner	3
Total Hours		29

Doctor of Nursing Practice (DNP)

The focus of the DNP program is preparation, at the highest level, of leaders in clinical nursing who can improve quality of care for individuals and populations through advanced practice and through improving systems of care. The curriculum is based on national standards for DNP education. The DNP is offered cooperatively with the University of Missouri-Kansas City and the University of Missouri-Columbia and is based on the needs of each campus and their communities of interest.

The DNP program is accredited by the Commission on Collegiate Nursing Education.

The DNP program is designed for graduates to attain the following program outcomes:

- Integrate nursing science, informatics, research and ethical and legal principles to provide excellence in advanced clinical nursing practice.
- Translate research science to improve healthcare delivery and health outcomes.
- Provide multidisciplinary leadership through analysis of critical indicators and/or health care delivery systems to optimize patience care and safety.
- Influence health policy-making to improve health outcomes, shape healthcare delivery, and remove barriers to healthcare.
- Develop and evaluate strategies to establish best practices in a specific setting.

Courses are designed to support nursing science, clinical research, leadership and a specialty area. Concepts woven throughout the courses include methodologies for translating research into practice, using culturally competent leadership techniques with diverse and underserved populations, advanced nursing science and clinical scholarship, clinical prevention, advanced nursing practice and clinical decision making, understanding organizational systems and change, and policy development. The DNP program is available for certification-eligible advanced practice nurses who have completed an accredited MSN degree or post-MSN certification program. This program is administered by the UMSL Graduate School.

Admission Requirements

The deadline for DNP applications for admission is April 1. Admission may be considered at a later date depending on space.

- Graduation from an MSN program or post-MSN APN certificate program with national nursing accreditation
- GPA of 3.0 or higher
- 2 Reference letters
- A proposed DNP project that matches faculty expertise
- · Interview by invitation
- Evidence of eligibility for advanced practice certification or current certification in an advanced practice role
- Current or eligible for advanced practice nursing recognition in Missouri or eligible for recognition as an advanced practice nurse in Missouri.

The DNP curriculum is divided into 4 general categories:

- · Leadership development and change
- Policy
- · Practice-focused evaluation/translational research
- Clinical excellence

A graduate level general statistics course completed within the previous five years is a prerequisite to NURSE 7230 (p. 460), Epidemiology and is required prior to the first fall semester. Such a course may be taken concurrently with NURSE 7402, Research Institute I during the first summer semester of the program.

Degree Requirements

Completion of the DNP program requires the following courses:

NURSE 7402	Research Institute 2 ¹	
NURSE 7200 (p. 460)	Nursing Science	3
NURSE 7220 (p. 460)	Leadership in Practice	3
NURSE 7230 (p. 460)	Epidemiology	3
NURSE 7240 (p. 460)	Health Informatics	3
NURSE 7250 (p. 460)	Frameworks for Health Care Delivery and Policy	3
NURSE 7260 (p. 460)	Program and Practice Evaluation	3
NURSE 7291 (p. 460)	DNP Clinical Scholarship I	3
NURSE 7292 (p. 460)	DNP Clinical Scholarship 2	3
NURSE 7293 (p. 460)	DNP Clinical Scholarship 3	3
NURSE 7299 (p. 460)	DNP Seminar	1-3
Total Hours		28-30

This course will not be offered in 2013-2014. Contact department for more information.

Near the end of the DNP program, students will complete a clinically focused project that satisfies the Graduate School dissertation requirements This project is completed while the student is enrolled in:

NURSE 7291 (p. 460)	DNP Clinical Scholarship I	3
NURSE 7292 (p. 460)	DNP Clinical Scholarship 2	3
NURSE 7293 (p. 460)	DNP Clinical Scholarship 3	3
NURSE 7299 (p. 460)	DNP Seminar	1-3
Total Hours		10-12

Total Minimum Graduate Credit Hours 30

Doctor of Philosophy in Nursing (Ph.D.)

The Ph.D. in nursing program at the University of Missouri - St. Louis affords students with academic, clinical, and research resources of the University of Missouri system through a cooperative arrangement with the schools of nursing at the University of Missouri. Upon completion of all degree requirements, the Ph.D. degree is awarded by the UMSL Graduate School.

The Ph.D. in nursing curriculum is divided into these general categories: nursing science and theory, nursing research methods and statistics, cognates and dissertation. The Ph.D. program is designed for graduates to attain the following outcomes:

 Develop skills and knowledge to establish a program of research and scholarship.

- Design, conduct and disseminate a dissertation that contributes to nursing knowledge.
- Translate nursing research into practice and policy.
- Assume leadership roles in health care by collaborations and partnerships with institutions in the greater St. Louis region.
- Improve the health care quality of life of individuals/families/ communities regionally, nationally and internationally.

Admission Requirements

Students are admitted each semester depending on space. Admission may be considered at a later date depending on space.

Applicants are evaluated based on the following criteria:

- Graduation from a nationally accredited baccalaureate program with 3.2 minimum GPA (4.0) scale. (BSN to PhD track) OR from a nationally accredited master's program with a 3.5 minimum GPA (4.0) scale. (MSN to PhD track)
- Satisfactory Graduate Record Examination (GRE) scores
- · Graduate level general statistics course within the last five years
- · Two letters of reference
- · Original essay on professional goals and research interests
- · Interview by invitation

International applicants must meet minimum requirements on tests of written and spoken English (TOEFL, Minimum 550 or better is desired). International students must also apply through the International Student Services Office.

Degree Requirements

While each program of study is individualized, BSN to PhD students complete a minimum of 65 hours of graduate-level course work. MSN to PhD students complete 47 credit hoursand 18 to a maximum of 30 M.S.N. hours, which support the program of study, are individually evaluated to determine eligibility for the application of candidacy. The overall Ph.D. in nursing program design includes nursing science and theory, research methods and statistics, cognates or support courses and dissertation.

Nursing Science, Theory, and Discipline of Nursing: 26 or more nursing credits including:

- Nursing science
- Advanced nursing theory development and validation
- · Discipline of nursing

Nursing Research Methods: 12 or more nursing credits including:

- · Quantitative Methods in nursing
- · Qualitative Methods in nursing
- Biostatistics

Cognates: 15 or more credits outside of the discipline of nursing which support the selected dissertation topic.

Dissertation: Minimum is 12 credits.

Courses

NURSE 1010 Orientation To Nursing: 0 semester hours

Prerequistes: Admission to four-year baccalaureate program. This mandatory eight-week introduction to the nursing program provides a comprehensive orientation to the program. Students are introduced to the academic and clinical expectations of the curriculum. Concerns critica for academic success (i.e., time management, effective study skills, stress management and dealing with test anxiety) are addressed.

NURSE 2101 Introduction to Nursing: 2 semester hours

This course introduces the historical and theoretical development of nursing as a discipline. Nursing is examined as a dynamic practice profession. Variables that influence nursing and health care are discussed. Concepts and skills introduced in this course guide the student's educational experience within the nursing major.

NURSE 2103 Nutrition And Health: 3 semester hours

This course examines nutritional needs throughout the life span with emphasis on nutritional principles related to health promotion and protection. Content includes assimilation, digestion and absorption of nutrients and cultural and economic influences on dietary practices.

NURSE 2105 Communication In The Nursing Profession: 3 semester hours

Prerequisites: none This course focuses on the development of communication abilities utilized in professional nursing. The individual's relationship with self, others and groups is discussed. Students learn verbal and non-verbal communication skills, self-awareness, and sensitivity to others. Interpersonal skills are introduced to enable the student to develop effective human caring relationships with a diverse population of clients and colleagues.

NURSE 3101 Nursing And Health: 6 semester hours

Prerequisites: BIOL 1131; BIOL 1141; CHEM 1052; NURSE 1010, NURSE 3106; NURSE 3110; NURSE 3111 An introduction to the discipline of nursing, the historical and theoretical development of nursing is explored with an emphasis on critical thinking, the teaching/learning process, and foundational practice concepts. Through modular laboraory experiences, the student acquires psychomotor skills to provide safe and effective nursing care to clients promoting health and wellness. Includes classroom, laboratory and clinical experiences.

NURSE 3106 Assessment Of Clients In Health And Illness: 3-4 semester hours

Prerequisites: BIOL 1131; BIOL 1141; BIOL 1162; CHEM 1052; PSYCH 1268; NURSE 1010. This course integrates theoretical knowledge and interpersonal skills in the assessment of clients, focusing on differentiating normal from abnormal findings. It emphasizes the use of problem solving, critical thinking and cultural competency in identifying multidimensional health variations across the life span. The course includes classroom and laboratory experiences.

NURSE 3110 Pathophysiological Bases Of Nursing Practice: 3 semester hours

Prerequisites: BIOL 1131, BIOL 1141, BIOL 1162, CHEM 1052 (or equivalent); NURSE 1010 This course focuses on the nature of disease, its causes and the bodily changes that accompany it. The course includes a study of general principles of disease, specific diseases of individual organs and systems and the clinical implications.

NURSE 3111 Pharmacotherapeutics In Nursing Practice: 3 semester hours

Prerequisites: BIOL 1141, BIOL 1162, CHEM 1052, NURSE 1010; pre/co requisite: Nursing 3110. This course introduces key terminology, legal foundations, general principles and clinical applications of pharmacology.

NURSE 3120 Foundations of Nursing: 7 semester hours

Prerequisites: All general education requirements and accelerated nursing option prerequisite non-nursing courses. This course introduces the student to the theoretical concepts and foundations of professional nursing practice. Utilizing an integrated approach, health promotion and protection throughout the lifespan are explored and supported using theories of nursing practice, health assessment of well individuals, and general principles and concepts of pharmacology and critical thinking.

NURSE 3121 Clinical Foundations of Nursing: 3 semester hours

Prerequisites: NURSE 3120. This course assists in the development and application of clinical reasoning in the lab, clinical agency, and simulation environments. Through clinical learning experiences, the student acquires basic psychomotor, communication, and medication administration skills. The student applies these skills in the provision of safe and effective nursing care to clients while promoting health, wellness, and clinical reasoning.

NURSE 3205 Adult Health Nursing I: 5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on the nursing care of the adult experiencing selected pathophysiological processes affecting body regulatory mechanisms. These mechanisms are related to immune responses, problems of oxygenation: ventilation, transport and perfusion: kidney function; regulatory mechanisms and digestion absorption and elimination. emphasis is placed on health restoration, maintenance and support as well as the continued development of the nurse-client relationship, critical thinking processes, and research-based nursing practice. This course includes classroom and clinical activities in a variety of settings.

NURSE 3206 Adult Health Nursing II: 5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on the nursing care of the adult experiencing selected pathophysiological processes affecting body regulatory mechanisms. These mechanisms are related to endocrine, sensory-perceptual, gynecological, and genitourinary functions. Emphasis is placed on health restoration, maintenance and support as well as the continued development of the nurse-client relationship, critical thinking processes, and research-based nursing practice. This course includes classroom and clinical activities in a variety of settings.

NURSE 3214 Psychiatric Mental Health Nursing: 4 semester hours
Prerequisites: All 3100-level nursing courses; PSYCH 1268. This course
focuses on health and illness across the lifespan of clients who have
acute and chronic emotional and psychosocial difficulties and psychiatric
illnesses. The course emphasizes development of students' decisional
capabilities, self-awareness and professional behaviors as they utilize
theory and research from nursing, psychology and related disciplines for
the provision of nursing care to individuals, families, & groups. Clinical
experiences in community and acute care settings are designed for
students to engage in individual and group strategies that promote and
maintain mental health. Course includes classroom and clinical activities in
a variety of settings.

NURSE 3215 Nursing Of Women And Childbearing Families: 4 semester hours

Prerequisites: All 3100 level nursing courses, PSYCH 1268. Focuses on the childbearing family and women's reproductive health, including family dynamics and growth and development. Health promotion, protection, maintenance and restoration are covered in experiences that include hospital and community settings. Health care policy and systems as relevant to these populations are included. Course includes classroom and clinical activities in a variety of settings.

NURSE 3216 Child And Family Health Nursing: 4 semester hours

Prerequisites: All 3100 level nursing courses, PSYCH 1268. This course focuses on pediatric health and illness with emphasis on family dynamics, growth and development and communication with children and their families. Health promotion, protection, restoration, maintenance and support concepts are covered in experiences that include hospital and community settings. Health care policy and systems are studied as relevant to this population. Course includes classroom and clinical activitiers in a variety of settings.

NURSE 3324 Sociology Of The Family: 3 semester hours

Prerequisite: Sociology 1010 or consent of instructor (Same as Sociology 3224) The study of patterns of close relationships, and how these relationships are inlfuenced by larger social forces. Topics include: love, dating, mate selection, cohabitation, alternative lifestyles, working families, parenting, single mothers, families in crisis, domestic violence, and divorce. Universal and variable aspects of family organization, family role systems, and changes in family social structure.

NURSE 3330 Nursing of Adults I: 5 semester hours

Prerequisites: Nurse 3120, Nurse 3121. This course focuses on the nursing care of the adult experiencing health problems affecting body regulatory mechanisms. These mechanisms are related to perioperative processes, immune processes, problems of oxygenation, cardiovascular alterations, fluid and electrolyte/acid-base imbalances, integumentary problems, abnormalities of the reproductive system and genetics, oncology and hematology problems. This course also incorporates relevant concepts of pharmacology and pathophysiology related to these conditions. Emphasis is placed on health promotion and restoration, maintenance and support as well as the continued development of the nurse-client relationship, clinical reasoning, and evidence-based nursing practice across the adult life span.

NURSE 3331 Clinical Nursing of Adults I: 3 semester hours

Prerequisites: NURSE 3330. This course focuses on the nursing care of adults in the lab, clinical agency, and simulation environments. Utilizing an integrated approach, advanced nursing skills and assessment techniques for adult clients are mastered in perioperative processes, immune processes, problems of oxygenation, hematology, cardiovascular alterations, fluid and electrolyte/acid-base imbalances, integumentary problems, abnormalities of the reproductive system, genetics and oncology problems. Clinical reasoning is developed and applied in order to provide safe and effective nursing care to adult clients across the health/illness continuum.

NURSE 3340 Behavioral Health Nursing: 2.5 semester hours

Prerequisites: All 3100 level nursing courses and PSYCH 1268. This course focuses on health and illness across the lifespan of clients who have acute and chronic psychosocial and behavioral health issues and specific psychiatric illnesses. An emphasis is placed on the nurse/client relationship in behavioral health promotion, restoration, maintenance and support.

NURSE 3341 Clinical Behavioral Health Nursing: 1.5 semester hour

Prerequisites: NURSE 3340. In this course students utilize theory and evidence from nursing and related disciplines in the provision of nursing care to individuals, families, and groups with psychiatric and behavioral health problems. Clinical experiences in community and acute care settings are designed so that students can engage in individual and group strategies that promote and maintain mental health.

NURSE 3350 Nursing of Adults II: 5 semester hours

Prerequisites: NURSE 3120, NURSE 3121. This course focuses on the nursing care for the adult experiencing complex pathophysiologic processes affecting body regulatory mechanisms. These mechanisms are related to endocrine, neurological, musculoskeletal, gastrointestinal, sensory-perceptual, male reproductive and genitourinary problems. This course also incorporates relevant concepts of pathophysiology and pharmacology related to these conditions. Emphasis is placed on health promotion and restoration, maintenance and support, as well as the continued development of the nurse-client relationship, critical thinking and evidence-based nursing practice across the adult life span.

NURSE 3351 Clinical Nursing of Adults II: 3 semester hours

Prerequisites: NURSE 3350. This course focuses on the nursing care of adults in the lab, clinical agency and simulation environments. Utilizing an integrated approach, complex psychomotor skills and assessment techniques for adult clients are mastered in patients with musculoskeletal problems, endocrine alterations, renal/genitourinary problems, sensory-perceptual problems, and liver problems. Clinical reasoning is developed and applied in order to provide safe and effective nursing care to adult clients with complex problems across the health/illness continuum.

NURSE 3360 Maternal-Child Nursing: 5 semester hours

Prerequisites: PSYCH 1268, NURSE 3120, NURSE 3121. This course focuses on women's reproductive health, childbearing and child rearing families, as well as the health and illness of children from conception through adolescence. There is an emphasis on family dynamics, growth and development, and communication with children and their families. Health care policy and systems are incorporated as they relate to diverse populations.

NURSE 3361 Clinical Maternal-Child Nursing: 3 semester hours

Prerequisites: NURSE 3360. Health promotion, protection, restoration, and maintenance for the mother-child and family care are addressed in experiences that include nursing skills lab, hospital agency and a variety of community settings.

NURSE 3799 Quantitive Analysis In The Health Sciences: 3 semester hours

Prerequisites: MATH 1030 or equivalent. This course focuses on concepts and applications of statistics in the health sciences. Topics include descriptive and inferential statistics, probability distributions of random variables, sampling and estimation. The course uses examples and content from health sciences to provide the basic concept structure for quantitative analysis.

NURSE 3804 Ethical And Legal Dimensions Of Nursing Practice: 3 semester hours

Prerequisites: Philosophy (3 credits). This course explores the ethical and legal dimensions of nursing practice. The relationship between ethical and legal issues is examined within nursing situations. the student participates in dialogue addressing ethical-legal issues in professional nursing practice to explore personal values, increase sensitivity to others and to develope ethical reasoning abilities.

NURSE 3807 Nursing Research - Evidence Based Nursing Practice: 3 semester hours

Prerequisite: NURSE 3799 (or equivalent). This course prepares nurses to provide evidence based care to patients among the rapid advances in the science and technology of healthcare. This course provides a basic understanding of how evidence is developed, including the research process, clinical judgment, interprofessional perspectives, and patient preference as applied to nursing practice. Students will learn a systematic method to evaluate and apply research findings and other evidence in designing and implementing nursing care that is multidimensional, high quality, and cost-effective.

NURSE 3808 Management And Leadership In Nursing: 2-3 semester hours

Prerequisites: All 3000 level nursing courses; Economics 1000 or equivalent) This course prepares the nurse to coordinate and manage client care in diverse health care settings. Emphasis is placed on leadership and management theory and related skills, collaboration, delegation, coordination, and evaluation of multi-disciplinary work and the application of outcome-based nursing practice.

NURSE 3817 Introduction To Nursing And Health Informatics: 3 semester hours

This online laboratory course establishes competency in fundamental information management and computer technology skills. It enables students to use existing information systems and available information to manage nursing practice. Students critically evaluate technology, information, and its sources; use decision support systems designed for clinical decision making; and focus on the representation of nursing data, information, and knowledge.

NURSE 3820 Introduction to Evidence-Based Nursing Practice and Informatics: 5 semester hours

Prerequisites: NURSE 3799 or equivalent statistics course. This course will focus on current review of qualitative and quantitative nursing literature and research utilization through evidence-based practice and establish competency in fundamental information management and technology. Students will examine the research and evidence-based process through analysis and critique of nursing literature; critically evaluate technology, information, and its sources; use decision support systems designed for clinical and ethical decision making; and focus on the presentation of nursing data, information, and knowledge.

NURSE 3873 Guided Study In Nursing: 1-3 semester hours

This course is an in-depth independent study of selected topics in nursing under the guidance of a specific instructor. No more than six hours may be taken under this option.

NURSE 3900 Dimensions Of Professional Nursing: 3 semester hours

Prerequisites: Admission to the College as RN This course investigates the roles and responsibilities of the professional nurse within a rapidly changing health care delivery system. Key issues are explored with emphasis on health promotion and health. Graduates of diploma nursing programs will be awarded college credit for successful validation of basic nursing knowledge as part of this course.

NURSE 3920 Health Assessment: 3 semester hours

Prerequisites: NURSE 3900 and NURSE 3817 (may be taken concurrently) or consent of instructor This laboratory course focuses on the knowledge, communication abilities, and technical skills necessary for comprehensive assessment of individuals of all ages.

NURSE 4300 Community Health Nursing: 4 semester hours

Prerequisites: All 3000 level nursing courses This course provides a conceptual foundation for nursing that recognizes the community as client in society. The course examines socioeconomic, environmental, epidemiological, and legislative influences, ethical/legal issues, and the impact of health beliefs and practices on health promotion and protection in communities and society. The student applies various theories and concepts when encountering families, groups and communities with diverse value systems and cultural backgrounds. Course includes classroom and clinical activities in a variety of settings.

NURSE 4310 Senior Synthesis: 5 semester hours

Prerequisites: All 3000 level nursing courses; NURSE 4300 and NURSE 3808 may be taken concurrently. This course integrates theory and practice from previous nursing and general education courses with the goal of preparing the student for entry into professional nursing practice. Within a seminar context, students explore a variety of clinical and professional nursing topics. The course includes research-based strategies utilized for health promotion and protection, health restoration, maintenance and support. Areas of study are selected from accross the lifespan, including diverse populations in a variety of health care systems. Course includes classroom and clinical experiences in a variety of settings. Not for graduate credit.

NURSE 4520 Population Focused Nursing: 2 semester hours
Prerequisites: All 3300 level nursing courses, NURSE 3804, NURSE
3820. This course provides a conceptual foundation for nursing that
recognizes populations in society. The course examines the effect of
socioeconomic and environmental, epidemiological factors, and the impact
of health beliefs and practices on health promotion and protection in
populations. This course also focuses on epidemiological factors and
legislative influences in diverse populations.

NURSE 4521 Clinical Population Focused Nursing: 2 semester hoursPrerequisites: NURSE 4520. This clinical course focuses on the
nursing care of populations in various settings. The student applies
population-based theories and concepts when encountering individuals,
families, groups and populations with diverse value systems and cultural
backgrounds.

NURSE 4530 Leadership Development and Professional Nursing Practice: 4 semester hours

Prerequisites: All 3300 level nursing courses, NURSE 3804, NURSE 3820. This course integrates theory and practice from previous nursing and general education courses with the goal of preparing the student for entry into professional nursing practice. Areas of study are selected from across the lifespan, including diverse populations in a variety of health care systems. Topics will include leadership, management theory and related skills, collaboration, delegation, coordination, and evaluation of outcome based interdisciplinary nursing practice.

NURSE 4531 Clinical Leadership Development and Professional Nursing Practice: 4 semester hours

Prerequisites: NURSE 4530. This clinical course includes a variety of experiences to prepare the student nurse to lead, coordinate, and manage client care in diverse health care settings. This course includes research-based strategies utilized for health promotion and protection, health restoration, maintenance, and support. Areas of study are selected from across the lifespan, including diverse populations in a variety of health care systems.

NURSE 4720 Perioperative Nursing: 3 semester hours

PREREQUISITES: Consent of the instructor. Provides experiences in preoperative, intraoperative, and postoperative settings. Includes a clinical component.

NURSE 4722 Transcultural Nursing: 3 semester hours

Prerequisite: Consent of the Instructor. Examines transcultural nursing concepts, theories and practices in relationship to human caring. Focuses on application and analysis of health care and scope of practice within selected cultural contexts. Includes practicum experiences.

NURSE 4723 Nurse Externship: 3 semester hours

Prerequisite: Senior level status; GPA 3.0 (4.0 scale) This course provides the opportunity to apply theoretical and conceptual knowledge and skills in a structured clinical environment under the guidance of a mentor.

NURSE 4724 Emergency/Trauma Nursing: 3 semester hours

Prerequisites: NURSE 3205 and NURSE 3206 or consent of instructor. This course provides a framework for the roles and responsibilities of the professional registered nurse in Emergency and Trauma nursing care.

NURSE 4726 Parish Nursing: 3 semester hours

Prerequisites: All 2000 level nursing coursed\s, NURSE 3205 and NURSE 3214. This course provides a conceptual foundation that recognizes a speciality of nursing practice that combines professional nursing and health ministry. It examines four major concepts: professionalism; health and wholeness; spirituality; and community as it relates to culture and diversity. The course includes classroom discussion, individual reflection and community based learning experiences.

NURSE 4730 Nursing Care At The End Of Life: 3 semester hours
Prerequisites for Nursing Students NURSE 3205 and NURSE 3214. All others by consent of instructor. This course focuses on the nursing care of terminally ill patients and their families. Topics explored will include the impact of personal values and beliefs about death, physiology of end stage disease processes, symptom assessment and management, psychosocial and spirtual support, consideration in special patient populations, societal issues and trends in end of life care, ethical considerations in caring for the dying patient, grief and bereavement processes, and the role nursing in end of life care across settings.

NURSE 4741 Advanced Nrsg Assmt & Mgt Of Clients W/Cardiac Dysrhythmias: 3 semester hours

PREREQUISITES: Senior status Focuses on advanced nursing assessment and management of clients with cardiac rhythm problems and conduction disturbances. Includes a clinical component.

NURSE 4742 Critical Care Nursing Of The Adult: 3 semester hours
Prerequisites: RN or completion of NURSE 3205 and NURSE 3206 (or
equivalent). Focuses on health restoration, health maintenance, and
health support of individuals with dysfunctions or trauma to major organ
systems. Emphasis is on understanding pathophysiology and psychosocial
processes related to nursing and collaborative interventions, and the
development of a functional framework for data organization and analysis.

NURSE 4901 Family And Community Nursing: 5 semester hoursPrerequisites: NURSE 3900, NURSE 3817 and NURSE 3920 This
practicum course introduces the concepts, principles, skills, and
professional nursing roles essential to practice community-based
professional nursing with families and groups.

NURSE 4905 Values In Professional Nursing: 3 semester hours

Prerequisites: All 3000 level RN/BSN nursing courses or consent of instructor Explores values and beliefs as they shape professional nursing practice and influence clinical decision making and interventions in the evolving health care system. Attention is given to the impact of sociocultural factors and health/illness beliefs and practices of the diverse populations served by the professional nurse. Students examine their own understanding of the moral nature of professional nursing within the context of a diverse society.

NURSE 4911 Synthesis In Nursing Practice: 5 semester hours

Prerequisites: NURSE 4901. This practicum course focuses on community-based application and synthesis of professional nursing roles and responsibilities with selected populations determined to be at risk for a variety of health related problems. The course includes assessment of cognitive and affective growth achieved while in the BSN Completion Program.

NURSE 6000 Statistics in Nursing & Health Sciences: 3 semester hours

Prerequisites: Admission to graduate study in nursing or consent of instructor. Provides students with a graduate level understanding of quantitative methods and their relationship to research in nursing and health sciences. Students will conduct lab data analysis based on the topics covered in the class and learn how to generate specific research questions and conduct basic statistical analysis.

NURSE 6104 Values And Cultural Diversity In Advanced Nursing Practice: 3 semester hours

Prerequisites: Admission to MSN Program. This course explores the diversity of cultural influences and the moral/ethical influences on advanced nursing practice. The values and cultural beliefs of the individual student and the underlying values of the health care system are analyzed for their impact on communities and health care. Health/illness beliefs and practices of individuals, families and communities are explored as well as folk health care and complementary medicine. This course includes: values clarification, ethical analysis, cultural diversity, and culturally competent care.

NURSE 6106 Policy, Organization And Financing In Health Care: 3 semester hours

Prerequisites:Admission to MSN program. This course presents an overview of health care policy, organization, and financing with emphasis on current health care trends. The focus is on the design and implementation of health care delivery systems with the goal of providing safe, quality, and informatics driven cost-effective care. Emphasis is placed on the development of a leadership role in managing human, financial, and physical health care resources. The format includes pertinent information concerning primary health care and public health issues, the relationship between these issues, and improving health care delivery and outcomes.

NURSE 6111 Theoretical Foundations of Research and Practice: 3 semester hours

Prerequisites: Admission to the Master's program in the college of Nursing. This course provides an overview of selected theories and frameworks that can be used to guide advanced practice nurses in facilitating their learning and use of evidence-based practice. It is centered on the explication of major theories that will be used in practice. Nursing middle-range and practice theories, theories related to cultural aspects of care, population-based theories, change theories, and informatics theories such as bioinformatics and genetics will form the foundation for advanced practice.

NURSE 6112 Nursing Research Methods: 3 semester hours

Prerequisites: NURSE 3799 or equivalent; NURSE 6111 may be taken concurrently This course is designed to provide the student with the skills required to be a consumer of nursing research. These include the fundamentals of scientific inquiry in nursing as well as the information necessary to understand and evaluate nursing research. Principles and techniques common to scientific investigation are applied to nursing. Researchable problems are developed.

NURSE 6114 Evidence-Based Nursing: 3 semester hours

Prerequisite: NURSE 6112 This course prepares nurses to review existing nursing research about a nursing practice problem and to propose appropriate changes in current nursing practice. The theoretical basis for evidence-based nursing with respect to screening, diagnosis, selection of treatment alternatives, and prognosis are examined. Research designs such as case control and cohort studies are included. Practical application of change in nursing is examined, including formative and summative aspects of evaluation. Opportunities are provided to develop a plan to implement evidence-based change in an area of nursing practice.

NURSE 6120 Population-Based Foundations of Health: 3 semester hours

Prerequisite: Admission to MSN. The purpose of this course is to provide students with an advanced nursing practice perspective on providing population-based nursing care. This course includes an evaluation of human and cultural diversity in the health-illness continuum. Core concepts include ethics; theories of health and health promotion, protection, restoration, and maintenance; and the support needed for a peaceful death. Coursework will focus on community/population-based data on epidemiology, disease and injury prevention, health education, growth and development, and family systems.

NURSE 6130 Research for Evidence-Based Practice: 3 semester hours

Prerequisites: Admission to MSN. This course provides students with skills required to systematically explore and evaluate current nursing knowledge for scientific and clinical merit to promote evidence-based nursing practice. Students select a researchable problem, review and critique relevant literature, consider ethical and cultural issues, examine methodological procedures associated with scientific investigation, and explore potential barriers to evidence-based practice. Students critically analyze differing research paradigms and current issues surrounding research and evidence-based practice.

NURSE 6140 Health Promotion Across The Life-Span: 3 semester hours

Prerequisites: NURSE 6111. This course is designed to provide students with an advanced-knowledge base, related to the concepts of health promotion and health protection across the lifespan. Emphasis is placed on the application of various developmental theories for infant, child, adult, older adult and family which will provide the basis to individualized healthcare needs for various ages and family groups. This course includes: theories of health promotion and protection, epidemiology, disease and injury prevention, health education, cultural competencies, growth and development, nutrition, and family systems theory. Emphasis is placed on theory and research relevant to health promotion and the family as the unit of service.

NURSE 6144 Health Promotion and Cultural Diversity: 3 semester hours

Prerequisites: Admission to the MSN Program. This course provides graduate nursing students with knowledge related to the concepts of health promotion, health protection, cultural diversity, and moral/ethical influences across the lifespan. core concepts for the course include theories of health and health promotion and protection, epidemiology, disease an injury prevention, health education, cultural diversity, growth and development, nutrition and family systems. The students will explore values clarification and ethical analysis.

NURSE 6220 Measurements Of Nursing Phenomenon: 3 semester hours

Prerequisite: NURSE 6111. The theoretical basis of measurement is presented in a foundation for the development and evaluation of measurement instruments and procedure for use in nursing research. Content is presented regarding measurement theories, techniques of construction, statistical analysis of reliability and validity and strengths and limitations of selected measures of nursing research.

NURSE 6309 Role Of The Nurse Educator: 3 semester hours

Prerequisites: Admission to the MSN program or consent of instructor. This course will explore the roles, responsibilities, and functions of the nurse educator. Emphasis will be placed on the development and evaluation of the interactive nature of teaching and learning in a variety of settings.

NURSE 6320 Learning And Curriculum Development In Nursing: 3 semester hours

Prerequisites: NURSE 6309. This course examines theoretical foundations, principles, and issues in curriculum design. Explores systematic evaluation of curriculum at all levels.

NURSE 6321 Instructional Strategies In Nursing: 3 semester hours

Prerequisites: NURSE 6309 or consent of Instructor; must be taken concurrently with NURSE 6320. This course focuses on the development and analysis of teaching and learning strategies in nursing education. Adult learning principles of teaching and learning will be incorporated into the innovative strategies developed within this course. Integration of new technology in instructional design and delivery will be highlighted. Evaluation methods of both teacher and learner will be explored.

NURSE 6322 Evaluation Strategies in Nursing: 3 semester hours

Prerequisites: NURSE 6309. This course provides students the opportunity to learn evaluation concepts, including testing and measurement in nursing education at the didactic, clinical and programmatic levels. Content includes strategies to assess and evaluate learning in the cognitive, psychomotor and affective domains. Quality improvements, as well as legal and ethical considerations are explored. Key concepts include criterion and norm referenced theory and technique; reliability, validity, and the associated descriptive statistics; preparation of instrumental objectives for use in developing classroom tests and clinical nursing performance evaluations.

NURSE 6409 Role Of The Nurse Leader: 3 semester hours

Prerequisites: Admission to the Master's Program in the College of Nursing or consent of the instructor. Analysis of the roles and responsibilities of the nurse executive in a complex healthcare system. This course explores the roles and challenges of the clinical nurse leader. Emphasis will be placed on the responsibilities of the clinical nurse and clinical nurse leader in a complex healthcare system.

NURSE 6425 Managed Care Services: 3 semester hours

Prerequisites: Admission to the MSN or consent of instructor Provides an analysis of the health care environment in managed care and its impact on the nurse's role.

NURSE 6426 Health Resources Management: 3 semester hours

Prerequisite: NURSE 6409. This course focuses on the roles and responsibilities of the nurse leader for fiscal and human resource management in both public and private sectors. Includes analysis of the environment, healthcare organization within the system and impact of resource management on nursing and health care.

NURSE 6428 Theory And Practice In Nursing Leadership: 3 semester hours

Prerequisite: NURSE 6409. This course focuses on theories and practices of advanced nursing leadership and management practice within complex healthcare systems. This course will also compare to global healthcare systems. Particular focus will be on the applicaton/effectiveness assessments of the practices within healthcare organizations. Patient safety and quality management theory practices in healthcare will be discussed in depth and compared to other industries' safety and quality management programs theory/practices.

NURSE 6509 Role Of The Clinical Nurse Specialist/Nurse Practitioner: 2 semester hours

Prerequisites: Admission to the Master's Program in the College of Nursing or consent of instructor. This course will focus on issues affecting the emerging roles of the nurse practitioner and clinical nurse specialist. It is designed to facilitate the role development of nurses who desire to function as primary care providers and/or as specialists within a specific clinical area of advanced nursing practice. Emphasis include sub-roles of advanced practice (leader, consultant, expert, researcher, educator), legal and professional issues, change theories, and standards of practice.

NURSE 6517 Physiology/Pathophysiology Of The Neonate: 3 semester hours

Prerequisites: Admission to the MSN Neonatal subspecialty track or consent of instructor Corequisite: 404N Concepts of embryology, neonatal physiology and pathophysiology are used to provide an in-depth study of normal functioning and alteration of normal physiological functioning in cells, tissues, organs, and organ systems. Alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on neonates. Both generalized processes and major system dysfunctions are addressed.

NURSE 6518 Pathophysiology For Advanced Nursing Practice: 3 semester hours

This course focuses on implications for advanced nursing practice through examination of selected pathophysiological phenomena which occur frequently in the diverse populations to whom advanced nurses provide care

NURSE 6519 Advanced Pediatric Pathophysiology: 3 semester hours

This course focuses on embryology of the major organ systems, as well as specific physiologic and pathophysiologic processes relevant to the child from birth through age 18. Implications for advanced nursing practice which result from alterations of normal physiologic functioning in cellular, tissue, and organ systems are examined. Emphasis is placed on the relationship between pathophysiology, decision making and standards of advanced nursing practice.

NURSE 6520 Pharmacology For Advanced Nursing Practice: 3 semester hours

Prerequisites: NURSE 6518 or equivalent or consent of instructor. This is a course in clinical pharmacotherapeutics that builds on prior knowledge of drug classifications, actions, interactions, and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health-care management by advanced practice nurses. Emphasis is placed on clinical critical thinking process used to prescribe drugs in the management of specific illnesses. The Missouri laws for advanced practice nurse prescriptive authority will be addressed. Emphases include pharmacodynamics, pharmacokinetics, pharmacotherapeutics, health-related information, medication compliance, and issues that pertain to the prescribing of medications in advanced nursing practice.

NURSE 6524 Health Assessment For Advanced Nursing Practice: 3 semester hours

Prerequisite: NURSE 6518 (may be taken concurrently). This course is designed to provide a systematic approach to the advanced physical assessment as well as psychological, sociocultural, developmental and spiritual assessment of individuals across the lifespan. This course builds upon basic health assessment knowledge and skills, laboratory work interpretation, validation, documentation, and analysis of assessment findings. Two hours of theory and 1 hour of clinical lab per week are required.

NURSE 6525 Advanced Health Assessment Of The Neonate: 3 semester hours

Prerequisites: Admission to the MSN Neonatal option or consent of instructor; Nursing 418N may be taken concurrently. A developmental and systematic approach to the advanced assessment of physiological, psychological, sociocultural & developmental aspects of the fetus, mother in the prenatal period, and the neonate is discussed. This approach builds on basic assessment skills and emphasizes perinatal, genetic, and embryologic factors impacting neonatal development. Ways to assess the pregnant woman for problems, the use of special diagnostic tests, and the assessment of the neonate also are explored. Forty hours of laboratory/ clinical activities during the semester, which provide opportunities to implement various assessment and diagnostic procedures, complete appropriate health histories, perform complete physical examinations, and complete a perinatal history are required.

NURSE 6526 Advanced Health Assessment For Pediatric Nursing Practice: 3 semester hours

Co-requisite: Nursing 6519 or permission of the instructor. Comprehensive assessment of children through adolescence, including those with significant health and/or developmental deviations, using advanced diagnostic reasoning process. Emphasis on health history, cultural diversity, differentiation, interpretation, and documentation of findings.

NURSE 6529 Advanced Pharmacology For Pediatric Nursing Practice: 3 semester hours

Prerequisites: Admission to Master of Science in Nursing or permission of the instructor. This course is a clinical pharmacotherapeutics that builds on prior knowledge of drug classifications, actions, interactions, and adverse drug reactions. The major focus of the course is the pharmacotherapeutic use of medications for primary health care management of children from birth to young adulthood by advanced practice nurses. Emphasis is placed on the clinical critical thinking process used to prescribe drugs in the management of specific illness. The Missouri Laws for advanced practice nurse prescriptive authority will be addressed. Core concepts include pharmacodynamics, pharmacokinetics, health related information, medication compliance and issues that pertain to the prescribing of medication in advanced nursing practice.

NURSE 6530 Clinical diagnostics for Advanced Nursing Practice: 2 semester hours

Prerequisites: NURSE 6518 or NURSE 6519. This course provides an introduction to the interpretation and appropriate use of diagnostic measures for advanced practice nurses in primary care settings. Special attention is paid to laboratory, radiographic and diagnostic testing. In addition, clinical opportunities will be provided to gain clinical interventional skills for advanced practice nursing.

NURSE 6739 Diagnosis and Management of the Adult-Geriatric Patient I: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130, NURSE 6518. Clinical course is designed to provide a theoretical and practical base for advanced practice nursing students to diagnose and manage health problems through the life span from young adulthood through old age. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to clinically apply the concepts and theories discussed in class in the advanced nursing care of adults who are experiencing problems related to the upper and lower respiratory system, cardiovascular system, gastrointestinal system, skin, and infectious diseases. Clinical experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems.

NURSE 6740 Diagnosis & Mgmt of the Adult-Geriatric Patient II: 5 semester hours

Prerequisite: NURSE 6739. Clinical course is designed to provice a theoretical and practical base for advanced practice nursing students to diagnose and manage health problems through the life span from young adulthood through old age. Emphasis is placed on clinical assessment and decision-making in the provision of direct patient care within a defined scope of practice. The student is expected to clinically apply the concepts and theories discussed in class in the advanced nursing care of adults experiencing problems related to the musculoskeletal, neurological, endocrine/metabolic, genitourinary, reproductive systems, the eye, and mental health. Clinical experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems.

NURSE 6741 Family Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130, NURSE 6518, NURSE 6520, NURSE 6524. NURSE 6509 and NURSE 6530 may be taken concurrently. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of individuals and families across the life span. The focus is children, women and adults. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6742 Family Health II: Diagnosis & Management In Adv Nursing Practice: 5 semester hours

Prerequisites: NURSE 6741 This clinical course is designed to provide students with the opportunity to gain the concepts and skills essential to advanced practice nursing care of families experiencing acute and chronic health problems, with particular focus on adult clients. Emphasis is given to those health problems most commonly encountered by the Family Nurse Practitioner. A research-based and theory-based approach to nursing interventions is used. Emphases include family adaptation to acute and chronic conditions, health promotion, clinical decision-making, and ethical decision-making. 4 didactic hours and 1 clinical hour per week are required.

NURSE 6743 Child Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6130; NURSE 6518 or NURSE 6519; NURSE 6520 or NURSE 6529; NURSE 6526. NURSE 6509 and NURSE 6530 may be taken concurrently or instructor consent. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of pediatric individuals and their families. The focus is the life span of the infant through adolescence. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6744 Child Health II: Diagnosis & Mgmt In Advanced Nursing Practice: 5 semester hours

Prerequisites: NURSE 6743. This course is designed to provide students with the opportunity to apply skills from advanced physical assessment, pathophysiology pharmacology, and theory to advanced nursing care of the child and the family. Emphasis is placed on using models and theories that guide advanced practice and planning evidence-based care. The focus is on assessing, diagnosing and planning care for clients with common pediatric problems. The implications of the developmental stage of the child and family, level of developmental skill and developmental problems for the maintenance of health, and the management of illness by the advanced practice nurse are discussed. Documentation includes pertinent history, physical examination, laboratory findings and differential diagnosis relevant to the individual client. Focus is on developing a plan of care that encompasses the various treatment modalities used in managing common pediatric health problems including specific pharmaceutical and symptomatic treatment. Clinical practice opportunities are arranged in collaboration with the instructor and planned in a variety of pediatric settings. Four hours of didactic and 1 hour of clinical per week are required.

NURSE 6746 Women's Health 1: 4-5 semester hours

Prerequisites: NURSE 6106, NURSE 6111, NURSE 6120, NURSE 6518. May be taken concurrently with NURSE 6309 and NURSE 6350. Emphasis is placed on clinical assessment and decision making in the provision of direct patient care within a defined scope of practice. The student is expected to apply the concepts and theories discussed in class in the advanced nursing care of women. The focus is on reproductive health and the lifespan life of women throughout the childbearing continuum, including grief and loss. Experiences are designed to enhance assessment and technical skills needed in diagnosing common health problems. This course is 4 hours if taken without a clinical lab and 5 hours if taken with a clinical lab.

NURSE 6747 Women's Health II: Diagnosis & Mgmt In Advanced Nursing Practice: 5 semester hours

Prerequisites: NURSE 6746 Clinical course designed to provide students with the opportunity to apply knowledge and skills to advanced practice nursing care of women and families throughout the lifespan. Emphasis is placed on using models and theories that guide advanced practice and research-based care. Focus is on educating the advanced practice nurse to collaborate with women and their families to promote health and prevent disease. Within this context, focus is on assessing, diagnosing and planning care for well women, as well as women experiencing common women's health problems within a health promotion framework. The format includes pertinent history, physical examination, laboratory findings, and differential diagnoses relevant to the individual client. Core concepts include adaptation of women through developmental stages, health risk assessment, health promotion, disease prevention, health education, primary care of well women, ethical decision-making, and grief and loss. Focus is on the development of a plan of care that encompasses the various treatment modalities used in managing common women's health problems including specific pharmacological and non-pharmacological therapies.

NURSE 6748 Neonatal Nursing I: 3 semester hours

Prerequisites: Nursing 6525, 6528, 6517, or consent of instructor; Nursing 6749 may be taken concurrently. The first of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determing appropriate care of the ill neonate. Current research and evidenced-based practices are used as the course framework. The effects of critical conditions on the growth and development of the neonate, including subsequent chronic health prolems as well as the short and long term consequences to the child's family are emphasized. Disorders of the central nervous, pulmonary, and and cardiovascular systems will be discussed. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory/clinical settings during forty hours of required clinical activities.

NURSE 6749 Neonatal Nursing II: 3 semester hours

Prerequisites: NURSE 6525, NURSE 6528, NURSE 6517 or consent of instructor; NURSE 6748 may be taken concurrently The second of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determining appropriate care of the ill neonate. Current research and evidence-based practices are used as the framework. The effects of critical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as short and long term consequences to the child's family are emphasized. Disorders of the gastrointestinal, renal, endocrine, hemotologic, musculoskeletal, opthalmologic, dermatologic and immune systems will be discussed. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory/clinical settings during forty hours of required clinical activities.

NURSE 6870 Special Topics In Advanced Practice Nursing: 1-3 semester hours

Prerequisites: Consent of instructor Explore special topics for the advanced practice nurse in the areas of research, theory, education and administration. No more than three hours shall be applied toward the degree. This course is for graduate MSN or PhD levels.

NURSE 6875 Special Study In Graduate Nursing: 1-3 semester hoursPrerequisites: Admission to MSN prog or consent of instructor In-depth studh of selected topics in nursing under the guidance of a specific instructor. No more than three hours may be applied to the master's program of study.

NURSE 6950 Advanced Nursing Practice: 4 semester hours

Prerequisites: Nurse 6739 or 6743 or 6746. Advanced nursing practice examines different nursing an dinterdisciplinary models of case management of acute and chronic problems across the lifespan. The intensive clinical experience focuses on the student's specialty care area: adults, pediatric or women's health.

NURSE 6951 Advanced Intensive Clinical for the Nurse Educator: 2 semester hours

Prerequisites: Nurse 6520, Nurse 6524, Nurse 6309. This course provides a concentrated opportunity to function in an advanced nursing role as a nurse educator incorporating an intensive clinical experience focusing on the student's chosen population.

NURSE 6952 Synthesis Practicum: 3 semester hours

Prerequisites: All required courses in the Nurse Educator or Nursing Leadership of Health Systems option or consent of instructor. This clinical course is a concentrated opportunity to function in an advanced nursing role as a nurse administrator, integrating clinical and functional role activities within a chosen setting. Emphasis includes educator or administrator nursing practice, functional role responsibilities, and activities with emphasis on their relationship to client outcomes.

NURSE 6954 Advanced Practice Nursing: Internship 1: 4 semester hours

Prerequisites: All required graduate Nursing courses. This clinical course provides opportunity for the initiation of the nurse practitioner role with selected populations. Students participate in precepted experiences with certified nurse specialists, practitioners and/or primary care physicians for a minimum of 250 hours. Students will participate in clinical seminars. May be taken concurrently with other required courses.

NURSE 6955 Advanced Practice Nursing: Internship 2: 4 semester hours

Prerequisites: NURSE 6954. Continuation of precepted clinical experiences with a selected populations initiated in NURSE 6954. Students satisfy a minimum of 250 precepted hours with clinical nurse specialists, certified nurse practitioners, and/or primary care physicians and participate in frequent clinical seminars.

NURSE 7200 Nursing Science: 3 semester hours

Prerequisites: Admission to a doctoral study in nursing. This course examines the state of scientific knowledge in nursing research and practice. Gaps in the nursing research and practice are identified. Interrelationships between nursing science and scientific developments in other disciplines from the perspectives of health outcomes, population health indices, and policy implications of scientific progress are analyzed. Advanced in biophysiological, psychosocial, sociocultural, health systems, and health economics research and the implications for translation to improve nursing science and practice are analyzed.

NURSE 7211 Biostatistics I: 3 semester hours

Prerequisites: Admission to PhD program. This course provides a comprehensive understanding of the use of biostatics in conducting research. Data description, logic of sampling and test statistics, hypothesis testing, type 1 and type 2 errors are included. Test statistics include one-way ANOVA, (analysis of variance); post-hoc tests and trend analysis; factorial ANOVA; repeated measures designs and mixed randomized repeated designs; multiple comparison techniques; and simple and multiple regression.

NURSE 7212 Biostatistics II: 3 semester hours

Prerequisites: Admission to PhD program This course builds on statistical procedures and advances the student's understanding of advanced statistical methods including design and measurement.

NURSE 7220 Leadership in Practice: 3 semester hours

This course provides students with the opportunity to develop and refine critical leadership skills. Emphasis is on using models and theories that facilitate inter-professional collaboration to achieve optimal health outcomes. The focus is effective communication and leadership methods necessary to establish successful inter-professional teams. Students will enhance skills in verbal, written and electronic communication; team leadership; and creating and sustaining health related initiatives. Through advanced understanding of the inter-professional dimension of health care, students will facilitate collaboration and remove barriers to providing safe, timely, effective, efficient, equitable and patient centered care in a complex environment.

NURSE 7230 Epidemiology: 3 semester hours

Prerequisite: NURSE 6000 or equivalent within 5 years. This course introduces the fundamental principles and methods of epidemiology. Topics to be covered include the historical perspective of epidemiology, measures of disease occurrence and of association, clinical epidemiology, disease screening, causal inference, and analytic study design. Students will design epidemiologic studies, and utilize common statistical tests. Emphasis will be placed on case control studies, cohort studies, clinical epidemiology, and infectious disease epidemiology.

NURSE 7240 Health Informatics: 3 semester hours

Prerequisites: Consent of the Instructor. This course explores information systems and computer technologies that can improve the health of individuals, families, communities and populations by optimizing information management and communication. Focus areas include the electronic medical record, technologies to improve patient safety, standards for privacy and security, tele-health systems to improve healthcare access to underserved populations, use of web-enhanced technologies for research translation, and strategies to provide data for decision making and evident based databases. Emphasis is placed on developing competence in technology use for the purpose of program evaluation, establishing healthcare quality, and improving healthcare delivery to diverse populations in complex healthcare settings.

NURSE 7250 Frameworks for Health Care Delivery and Policy: 3 semester hours

Prerequisites: None. This course is designed to provide students with a framework to understand the system through which health care is delivered and financed. The cultural and psychosocial contributors to health care are discussed. The focus is to provide students with knowledge about complex health care systems, government and private reimbursement structures, quality and patient safety initiatives, legal mandates and policy issues affecting health care delivery.

NURSE 7260 Program and Practice Evaluation: 3 semester hours

Prerequisite: None. Includes principles and procedures for assessing the quality and effectiveness of programs, projects and materials related to planned interventions and systems changes in health settings. Using a logic model, practice and programs will be evaluated and presented to agencies. Values, ethical issues and political issues, particularly those relevant to race/ethnicity and gender will be emphasized.

NURSE 7270 Policy Application for Improved Health Outcomes: 3 semester hours

Prerequisites: NURSE 6106 or equivalent and NURSE 7230. Students learn how to effectively translate and disseminate knowledge from nursing and other health sciences to policy makers and stakeholders in order to form collaborations to affect change at various levels of the policy process. Topics to be covered include policy analysis, policy development, collaboration and negotiation specific to the policy process, building social and political capitol and garnering resources to assure effective policy implementation. Students will utilize population health data, policy analysis, and policy development skills to define, shape and implement culturally competent health policy.

NURSE 7291 DNP Clinical Scholarship I: 3 semester hours

Prerequisites: All DNP coursework or Consent of Instructor. This experience provides additional opportunities for practice expertise development to create change in a targeted population and complex healthcare environments. Students will develop skills to assess and diagnose healthcare systems and identify evidenced-based strategies to improve health outcomes. Included in this experience is 150 hours of immersion in their population focused scholarly project.

NURSE 7292 DNP Clinical Scholarship 2: 3 semester hours

Prerequisites: NURSE 7291. This experience provides additional opportunities to develop clinical preventative strategies to create change in a targeted population and complex healthcare environments. Students will implement evidenced-based projects to improve health outcomes. Included in this experience is 200 hours of immersion in their population focused scholarly project.

NURSE 7293 DNP Clinical Scholarship 3: 3 semester hours

Prerequisites: NURSE 7292. This experience provides additional opportunities to evaluate clinical preventative strategies with a targeted population in a complex healthcare environment. Students will evaluate evidenced-based clinical projects and health outcomes. Included in this experience is 200 hours immersion in their population focused scholarly project.

NURSE 7299 DNP Seminar: 1-3 semester hours

Prerequisites: All DNP required course work or Consent of Instructor. This seminar provides students with the opportunity to synthesize and analyze knowledge within the context of the emerging DNP role. Analysis of practice issues may include reflective practice, collaboration, health systems technology, ethics and policy.

NURSE 7300 Prevention of Injury and Disability: 3 semester hours

Prerequisites: Graduate status or consent of instructor. This course will examine trends in injury and disability nationally and internationally, relevant theories and conceptual models, the definition and measurement of key concepts, and analysis of interventions proposed for preventing injury and mitigating disability. The role of information and computer technologies in the management of disability will also be considered. Specific content will include age-related injury and disability, disability associated with cardiovascular and other chronic diseases, and the psychosocial contexts of disability, including traumatic stress and its outcomes.

NURSE 7401 Research Institute I: 2 semester hours

Prerequisites: Admission to Doctorial Study in Nursing. This course provides an introduction to the process of becoming a research scientist or translational investigator. Content will include the responsible conduct of research, its core elements, relevant policies and procedures, and relevant research. This course also includes the culture of nursing, literature reviews, scholarly writing, technology in the research process, developing a program of scholarship and effective time management.

NURSE 7403 Developer of the Nurse Scientist: 3 semester hours

Prerequisite: Admission to doctoral study in nursing. This course addresses the role of the PhD-prepared nurse as scientist, leader, academician, and policy maker. Students will analyze strategies for lifelong learning and development as nurse scientists and will explore avenues for building their programs of scholarship, funding opportunities, and contributing to nursing science in policy and clinical practice. Students will examine ways to collaborate effectively in order to improve health care and health outcomes.

NURSE 7480 Guided Nursing Research Seminar: 1-6 semester hoursPrerequisite: Consent of instructor Provides opportunity to work in collaboration with faculty and peers on a focused research topic relevant to nursing.

NURSE 7481 Development Of Nursing Science And Theory: 3 semester hours

Prerequisite: Admission to PhD Program. This course focuses on the discipline of nursing, including the evolution of the state of scientific inquiry and knowledge development in nursing. The course includes the aims of nursing science, the nature of nursing knowledge and scientific theories, and a discussion of relationships among theory, research, method, and practice. Students engage in constructive dialogue as they begin to conceptualize nursing phenomena in their area of interest.

NURSE 7488 Qualitative Methods In Nursing Research: 3 semester hours

Prerequisites: Admission to PhD program. Examines the relationship between theoretical and philosophical perspectives and selection of appropriate methodologies in research design. Critically explores issues related to innovations in traditional qualitative designs and emerging technologies, rigor and validity, and role of interpretive research in nursing science.

NURSE 7490 Advanced Nursing Research Designs and Methods: 3 semester hours

Prerequisite: Admission to the PhD program. This course focuses on development of the research plan including issues in sampling, design, and implementation nursing research. Students will evaluate research methods to answer research questions in their area of interest. Content includes design and analysis issues affecting validity, examination of measurement techniques for assessing validity, reliability, structure of data collection instruments, and criteria for instrument selection. A research proposal will be prepared.

NURSE 7491 Advanced Nursing Theory Development And Validation: 3 semester hours

Prerequisite: Admission to PhD program. This course focuses on a systematic study of contemporary nursing science and related theories in knowledge development, and the application of theory construction and validation strategies to specific nursing phenomena of interest. Students create and critically examine theoretical frameworks and models, with emphasis placed on constructing and testing theoretical statements.

NURSE 7492 Advanced Quantitative Measurement And Analysis Of Nursing Data: 3 semester hours

Prerequisite: NURSE 7490 This course focuses on measurement techniques and their applications in nursing research. Content includes examination of measurement and techniques for assessing validity, reliability, and structure of data collection instruments; application of advanced statistical principles; application of strategies for data manipulation and analysis; and discussion of measurement limitations and data analysis solutions.

NURSE 7493 Psychometrics: 3 semester hours

Prerequisites: NURSE 7490 and doctoral level statistics course and/or consent of instructor. This course focuses on application of psychometric theories and practices related to instrumentation in nursing research. Basic methodologies and techniques for constructing, testing, and evaluating instruments will be discussed and applied. Content will focus on theoretical foundations of measurement, item construction, instrument design, item analysis, validity and reliability assessment. Criteria for evaluating existing instruments will also be discussed.

NURSE 7498 Doctoral Seminar: 1-12 semester hours

Prerequisite: Consent of instructor Presenation and discussion of pertinent methodological and clinical issues related to doctoral research.

NURSE 7499 Dissertation Research: 1-12 semester hours

Prerequisite: All required course work; successful completion of comprehensive examination. Investigation of an advanced nature culminating in successful defense of dissertation. Continuous registration is required.

College of Optometry

This section contains an abbreviated version of the College of Optometry Bulletin. Some information is omitted.

For the most complete and accurate information regarding the Optometry program at UMSL, please go to the College of Optometry Home Page.

General Information

The UMSL College of Optometry enrolled its first class in 1980, graduating 32 students in May 1984. The College is located on the South Campus complex of the University of Missouri-St Louis at 7800 Natural Bridge Road. A five-story building houses the College's classrooms, laboratories, research facilities, administrative offices, library, and the Center for Eye Care campus facility (the University Eye Center).

The College of Optometry is a member of the Association of Schools and Colleges of Optometry (ASCO) and is accredited by the Accreditation Council on Optometry Education (ACOE).

The Doctor of Optometry (O.D.) Degree

A student who satisfactorily completes all four years of the professional curriculum will be eligible to receive the Doctor of Optometry degree. The training and clinical experience optometry students receive at UMSL qualifies graduates to practice optometry in any state in the nation.

Center for Eye Care

The Center for Eye Care provides a patient care environment for upper level optometry students and post-doctoral residents. The Center for Eye Care includes four locations: the University Eye Center on the UMSL South Campus, the Optometric Center in the Central West End of the city of St. Louis, and the East St. Louis Eye Center on the campus of East St. Louis Community College Center. These and other affiliated health centers in the St. Louis area provide an instructional setting where student interns are exposed to a wide variety of patients under the direct supervision of College of Optometry faculty. Equally important is that these Centers provide exemplary, comprehensive and state-of-the-art optometric care to their patients.

The Centers provide a full range of optometric services including adult primary eye care, contact lens, pediatrics, binocular vision, low vision, and eye health management. Specialized testing of color vision and electrophysiology are also available.

Situated in Missouri's largest metropolitan area, the College of Optometry enjoys the region's strong community and professional support. The urban setting offers many opportunities for outreach programs, expanding the scope of optometric education and making possible a highly diverse programs of clinical training. Another asset of the College is its proximity to the national headquarters of the American Optometric Association, located just a few miles from campus.

The curriculum leading to the doctor of optometry degree is a four year, fulltime program of study. The first year of the professional curriculum emphasizes basic and biomedical sciences and introduces students to optics of the visual system. The second year pertains to vision science and instruction in clinical examination techniques. The third year emphasizes patient care and introduces the student to specialty areas within optometry, such as contact lenses, pediatrics and geriatric vision care, binocular vision and vision therapy, and low vision rehabilitation. The

second and third years also include course work and clinical instruction in ocular disease and pharmacology. The fourth year includes six rotations through the externship program, giving the student added experience in the management of eye diseases, as well as valuable experience in other optometric clinical specialties.

Fourth-Year Externship Program

In addition to the patient care experiences available through the University Eye Center, Optometric Center, the East St. Louis Center, the College of Optometry also has a diverse Externship Program. Students must receive approval from the faculty and the Director of Externships for assignments to each Externship site. This program allows fourth-year students to spend a portion of their final year of training in a variety of patient care environments (i.e., military bases, Veterans Administration Hospitals, Indian Health Services Hospitals, various specialty practices and private practices).

These eight (8) week externships are selected and scheduled with consideration given to the individual student's interest, needs and future practice intentions. Externship Rotations are located at a number of domestic and international sites. In this program, students leave the academic environment and begin working with selected eye care professionals while continuing to be monitored by the faculty through bi-weekly reports of patient encounters, therapies, and activities. The externship rotations are designed to give students exposure in the following areas:

- Pediatric/Binocular Vision Patient Care
- Contact Lens Patient Care
- · Low Vision Patient Care
- General (Primary Optometric) Patient Care
- Refractive Management Patient Care
- Eye Health Management Patient Care
- · Geriatric Patient Care
- · Sports Vision Patient Care
- · Optometric Rehabilitation Patient Care

Student Organizations & Activities

All optometry students enrolled in the University of Missouri--St. Louis College of Optometry are eligible for membership in the various student optometric associations, including The Missouri Optometric Student Association (MOSA) and The American Optometric Student Association (AOSA). Through these organizations, and many others, students become involved in local and national optometric activities. The organizations provide an environment for the cultivation of professional leadership skills, and members have organized and participated in a variety of community service activities, including community health screenings and vision care to residents of nursing homes, convalescent hospitals, and mental institutions. Furthermore, optometry students have formed local chapters of Student Volunteer Optometric Services to Humanity (SVOSH), an international organization of optometrists providing free vision care to people in impoverished nations, and the National Optometric Student Association (NOSA), which strives to recruit minority students into optometry and encourages retention of minority students.

In addition to the many activities through the College of Optometry, optometry students are able to take advantage of all the activities provided by the university to the entire university community. These include intramural sports, movies and cultural activities, a modern, fullyequipped

fitness center and gymnasium, and access to many social and cultural opportunities in St. Louis at reduced cost.

Pre-Optometry Programs

The University of Missouri-St. Louis offers a four-year program of study leading to the doctor of optometry degree; this professional degree is administered by the College of Optometry. It is one of only 20 accredited programs in the United States and the only one in the state of Missouri. This program, as a result, makes UMSL an ideal institution for preoptometry education. Various programs are available for pre-optometry as noted below.

Students may pursue a traditional 4 + 4 program, which is a bachelor's degree followed by the four-year graduate optometry program. In this case, students may pursue any bachelor's degree, as long as the pre-optometry requirements are met in biology, chemistry, mathematics, physics, psychology and English.

Alternatively, the Department of Biology, the Department of Physics and Astronomy, and Department of Chemistry sponsor 3+4 Programs for the UMSL College of Optometry, for which a student may be admitted to the College of Optometry after completing three years (90 semester hours) of study in their respective majors and successful completion of the Optometry Admission Test (OAT). (See your specific department for undergraduate degree requirements.)

The Pierre Laclede Honors College and the College of Optometry also offer the Scholars Program, which allows a student to complete both the undergraduate and doctor of optometry degrees in seven years. To qualify for this program, a student must be a senior in high school; score a minimum composite of 27 on the ACT; and be accepted to the UMSL Pierre Laclede Honors College program. For more information about the Scholars Program, contact the Pierre Laclede Honors College, (314) 516-7769.

For the programs described above (Scholars or 3+4), the undergraduate degree is granted when the student satisfactorily completes the first year of the professional program and has met all of the conditions for the specific undergraduate degree for which the student has applied.

- 1. All general education requirements and all requirements for the biology or physics major, or other major, except electives, must be completed.
- Any deficiency in required courses must be remedied with courses taken at UMSL within three years after entering the College of Optometry.
- Up to 6 hours from the College of Optometry may be substituted for an undergraduate degree in Biology with approval of the Department of Biology.
- 4. Up to six hours is used to satisfy degree requirements in biology, and 14 hours in physics to complete the B.S. in Physics degree.

For more information, contact the Department of Biology, (314) 516-6200 or the Department of Physics and Astronomy at (314) 516-5931. The Department of Chemistry offers a similar program, and may require summer research in order to complete the degree requirements for a B.A. or B.S. in Chemistry. For more information, please contact the Department of Chemistry and Biochemistry at (314) 516-5311.

In some cases, students are admitted to the optometry program without a degree.

Note: MATH 1800, Analytical Geometry and Calculus I must be taken in the first semester for most 3+4 or Scholars Programs.

Admission Requirements

- · Semester:
 - English 2
 - Biology (including laboratory)¹ 3
 - Physics (including laboratory) 2
 - Chemistry³
 - General (including laboratory) 2
 - · Organic (including laboratory) 1
 - Mathematics⁴
 - Calculus 1
 - · Statistics 1
 - Psychology 2
 - Liberal Arts 2
- Quarter :
 - English 3²
 - Biology (including laboratory)¹ 4
 - Physics (including laboratory) 3
 - Chemistry³
 - General (including laboratory) 3
 - Organic (including laboratory) 2
 - Mathematics⁴
 - Calculus 1
 - · Statistics 1
 - Psychology 2
 - Liberal Arts 2²
- One semester (or one quarter) of Microbiology with laboratory is a requirement. One semester of Anatomy or Physiology is recommended.
- Courses may be taken and accepted for prerequisite course work AP (Advanced Placement) without a grade if the student receives a 320 or higher on the Reading Comprehensive section of the OAT examination (see below, Admission Test and has a GPA of 3.0.
- One semester of Biochemistry, Cell Biology or Human/Comparative Physiology is recommended.
- Trigonometry as a prerequisite course for Calculus must be completed, either in high school (official high school transcripts required as proof), or college.

The College of Optometry uses a rolling admissions process. All courses used to satisfy the admission requirements must have been taken at an institution fully accredited by one of the Department of Education regional accreditation bodies. Specific prerequisite courses must be taken for a letter grade; they cannot be taken as an audit or on a pass/fail or satisfactory/unsatisfactory basis. Applicants must have completed 90 semester or 135 quarter hours (the equivalent of three years of college education) before the start of classes. In order to process financial aid awards it is strongly recommended that students complete all prerequisite courses the spring prior to admission. The applicant cannot apply more than 60 semester hours or 90 quarter hours which were earned at a two-year institution toward the credithour requirement. Applicants holding a bachelor's degree will be given preference over applicants with similar

academic credentials who do not have a degree. Applicants to the college come from a variety of undergraduate backgrounds, such as biological sciences, chemistry, psychology, education, and business.

Admission Test

Students should work with their undergraduate advisors as well as their academic advisor in optometry, to insure that all pre-requisite courses are taken prior to taking the Optometry Admission Test (OAT), which is required prior to being offered an interview for consideration for admission to the College of Optometry.

All applicants are required to take the Optometry Admission Test (OAT). The OAT is now offered through computer sites. As the computerized version may be scheduled at any time, please plan to take the OAT by June of the year you plan to apply in order to be considered for early admission. Official test scores are acceptable for up to three years from the testing date.

Applicants are encouraged to take the examination by June of the year of application to the College of Optometry. If applicants wish to enhance their scores, the examination may be repeated. For OAT information, contact:

Optometry Admission Testing Program

211 East Chicago Ave. Suite 1846 Chicago, IL 60611 (312) 4402693 http://www.opted.org

To apply to take the OAT, please click on the OAT link on www.opted.org (http://www.opted.org) (on right).

Application Procedures

The Admissions Committee begins to process applications on July 1 for the class entering the following year. An applicant's file will be considered complete and ready for consideration by the Admission Committee when the following material has been received:

*Asterisked items are processed by Centralized Application Service:

- *Application through Centralized Application Service.
- Supplemental Application through UMSL with a \$50.00 non-refundable application fee.

Please send directly to OptomCAS:

- *Official high school and college transcripts, followed by updated transcripts as they become available. (Exception: graduates of international programs see deadline requirement for all transcripts).
- *A composite evaluation prepared by the preprofessional advisory committee at the educational institution the applicant is attending.
 Those applicants not currently attending college or who are at an institution that does not offer a committee evaluation will be required to submit three letters of recommendation(which includes one letter of recommendation from an optometrist who is not related to you).

Students must release official Optometry Admission Test (OAT) results to UMSL.

Official transcripts not already submitted to OptomCAS must be mailed from every college attended, regardless of whether or not credit was earned, once an applicant has accepted our offer of admission.

Letters of recommendation must be emailed or mailed directly to the Centralized Application Service center by the originator. It is the applicant's responsibility to ensure all application materials are received by the Centralized Application Service center by February 15 (International students: transcripts by December 15 year prior) to be considered for admission to the class entering in August of the same year. Facsimile (faxed) application material will be accepted or acknowledged. Application material received after February 15 will not be evaluated for the class entering in August of the same year. To insure that all materials will be processed in time, we strongly encourage students to complete his/her OptomCAS application and insure all transcripts and letters of recommendation are received at OptomCAS prior to January 15. To be considered for merit scholarships, there is an early enrollment deadline. All materials must be received by January 5 in order to be considered for the early application deadline. Applications received after that time will still be considered for admission but not additional awards, e.g. merit scholarships, state seat contracts.

International Students

International students whose native language is not English and who have spent less than two of the last three years in an English-speaking country are required to submit scores from an internationally accepted standardized examination before a decision is made on admission.

To complete their credential file, applicants are required to furnish original and official transcripts before December 15th the year prior to admission from each school and college attended both in this country and abroad. The Educational Credentials Evaluators, Inc. or the World Education Services must evaluate all foreign school and college transcripts and their evaluation submitted as part of the application requirement. For information contact:

Educational Credentials Evaluators, Inc.

Post Office Box 514070 Milwaukee, WI 53203-3470 (414) 289-3400

Fax: (414) 289-3411 Email: eval@ece.org Web site: http://www.ece.org

World Education Services

P.O. Box 5087 New York, N.Y. 10274-5087 (212) 966-6311

Fax: (212) 939-6100 Email: info@wes.org

The University of Missouri-St. Louis maintains an Office of International Student Services to assist applicants who have been offered admission. All new international students are required to attend a formal orientation program before matriculation. For more information, contact:

University of Missouri-St. Louis

Office of International Student Services One University Blvd. St. Louis, MO 63121-4499 (314) 516-5229

Email: iss@umsl.edu

Selection Procedures

Applications are reviewed beginning in August with interviews scheduled and initiated starting in September. The college uses a 'rolling admissions' process that allows qualified applicants to be admitted on an ongoing basis until the class is filled. Therefore, applicants are encouraged to apply as early as possible to ensure full consideration for admission.

The Admissions Committee has the responsibility to review and evaluate all applicants and select the best qualified candidates. The committee considers: an applicant's overall grade point average, the grade point achieved in the sciences, any grade trends over the years in college, and the scores on the OAT. Concurrently, candidates are evaluated on less quantitative measures such as extracurricular activities and interests, related or unrelated work experience, written narrative, and letters of recommendation.

Those applicants whom the committee feels to be most competitive will be invited for an on-campus interview. The on-campus interview facilitates an assessment of the applicant's communication skills, interests, motivation, and personal characteristics. In addition, the on-campus interview allows the applicant to tour the facilities, meet with currently enrolled students, present questions regarding financial aid and housing, and learn more about the University of Missouri-St. Louis and the College of Optometry. From this group of interviewed applicants, the entering class of approximately 44 students will be selected.

Once an offer of admission is made to an applicant, the applicant will be contacted by OptomCAS to complete a background check. We encourage applicants to review the criteria for background check on the OptomCAS website. www.optomcas.org (http://www.optomcas.org)

The policies of the University of Missouri-St. Louis and the College of Optometry comply with the provisions under those laws that forbid discrimination on the basis of race, color, religion, sex, sexual orientation, national origin, age, disability or status as a Vietnam era veteran.

Admission Process

Notices of acceptance may be received as late as July of the year in which the students enter the program. If acceptance to the class is conditional, the terms of the condition must be completed prior to matriculation. Applicants who have indicated that degree requirements will be completed prior to matriculation, and who have been selected for admission, may receive a conditional offer of acceptance contingent upon completion of the degree.

Students offered admission have 15 days from the date on the offer of admission letter to make a required \$500 acceptance deposit. The \$500 deposit will be credited toward tuition when the student matriculates. If the student withdraws from consideration prior to May 15th, \$250 will be refunded. After May 15th, no refunds will be given. There is a \$250 administrative fee.

A certain number of applicants are placed on an alternate list. If an applicant who has been offered admission declines the offer, their position will be allocated to the next individual on the alternate list.

Notification of denial is sent by mail. Applicants who do not receive an offer of admission may reapply the following year through the Centralized Application Service.

Financial Aid

The University of Missouri-St. Louis maintains an Office of Student Financial Aid to assist students with the cost of their education.

Financial assistance is available in the form of loans, scholarships, and work-study. Funds for these programs are available from federal, private, state, and institutional resources. To apply for financial aid, students must complete a Free Application for Federal Student Aid (FAFSA). Preference will be given to those students who have completed the FAFSA by April 1. Preference means that the Student Financial Aid Office will begin awarding FWS (Federal College Work-Study), and maximum government allowable funding under subsidized loans. A completed financial aid application means that the Financial Aid Office has received an official Student Aid Report from the Federal Processing Center. Information about Federal loan programs and FAFSA are available at www.fafsa.ed.gov

The Student Financial Aid Office maintains a Web site at www.umsl.edu/services/finaid, where students will find useful information along with the ability to contact the office electronically via e-mail. Also included is a scholarship directory that is updated annually.

To be considered for all university scholarships offered through the Financial Aid Office, a student must be accepted for admission.

Many state optometric associations and their auxiliaries offer scholarships and grants. Application is generally made directly to the state association or auxiliary and selection is generally made on the basis of state residence and other criteria. Information may be obtained by writing to the various state optometric associations and/or auxiliaries.

The College of Optometry will provide additional information about scholarships and the college' Handbook of Loans, Scholarships, Grants, and Awards to applicants after being admitted. Many of the College's scholarships are listed on the College Website.

Fees

Detailed information regarding current fees and residency regulations is furnished on the UMSL Cashier's website.

The university reserves the right to change fees and other charges at any time without advance notice.

Education Fees

All students enrolled in the University must pay educational fees based on either the schedule for Missouri residents or the schedule for non-residents. All optometry students will be required to pay the non-resident educational fee if they do not meet the University of Missouri residency requirements at the time of enrollment.

For current fees and costs, please check the fee section of the Cashier's Website and be certain to select appropriately optometry resident / nonresident.

A Summer Session is required between the third and fourth professional year

Other Required Fees

All students are required to pay the following fees each semester: Information Technology Fee; Student Facility, Activity, and Health Fee; and, if needed, Parking Fee. Please refer to the Fees Section of the Cashier's website for current fees and caps on fees.

Student Health Insurance (optional)

An Accident and Sickness Insurance plan is available to students and their dependents. Information concerning premiums and coverage is available upon request from University Health Services or call (314) 516-5671. For students registered at UMSL College of Optometry, health insurance is available through the American Optometric Student Association.

Nonresident Students

Optometry students who do not meet the residency requirements must pay the nonresident educational fee according to the schedule above. A definition of "residency" is outlined in Tuition and Residency Rules, available in the cashier's office. (314-516-5151) Students are responsible for registering under the proper residence and paying the proper educational fees.

Currently, twelve nonresident positions for all four years are allocated by state reciprocal agreements for residents of Kansas. Individuals who are admitted under these agreements will pay reduced non-resident fees. To apply for this award, applicants must be certified as a bona fide Kansas resident and meet financial need (FAFSA). Seats are not offered until after FAFSA data is available. Additionally, Kansas residents accepting a seat are required to return to Kansas to practice following graduation or completion of a residency program. For additional information, contact:

Kansas Board of Regents

Kansas Optometry Service Scholarship 1000 S.W. Jackson St., Suite 520 Topeka, KS 66612-1368 (785) 296-3518. Kansas Board of Regents Website

Four-Year Professional Degree (O.D.) Curriculum

Curricular Outcomes Entry Level Standards

Doctors of Optometry must have an established knowledge of the basic and clinical sciences in order to provide quality eye and vision care to their patients. The academic foundation must be broad and include the biological, medical, vision and optical sciences, as well as a basic understanding of the health care delivery system. A Doctor of Optometry must recognize the dynamic nature of knowledge and possess the commitment and skills needed to responsibly assess and apply new information and treatment strategies throughout their career.

The UMSL College of Optometry shall ensure that before graduation each student will effectively utilize and demonstrate a working knowledge in patient care within each of the following areas:

- basic body systems, with special emphasis on the ocular and visual system and their interrelationships to the body as a whole;
- the impact of genes and their interaction with behavior, diet and the environment on human health;
- the various processes and causes that lead to dysfunction and disease and the effect that these processes can have on the body and its major organ systems, with special emphasis on the ocular and visual systems; the mechanisms of actions of the various classes of pharmaceutical agents, including injectable agents, their interactions, along with their safe and effective use for the treatment of disease and conditions affecting the eye and visual system;

- the structures and processes contributing to the development of refractive error and other optical or perceptual abnormalities of the visual system;
- the optics of the eye and ophthalmic lens systems (including spectacles, contact lenses, and low vision devices) used to correct refractive, oculomotor and other vision disorders;
- visual development and vision function with respect to deviation and enhancement of conditions such as, but not limited to, strabismus, amblyopia, oculomotor, accommodation, and visual perception;
- vision therapy and other rehabilitative methods used for the management of common visual disorders;
- the psychosocial dynamics of the doctor/patient relationship and an understanding of the social, psychological, and economic forces affecting diverse patient populations;
- the practice management structure and strategies as they pertain to various practice settings;
- the critical elements of verbal and written communications and understanding of the need for clear and appropriate documentation of patient encounters;
- · the concepts of refractive surgery and its management;
- the conscientious use of current best practices in patient care decision making;
- · a broad-based multidisciplinary understanding of patient care;
- · an appreciation for and a commitment to lifelong learning;
- information management and technology in the delivery of eye and health care;
- and an understanding of and commitment to uphold the ethical obligations imposed by the tenets of the Optometric Oath of Practice.

Grades

All courses taken for credit in the professional program must be passed with a "C-" or better in order for a student to qualify for graduation. The College of Optometry does not recognize a "D" grade for courses taken for degree credit; and for a student enrolled in a patient care course. Therefore, any grade lower than a "C-"will be recorded as an "F" and have "0" grade points. Furthermore, in order to qualify for graduation, a student must be in good academic standing and the cumulative professional Grade Point Average (GPA) must be 2.50 or higher. Students must submit evidence to the Office of Student Services that they have taken the 3 part NBEO examinations prior to graduation. Such evidence may include a copy of the score report received from NBEO.

To assure graduating at the end of a specific semester, all work for that semester and any delayed grades from previous semesters must be completed with the grades sent to the Office of Student Services no later than the official date for submission of final semester grades.

Time limitations

All of the required courses during the first six (6) semesters of first course enrollment and all required courses for the O.D. degree must be completed within six (6) years after the first course enrollment.

Continuing Education

The College of Optometry offers continuing education programs for optometrists throughout the Midwest region as well as nationwide. Courses on nutrition, management of ocular diseases, ocular anomalies, and visual skills are held on a frequent basis. In addition to College of Optometry faculty, optometric specialists, medical educators, and

researchers have input into course development as well as participation in course presentations. All CE courses offered by the college are COPE approved and accepted by those states requiring continuing education credit for re-licensure.

Continuing Education course information may be obtained by contacting:

University of MissouriSt. Louis College of Optometry

Office of Continuing Education One University Blvd. St. Louis, MO 631214499 (314) 5165615

Career Outlook

Doctor of Optometry Degree

According to the American Optometric Association, Doctors of Optometry (OD's) are the independent primary health care professionals for the eye. Optometrists examine, diagnose, treat, and manage diseases, injuries, and disorders of the visual system, the eye, and associated structures as well as identify related systemic conditions affecting the eye.

- Doctors of Optometry prescrive medications, low vision rehabilitation, vision thereapy, spectacle lenses, contact lenses, and perform certain surgical procedures.
- Optometrists counsel their patients regarding surgical and non-surgical options that meet their visual needs related to their occupations, avocations, and lifestyle.
- An optometrist has completed pre-professional undergraduate education in a college or runiversity and four years of professional education at a college of optometry, leading to the doctor of optometry (O.D.) degree. some optometrists complete and optional residency in a specific area of practice.
- Optometrists are eye health care professionals state-licenced to diagnose and treat diseases and disorders of the eye and visual system.

--Approved by the AOA Board of Trusteees, 2012

As primary eye care providers, Doctors of Optometry are an integral part of the health care team and an entry point into the health care system. They are skilled in the co-management of care that affects the eye health and vision of their patients and an excellent source of referral to other health care professionals.

The scope of optometric practice requires an understanding of the development and maintenance of vision from infancy through adulthood, and the therapeutic and rehabilitative methods required to care for eye and vision abnormalities that affect people of any age.

Optometry is the largest eye care profession and one of the largest independent health care professions in the United States. Currently, some 34,000 Doctors of Optometry practice in America. They are widely distributed across the nation, practicing in more than 7,100 different municipalities. In more than 4,300 of these communities, they are the only primary care provider. As such, Doctors of Optometry provide the major portion of primary eye care services in the United States.

Studies have indicated that a ratio of one practicing Doctor of Optometry to every 7,000 people (a ratio of 14.3 practicing doctors of optometry

per 100,000 population) is a reasonable average for the United States. Despite recent growth in the profession, few states meet this criterion.

As our society becomes more technically oriented, vision requirements become more exacting. The number of persons needing professional help for reading and other nearpoint visual tasks, and computer usage among all people including young children, is steadily growing. Increased demands for vision care result not only from population growth but also from increased understanding of how quality vision relates to industrial production, student achievement, adjustments to aging, and other areas crucial to modern society.

As a result the patients have more varied and challenging needs. On any given day, a Doctor of Optometry could be involved in restoring functional vision to a partially sighted patient; fitting glasses for a child whose vision problem is affecting academic achievement; treating an eye infection with antibiotics; improving the function of a patient's eyes through vision training; helping an elderly patient in a nursing home cope with changing vision through critical eye health education; co-managing eye or systemic health problems with a physician specialist; and performing comprehensive eye examinations for those who need glasses or contact lenses to correct astigmatism, nearsightedness, and numerous other vision problems.

The practice of optometry offers independence, flexibility, and diversity. Doctors of Optometry have a wide range of modes of practice. They may choose to practice in the inner cities, suburbs, and rural areas. Opportunities exist for solo practice, associateship, optometric or multidisciplinary group practice, government or military service, clinical or hospital practice, teaching, and research.

Optometry is a rewarding career, both economically and personally. Based on data from the Bureau of Labor Statistics and surveys by professional associations, optometry is one of the top 10 income earning professions in the country.

Optometry Courses

OPTOM 6400 Sensory Processes And Perception: 3 semester hours

Prerequisite: Graduate standing in P.O. or consent of instructor. Current views on the encoding of various aspects of the visual stimulus (intensity, space, time, and wavelength) that give rise to the perceptions of brightness, contour, motion and color will be considered in this course. The psychophysical tools available to examine visual encoding will be emphasized. Other topics will include binocular vision and depth perception, information processing approaches to visual pattern recognition, and the similarities and interactions of the visual system with the other sensory modalities.

OPTOM 6401 Visual Optics: 3 semester hours

Prerequisite: Graduate Standing in P.O. or Consent Of Instructor. This course deals with the optical properties of the eye. Included are a review of general optics including physical optics, paraxial and nonparaxial geometric optics, image quality, radiometry and photometry, and optical instrumentation. Topics in visual optics will include schematic eyes, measurement of the refractive errors, visual axes, spectral absorption by the ocular media, and the optical performance of the eye.

OPTOM 6402 Ocular Anatomy And Physiology: 3 semester hours

Prerequisite: Graduate Standing in P.O. or Consent Of Insturctor. The structures and fluids of the eye and orbit, their interactions and functions are considered in this course. Specific topics include the eyelids. Tearfilm, conjunctiva, cornea. Iris, ciliary body, vasculature, aqueous humor, vitreous body, and the retina.

OPTOM 6403 Psychophysical Methods And Experimental Design: 3 semester hours

Prerequisite: Graduate Standing in P.O. or Consent of Instructor. Advanced methodology for the design and analysis of experiments in a variety of areas of visual science are considered in this course. Both basic and applied topics will be considered. Special emphasis will be placed on psychophysical methodology, signal detection analysis, and scaling techniques.

OPTOM 6404 Sensory Neuroscience: 3 semester hours

Prerequisite: Graduate Standing in P.O. or Consent of Instructor. This course will deal with the neural organization of the sensory system with an emphasis on vision. It will include a review of general neurophysiology and neuroanatomy as they relate to the processing of environmental stimuli into neural information as well as experimental approaches utilized in neurobiology. Topics to be covered include: neural transduction and sensory coding by receptors and neurons, constraints on perception defined by the functional organization of the nervous system, sensory development and plasticity as related to neural development, and evolution of sensory systems.

OPTOM 6405 Neuroanatomy: 5 semester hours

Prerequisite: Graduate standing. Detailed gross and microscopic anatomy of the human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system. Students may not receive credit for both OPTOM 6405 and OPTOM 8040.

OPTOM 6406 Geometric Optics: 5 semester hours

Prerequisite: Graduate Standing. The principles of geometrical optics as applied to refracting and reflecting surfaces, thin lenses, thick lenses, and lens systems. The optics of various ophthalmic instruments and techniques will be examined. A student may not receive credit for both OPTOM 6458 and OPTOM 8020.

OPTOM 6458 Noninvasive Assessment Of The Visual System: 2 semester hours

Prerequisite: Completion of Core or Consent of Instructor. This course reviews historical topics and emphasizes current topics in the noninvasive clinical and laboratory assessment of the normal and diseased human visual system. Topics will range from delineation of disease mechanisms (such as retinal and choroidal disorders, cataract, corneal disease, glaucoma, strabismus and amblyopia) to the design and assessment of new techniques and technology for evaluating the function of the visual system (e.g. advances in imaging techniques, fluorophotometry, perimetry, laser interferometry, psychophysics, etc.).

OPTOM 6459 Introduction To Computer Programming For Vision Research: 3 semester hours

PREREQUISITES: Graduate standing in Physiological Optics or consent of instructor. This course will expose the student to fundamental concepts of computer programming. The Prograph programming language will be used on the Macintosh computer to illustrate procedural and object-oriented programming philosophies. Examples and assignments will focus upon research applications in vision science.

OPTOM 6470 Individual Studies In Physiological Optics: 2 semester hours

Prerequisite: Consent of Instructor. This course designation can be used to cover a variety of topics in visual science. In general, very specific topics of limited interest will be presented as individual studies. Individual studies and advanced topics enable the student's course of study to be sharply tuned to his or her major area of interest.

OPTOM 6490 Graduate Research In Physiological Optics: 1-15 semester hours

Prerequisite: Consent Of Instructor. Research In An Area Selected By The Student In Consultation With Faculty Members. May Be Taken To A Maximum Of Ten Hours For The M.S. And 15 Hours For The Ph.D.

OPTOM 6497 Interdisciplinary Geriatric Care: 2 semester hours

Prerequisites: Consent of Instructor. Same as Gerontology 6497. Interdisciplinary approaches that address the medical and social needs of the elderly will be examined. Information about geriatric care and social issues affecting the well-being of older adults will be provided. Clinical, theoritical, and educational perspectives will be presented.

OPTOM 6499 Current Topics In Optometry And Vision Science: 1 semester hour

Prerequisite: Consent of instructor this seminar course examines and analyzes current publications in eye care and vision research.

OPTOM 8010 Anatomy, Physiology And Disease Processes I: 5 semester hours

First in a two-semester course sequence that will detail the general anatomy of the human body along with the histology (microanatomy), physiology and disease processes of major organ systems. Course content will be presented in a modular format. Areas of discussion will include cardiovascular, respiratory, endocrine, digestive, reproductive, integumentary and peripheral and autonomic nervous systems. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

OPTOM 8020 Basic and Clinical Optics I: 4 semester hours

Prerequisites: Consent of instructor. The principles of geometrical optics as applied to refracting and reflecting surfaces, thin lenses, thick lenses, and lens systems. The optics of various ophthalmic instruments and techniques will be examined.

OPTOM 8030 Introduction to Optometry: 1 semester hour

An introduction to the profession of optometry, including a consideration of the characteristics of a profession, the behaviors and attitudes of a professional, the history of optometry, the profession's legal basis, the major optometric organizations and sources and types of information available to optometrists. One hour of lecture per week.

OPTOM 8040 Neuroanatomy: 4 semester hours

Prerequisites: Consent of instructor. Detailed gross and microscopic anatomy of human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system.

OPTOM 8060 Biochemistry: 3 semester hours

Basic concepts of general and cellular biochemistry. Study of nomenclature structure, and reactions of organic molecules. Some emphasis on visual system - tears, intraocular fluids, lens, and photochemistry.

OPTOM 8090 Case Based Discovery For The Developing Clinician: 1 semester hour

Students acquire curricular competencies appropriate for the professional year in which they are enrolled via in depth individual and group discovery via case based presentations. The experience will provide students the opportunity to assimilate and recognize the relationships among diverse topics emphasized within the optometric curriculum. Participants work in groups of no more than 10.

OPTOM 8110 Anatomy, Physiology And Disease Process II: 5 semester hours

Prerequisite: OPTOM 8010 Continuation of OPTOM 8010 Anatomy, Physiology and Disease Processes I.

OPTOM 8120 Basic & Clinical Optics II: 5 semester hours

Prerequisite: OPTOM 8020. Radiometry and photometry, polarization, scattering, emmetropia, myopia, hyperopia, astigmatism, models of experimental myopia, accommodation, diffraction, retinal image size, entoptic phenomena, aberrations, lasers and the eye, apertures, and optical instruments.

OPTOM 8160 Anatamy And Physiology Of The Eye: 5 semester hours

Prerequisites: OPTOM 8040, OPTOM 8010 or consent of instructor. Vegetative anatomy and physiology of the eye, optic nerve, orbit, and adnexa will be discussed. This includes discussion of embryology and the dynamics of ocular fluids. Four lecture hours and a two-hour laboratory per week.

OPTOM 8180 Clinical Optometry I: 5 semester hours

Selected tests for ocular assessment including case history, visual acuity, opthalmoscopy, refraction, and binocular integration. The course format is two 75-minute lectures and two 2-hour laboratories.

OPTOM 8220 Ophthalmic Optics: 4 semester hours

Prerequisites: OPTOM 8140, OPTOM 8120, and OPTOM 8150. Opthalmic materials, physical characteristics of lenses and frames, paraxial optics of opthalmic lenses, opthalmic prisms, lens specifications, special lenses, multifocal lenses, unique designs, aniseikonic lenses, aberration theory and its application to lens design, lenses for low vision, protective eyewear, selection and dispensing eyewear, management of a dispensary.

OPTOM 8230 Interpersonal Communications: 2 semester hours

Prerequisites: OPTOM 8030. Principles of human interpersonal relationships. The enhancement of listening and verbal skills will be provided. Emphasis will be preparing the student to understand and manage the many human interpersonal relationships necessary in the practice of optometry. Two hours of lecture per week.

OPTOM 8240 Ocular Motility: 2 semester hours

Prerequisites: OPTOM 8040 or consent of instructor. The anatomy, physiology, neurology, measurement, characteristic, and control of the intra- and extraocular system.

OPTOM 8250 Monocular Sensory Processes: 5 semester hours

Prerequisite: OPTOM 8160 or consent of instructor. Monocular sensory processes of vision: phototransduction, visual neurophysiology, spatial and temporal vision, acuity, light adaptation and discrimination, color, motion, objects and attention. Sensory processes are considered from both the psychophysical aspects and neurophysiological bases, including the changes during development, adulthood and aging. Four hours of lecture and two hours of laboratory per week.

OPTOM 8260 Foundations Of Ocular And Systemic Disease And Management I: 4 semester hours

Prerequisites: OPTOM 8110 The first of a comprehensive, three semester course sequence. Topics will be discussed in a modular, systems based approach. The course introduces students to disease processes and the organ systems they affect, clinical diagnoses, pharmacology on specified organ systems and optometric and medical management of ocular and systemic disease.

OPTOM 8280 Clinical Optometry II: 5 semester hours

Prerequisites: OPTOM 8180 Continuation of clinical optometry. Patient care in the areas of refraction, binocular integration, perimetry, and biomicroscopy.

OPTOM 8290 Systemic Disease: 3 semester hours

Principles of health and disease. A survey of disease, disease processes, and disease manifestations. A study of tissue changes in inflammation, immunology, neoplasia, allergies, disturbances of metabolism and circulation, and injuries.

OPTOM 8320 Ophthalmic Dispensing: 1 semester hour

Prerequisites: OPTOM 8220. Clinical experience in verification and dispensing of opthalmic materials.

OPTOM 8340 Binocular Vision And Space Perception: 4 semester hours

Prerequisites: OPTOM 8240, OPTOM 8280 and OPTOM 8250 or consent of instructor. Binocular vision and space perception. Visual direction, theory of correspondence, fusion, rivalry, ocular dominance, and stereopsis. Developmental aspects and neurophysiological mechanisms.

OPTOM 8350 Epidemiology: 2 semester hours

A review of descriptive statistics, probability sampling, correlation, and prediction. The essentials of epidemiological study procedures and a discussion of the epidemiology of vision disorders.

OPTOM 8370 Foundations Of Ocular And Systemic Disease And Management II: 7 semester hours

Prerequisite: OPTOM 8260. A continuation of a comprehensive, systems based course sequence that introduces students to disease processes and the organ systems they affect, clinical diagnoses, pharmacology on specified organ systems and optometric and medical management of ocular and systemic disease. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

OPTOM 8380 Clinical Optometry III: 2 semester hours

Prerequisites: OPTOM 8280. Continuation of Clinical Optometry II. Diagnosis, prognosis and management of visual problems. Emphasis on conducting comprehensive eye exams in preparation for the initial clinical privileging examination.

OPTOM 8390 Specialty Clinic Laboratory: 1 semester hour

Prerequisite: OPTOM 8280. Students aquire and practice skills for pediatric, binocular vision, low vision, and contact lens examinations. The course format is one 2-hour laboratory per week.

OPTOM 8391 Clinical Topics in Contact Lenses: 1 semester hour Prerequisite: OPTOM 8280. This is the first in a series of 3 courses addressing contact lenses. The focus is on contact lens care and

OPTOM 8392 Clinical Topics in Binocular Vision and Pediatric Optometry: 1 semester hour

evaluation. The course format is one 50-minute lecture per week.

Prerequisite: OPTOM 8280. This course presents clinical diagnostic and management skills for both pediatric patients and those with binocular vision anomalies. The course formate is one 50-minute lecture per week.

OPTOM 8393 Clinical Topics in Low Vision: 1 semester hour

Prerequisite: OPTOM 8280. This course presents clinical diagnostic and management skills for patients with low vision. the course format is one 50-minute lecture per week.

OPTOM 8400 Directed Readings: 1-3 semester hours

Prerequisite: Consent of Instructor. Credit is given for independent literature review of a specific topic in any area of basic or clinical vision science guided by a full time faculty member with appropriate interests. Credit is awarded upon approval of a written paper regarding the selected topic. This elective may be repeated up to a total of 3 credit hours.

OPTOM 8410 Directed Research: 1-3 semester hours

Prerequisite: Consent of Instructor. Credit is given for independent research. Projects may be laboratory, library, or clinically based research in any area of vision science. Projects will be supervised by one or more full time faculty members. This elective may be repeated up to a total of 6 credit hours.

OPTOM 8420 Ocular Photography: 2 semester hours

Prerequisites: Consent of instructor Optical principles and clinical techniques in photographing the internal and external eye and its adnexa. Includes laboratory exercises on use of the most common types of clinical cameras. (One hour lecture, two hours laboratory).

OPTOM 8470 Case Studies In Ocular Disease: 1 semester hour
Prerequisite: OPTOM 8370 and OPTOM 8570. This course features
discussion of current clinical eye care topics, with attention to ocular

discussion of current clinical eye care topics, with attention to ocular disease diagnosis and management. Advanced diagnostic techniques, pathophysiological mechanisms of disease, and current clinic patients will also be emphasized.

OPTOM 8500 Primary Care Clinic I: 6 semester hours

Prerequisites: OPTOM 8380 and successful completion of all first and second year coursework required The clinical examination and care of general clinic patients, along with the fitting and dispensing of lenses and frames.

OPTOM 8520 Contact Lenses I: 3 semester hours

Prerequisites: OPTOM 8380. Historical development of the contact lens and its use. Basic lens terminology, specifications, physiochemical characteristics, optics, fabrication, and verification. Preliminary patient evaluation, indications and contraindications for contact lenses. Basic fitting philosophies for all lens types. Lens care and patient education. Patient and practice management considerations.

OPTOM 8540 Binocular Vision Anomalies: 4 semester hours

Prerequisites: OPTOM 8380 and OPTOM 8340 or consent of instructor. The etiology, epidemiology, symptoms, signs, and course sequelae of the obstacles to binocular vision-sensory, integrative, and motor. The detection, diagnosis, prognosis, and orthoptic treatment of such anomalies. Clinical care of aniseikonias.

OPTOM 8550 Low Vision: 2 semester hours

Prerequisite: OPTOM 8393. The etiology, epidemiology, symptoms, signs, course, and sequelae of low vision problems. Methods of testing, prognosis, selection of therapy, design of environmental and optical aids, problems of rehabilitation. Agencies, laws, public and social assistance for the partially sighted and blind. The course format is 1 lecture and 1 two-hour laboratory per week.

OPTOM 8560 Public Health: 2 semester hours

A review of local, state and federal orgainzations involved in health care, comprehensive health planning, new trends in health care delivery. The assessment of the quality of health care delivery. The relationship of vision care to these topics is emphasized.

OPTOM 8570 Advanced Topics In Ocular And Systemic Disease And Management: 6 semester hours

Prerequisite: OPTOM 8370. The third semester of a comprehensive, systems based course sequence. Advanced topics in diagnoses as well as optometric and medical management of ocular and systemic disease will be discussed. The laboratories will emphasize and augment important concepts introduced in the classroom environment.

OPTOM 8600 Primary Care Clinic II: 6 semester hours

Prerequisites: OPTOM 8500 and successful completion of all Fall semester third year coursework required. Continuation of Primary Care Clinic I.

OPTOM 8610 Environmental Vision: 2 semester hours

This course considers the relationship of the eye and vision to all aspects of one's environment including home, work, recreaction, and transportation. Emphasis will be placed on protecting the eye from injury and maximizing vision performance.

OPTOM 8620 Contact Lenses II: 2 semester hours

Prerequisites: OPTOM 8391 and OPTOM 8520. Advanced contact lens fitting, theories, and clinical methods for astigmatic, presbyopic, keratoconic, and aphakic designs. Special considerations include the use of corneal topography, orthokeratology, disposable lenses, lenses for extended wear and lenses for color deficiencies. The course format is one lecture per week.

OPTOM 8630 Practice Management III: 3 semester hours

Prerequisites: OPTOM 8030 and OPTOM 8230. The development and management of an optometric practice from a patient and community service point of view - office design, office routine, patient care administration, personnel management, recall systems. The establishment, development and management of an optometric practice from a business point of view. Legal developments, governmental regulations, legislation and the legislative process, malpractice, professional ethics, taxes, fee structures, insurance and accounting methods.

OPTOM 8640 Pediatric Optometry: 2 semester hours

Prerequisites: OPTOM 8380 and OPTOM 8392. Special examination and management considerations of the pediatric patient. Psychological, physiological, social, and demographic aspects of early visual development. Discussion of the optometric considerations of children with learning and reading disabilities. The course format is two lecture/discussions per week.

OPTOM 8650 Geriatric Optometry: 2 semester hours

Special examination and management considerations of the geriatric patient will be discussed. Psychological, physiological, social, and demographic aspects of aging, as well as ocular changes associated with the aging process will be taught.

OPTOM 8660 Contact Lens Specialty Clinic: 1 semester hour

Prerequisites: OPTOM 8391. The clinical examination and care of patients in the optometric specialty area of contact lenses.

OPTOM 8670 Comprehensive Case Review and analysis: 1 semester

Prerequisites: Enrollment in OPTOM 8500 or OPTOM 8600. Discussion of the diagnosis and management of common clinic patient encounters via Socratic teaching techniques. Interns are encouraged to present actual cases which have been particularly challenging for them. The course format is a weekly seminar.

OPTOM 8680 Ophthalmic Lasers: 1 semester hour

Principles and applications of lasers for ophthalmic use. Emphasis will be placed on demonstration where possible. Topics will include the principles, physics and safety concerns of ophthalmic lasers. Lasers used in retinal imaging, and in the care of glaucoma, cataract, refractive conditions, and cosmetic conditions will be discussed and demonstrated. Co-management of patients requiring ophthalmic laser treatment will also be covered.

OPTOM 8690 Pediatric/Binocular Vision Specialty Clinic: 1 semester hour

Prerequisites: OPTOM 8540 and successful completion of all Fall semester third year cousework. The clinical examination and care of patients in the optometric specialty areas of binocular vision and pediatric vision.

OPTOM 8700 Um-St. Louis Pediatric/Binocular Vision Patient Care: 3 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of patients in pediatric/binocular vision clinic at the University of Missouri-St. Louis Center for Eyecare. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8710 and OPTOM 8720.

OPTOM 8710 Um-St. Louis Contact Lens Patient Care: 3 semester hours

Prerequisites: Successful completion of all first, second and third year coursework required Comprehensive clinical care in the contact lens clinic at the University of Missouri-St. Louis Center for Eyecare. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8700 and OPTOM 8720.

OPTOM 8720 Umsl Eye Health Management Patient Care: 1 semester hour

Prerequisites: Successful completion of all first, second, and third year course work. Comprehensive clinical care in the eye health management clinic with ophthalmologists at the University of Missouri-St. Louis University Eye Center. This course fulfills one of the clinic courses required for graduation. This course must be taken in conjunction with OPTOM 8700 and OPTOM 8710.

OPTOM 8730 Community Service Patient Care Rotation A: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of patients at St. Louis area community health centers. This course fulfills one of the clinic courses required for graduation.

OPTOM 8750 Community Service Patient Care Rotation B: 7 semester hours

Prerequisite: Successful completion of all first, second, and third year course work. Comprehensive clinical care of patients at St. Louis area community health centers. This course fulfills one of the clinic courses required for graduation.

OPTOM 8760 Harvester Eye Care: 7 semester hours

Prerequisite: Successful completion of all first, second and third year course work. Comprehensive clinical care of patients at the Harvester Center for Eye Care. This course fulfills one of the clinic courses required for graduation.

OPTOM 8770 Community Service Patient Care Rotation C: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. Comprehensive clinical care of patients at St. Louis area community health centers. This course fulfills one of the clinic courses required for graduation.

OPTOM 8780 External Rotation In Institutional Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of primary care patients at external sites approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8790 External Rotation In Ocular Disease Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of patients with ocular disease at external sites approved by the School of Optometry's Externship Council. This course fulfills one of the clinc courses required for graduation.

OPTOM 8800 External Rotation In Pediatric/Binocular Vision Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of pediatric/binocular vision patients at an external site approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8810 External Rotation In Contact Lens Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of contact lens patients at an external site approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8811 External Rotation In Ophthalmic Surgical Patient Care: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Ophthalmic Surgical Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8812 External Rotation In Geriatric Patient Care: 7 semester

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Geriatric Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8813 External Rotation In Ophthalmic Sports Vision: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Sports Vision Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8814 External Rotation In Primary Care: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care of Primary Care Patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8815 External Rotation In Pathology And Treatment: 7 semester hours

Prerequisites: Successful completion of all second and third year coursework. Comprehensive clinical care in pathology and treatment of patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8816 External Rotation In Ophthalmic Laser Treatment: 7 semester hours

Prerequisites: Successful Completion of all second and third year coursework. Comprehensive clinical care in ophthalmic laser treatment of patients at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8817 External Rotation In Rehabilitative Patient Care: 7 semester hours

Prerequisites: Successful completion of all second and third year courseowrk. Comprehensive clinical care in Rehabilitative Patienct Care at an external site approved by the College of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8820 External Rotation In Low Vision Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second and third year coursework. Comprehensive clinical care of low vision patients at an external site approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8830 External Rotation In General Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. Comprehensive clinical care of a general population of optometric patients at external sites approved by the School of Optometry's Externship Council. This course fulfills one of the clinic courses required for graduation.

OPTOM 8840 External Supplementary Rotation In General Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. Comprehensive clinical care of general population of optometric patients at external site approved by the School of Optometry's Externship Council.

OPTOM 8850 Supplementary Rotation In General Patient Care: 7 semester hours

Prerequisites: Successful completion of all first, second, and third year coursework. Comprehensive clinical care of general population of optometric patients at the UM-St. Louis Center for Eye Care, UM-St. Louis Optometric Center, or the UM-St. Louis East St. Louis Eye Center.

OPTOM 8870 Practice Management IV: 2 semester hours

Prerequisites: Successful completion of all first, second and third year. Further in-depth discussion in practice management.

OPTOM 8880 Clinic Seminar: 1 semester hour

Prerequisites: Successful completion of all first, second and third year. Presentation and discussion of interesting clinical patients. Additional clinical testing techniques and concepts. Further discussion of patient data analysis-the process of determining diagnosis, prognosis, and therapy. Further discussions in the optometric specialities.

OPTOM 8910 Topics In Geriatric Optometry: 3 semester hours

Prerequisite: Opt 8650 This course will address concerns and options in providing health care to a geriatric population. New techniques, research and public policy changes will be discussed to assist students in assembling a global perspective on delivering health care to a specific population.

OPTOM 8970 Geriatric Patient Care Delivery: 3-6 semester hours

Prerequisite: Consent of Geriatric Residency Instructors. Direct optometric patient care to a population that is largely geriatric. Emphasis will be on integrating specialty care available for these patients to provide comprehensive vision care. Two hours of direct patient care per week are required per hour of credit. In addition, the student will attend weekly supervisory meetings. May be repeated with consent of instructor for a total of 18 credits. Patient care will become more independent of direct supervision and the type of patients seen will be more varied with each repeat.

Vision Science Courses

VIS SCI 6400 Sensory Processes And Perception: 3 semester hours

Prerequisite: Graduate standing in vision science or consent of instructor. Current views on the encoding of various aspects of the visual stimulus (intensity, space, time, and wavelength) that give rise to the perceptions of brightness, contour, motion and color will be considered in this course. The psychophysical tools available to examine visual encoding will be emphasized. Other topics will include binocular vision and depth perception, information processing approaches to visual pattern recognition, and the similarities and interactions of the visual system with the other sensory modalities.

VIS SCI 6401 Visual Optics: 3 semester hours

Prerequisite: graduate standing in vision science or consent of instructor. This course deals with the optical properties of the eye. Included are a review of general optics including physical optics, paraxial and nonparaxial geometric optics, image quality, radiometry and photometry, and optical instrumentation. Topics in visual optics will include schematic eyes, measurement of the refractive errors, visual axes, spectral absorption by the ocular media, and the optical performance of the eye.

VIS SCI 6402 Ocular Anatomy And Physiology: 3 semester hours

Prerequisite: graduate standing in vision science or consent of insturctor. The structures and fluids of the eye and orbit, their interactions and functions are considered in this course. Specific topics include the eyelids. Tearfilm, conjunctiva, cornea. Iris, ciliary body, vasculature, aqueous humor, vitreous body, and the retina.

VIS SCI 6403 Psychophysical Methods And Experimental Design: 3 semester hours

Prerequisite: Graduate standing in vision science or consent of instructor. Advanced methodology for the design and analysis of experiments in a variety of areas of visual science are considered in this course. Both basic and applied topics will be considered. Special emphasis will be placed on psychophysical methodology, signal detection analysis, and scaling techniques.

VIS SCI 6404 Sensory Neuroscience: 3 semester hours

Prerequisite: Graduate standing in vision science or consent of instructor. This course will deal with the neural organization of the sensory system with an emphasis on vision. It will include a review of general neurophysiology and neuroanatomy as they relate to the processing of environmental stimuli into neural information as well as experimental approaches utilized in neurobiology. Topics to be covered include: neural transduction and sensory coding by receptors and neurons, constraints on perception defined by the functional organization of the nervous system, sensory development and plasticity as related to neural development, and evolution of sensory systems.

VIS SCI 6405 Neuroanatomy: 5 semester hours

Prerequisite: Graduate standing. Detailed gross and microscopic anatomy of the human central nervous system with a special emphasis on the cranial nerves, nuclei, and the visual system. Students may not receive credit for both VIS SCI 6405 and OPTOM 8040.

VIS SCI 6406 Geometric Optics: 5 semester hours

Prerequisite: Graduate Standing. The principles of geometrical optics as applied to refracting and reflecting surfaces, thin lenses, thick lenses, and lens systems. The optics of various ophthalmic instruments and techniques will be examined. A student may not receive credit for both VIS SCI 6406 and OPTOM 8020.

VIS SCI 6458 Noninvasive Assessment Of The Visual System: 2 semester hours

Prerequisite:Completion of core or consent of instructor. This course reviews historical topics and emphasizes current topics in the noninvasive clinical and laboratory assessment of the normal and diseased human visual system. Topics will range from delineation of disease mechanisms (such as retinal and choroidal disorders, cataract, corneal disease, glaucoma, strabismus and amblyopia) to the design and assessment of new techniques and technology for evaluating the function of the visual system (e.g. advances in imaging techniques, fluorophotometry, perimetry, laser interferometry, psychophysics, etc.).

VIS SCI 6470 Individual Studies In Vision Science: 2 semester hours

Prerequisite: Consent of instructor. This course designation can be used to cover a variety of topics in visual science. In general, very specific topics of limited interest will be presented as individual studies. Individual studies and advanced topics enable the student's course of study to be sharply tuned to his or her major area of interest.

VIS SCI 6490 Graduate Research In Vision Science: 1-15 semester hours

Prerequisite: Consent Of Instructor. Research In An Area Selected By The Student In Consultation With Faculty Members. May Be Taken To A Maximum Of Ten Hours For The M.S. And 15 Hours For The Ph.D.

VIS SCI 6497 Interdisciplinary Geriatric Care: 3 semester hours

Same as GERON 6497. Prerequisites: Consent of instructor. Interdisciplinary approaches that address the medical, social, instrumental and functional needs of older adults will be examined. Information about geriatric care management and social issues affecting the well-being of older adults will be provided. Clinical, theoretical, and educational perspectives will be presented.

VIS SCI 6499 Current Topics In Optometry And Vision Science: 1 semester hour

Prerequisite: Consent of instructor this seminar course examines and analyzes current publications in eye care and vision research.

Curriculum

First Year

Fall Semester

Semester	Credit Hours	Lecture	Lab
8010 Anatomy, Physiology and Disease Processes I	5	4	2
8020 Basic and Clinical Optics I	4	3	2

8030 Introduction to Optometry	1	1	
8040 Neuroanatomy	4	3	2
8060 Biochemistry	3	3	
8090 Case Based Discovery for the Developing Clinician	l 1	1	
8350 Epidemiology	2	2	

Spring Semester

Semester	Credit Hours	Lecture	Lab
8090 Case Based Discovery for the Developing Clinician	1	1	
8110 Anatomy, Physiology and Disease Processes II	5	4	2
8120 Basic and Clinical Optics II	5	4	2
8140 Physical Optics and Photometry	3	2	2
8160 Anatomy and Physiology of the Eye	5	4	2
8180 Clinical Optometry I	5	3	4

Second Year

Fall Semester

Semester	Credit Hours	Lecture	Lab
8220 Ophthalmic Optics	4	3	2
8230 Interpersonal Communications	2	2	
8240 Ocular Motility	3	3	
8250 Monocular Sensory Processes	5	4	2
8260 Foundations of Ocular and Systemic Disease and Management I		3	2
8280 Clinical Optometry II	5	3	4

Spring Semester

Semester	Credit Hours	Lecture	Lab
8320 Ophthalmic Dispensing	1		2
8340 Binocular Vision and Space Perception	4	3	2
8370 Foundations of Ocular and Systemic Disease and Management II		6	2
8380 Clinical Optometry III	2	1	2
8390 Specialty Clinic Laboratory	1		2
8391 Clinical Topics in Contact lens	1	1	
8392 Clinical Topics in Binocular Vision and Pediatric Optics	1	1	
8393 Clinical Topics in Low Vision	1	1	
8560 Public Health	2	2	

Third Year

Fall Semester

Semester	Credit Hours	Lecture	Lab
8500 Primary Care Clinic I	6		12
8520 Contact Lenses I	3	2	2
8540 Binocular Vision Anomalies	4	3	2
8550 Low Vision	2	1	2
8570 Advanced Topics in Ocular and Systemic Disease and Management	6	5	2
8650 Geriatric Optometry	2	2	

Spring Semester

Semester	Credit Hours	Lecture	Lab
8600 Primary Care Clinic II	6		12
8610 Environmental Vision	2	2	

8620 Contact Lenses II	2	2	
8630 Practice Management III	3	3	
8640 Pediatric Optometry	2	2	
8660 Contact Lens Specialty Clinic	1		2
8670 Comprehensive Case Review and Analysis	1	1	
8680 Ophthalmic Lasers	1	1	
8690 Pediatric / Binocular Vision Specialty Clinic I	1		2

Fourth Year

Category 1 UMSL

Note: Must enroll in 8700, 8710 and 8720 concurrently

Semester	Credit Hours	Lecture	Lab
8700 UMSL Pediatric/ Binocular Vision Patient Care	3		6
8710 UMSL Contact Lens Patient Care	3		6
8720 UMSL Eye Health Management Patient Care	1		2

Category 2 Institutional

Semester	Credit Hours	Lecture	Lab
8780 External Rotation in Institutional Patient Care	7		14

Category 3 Ocular Disease

Semester	Credit Hours	Lecture	Lab		
8790 External	7		14		
Rotation in Ocula	r				
Disease Patient					
Care					

Category 4 Intern

Semester	Credit Hours	Lecture	Lab
8730 Community	7		14
Service Patient			
Care Rotation A			

8750 Community Service Patient Care Rotation B	7	14
8760 Harvester Eye Center Patient Care	7	14
8770 Community Service Patient Care Rotation C	7	14

Category 5 Specialty

Semester	Credit Hours	Lecture	Lab
8800 External Rotation in Pediatric/ Binocular Vision Patient Care	7		14
8810 External Rotation in Contact Lens Patient Care	7		14
8811 External Rotation in Ophthalmic Surgical Patient Care	7		14
8812 External Rotation in Geriatric Patient Care	7		14
8813 External Rotation in Ophthalmic Sports vision	7		14
8814 External Rotation In Primary Care	7		14
8815 External Rotation in Pathology and Treatment	7		14
8816 External Rotation in Ophthalmic Laser Treatment	7		14
8817 External Rotation in Rehabilitative Patient Care	7		14
8820 External Rotation in Low Vision Patient Care	7		14

Category 6 Elective

Semester	Credit Hours	Lecture	Lab
8830 External Rotation in General Patient Care	7		14
8840 External Supplementary Rotation in General Patient Care	7		14
8850 Supplementary Rotation in General Patient Care	7		14

Required Courses

Semester	Credit Hours	Lecture	Lab
8870 Practice Management IV	2	2	
8880 Clinical Seminar	1	1	

Due to advances in the optometric profession, sequencing of courses may change. The courses listed above are subject to change through normal academic procedures.

Elective Courses in the College of Optometry

OPTOM 8400 (p. 487)	Directed Readings	1-3
OPTOM 8410 (p. 487)	Directed Research	1-3
OPTOM 8420 (p. 487)	Ocular Photography	2
OPTOM 8470 (p. 487)	Case Studies In Ocular Disease	1
OPTOM 8910 (p. 487)	Topics In Geriatric Optometry	3
OPTOM 8970 (p. 487)	Geriatric Patient Care Delivery	3-6

Graduate Vision Science Courses Approved for Elective Credit*

OPTOM 6400 (p. 487)	Sensory Processes And Perception	3
OPTOM 6401 (p. 487)	Visual Optics	3
OPTOM 6402 (p. 487)	Ocular Anatomy And Physiology	3
OPTOM 6403 (p. 487)	Psychophysical Methods And Experimental Design	3
OPTOM 6404 (p. 487)	Sensory Neuroscience	3

College of Optometry

490

OPTOM 6470 (p. 487)	Individual Studies In Physiological Optics	2
OPTOM 6490 (p. 487)	Graduate Research In Physiological Optics	1-15
OPTOM 6497 (p. 487)	Interdisciplinary Geriatric Care	2
OPTOM 6499 (p. 487)	Current Topics In Optometry And Vision Science	1

The Graduate School

The Graduate School of the University of Missouri-St. Louis serves over 3000 students in 29 master's programs and over 600 students in 13 doctoral programs by managing assistantship, fellowship, and research programs. Graduate School staff seek ways to enhance students' relationships with the university, from the time they are admitted until they graduate. To maintain quality, staff also assure that policies established by the graduate faculty are followed.

Graduate Programs

http://www.umsl.edu/divisions/graduate/future/index.html

Graduate School Policies

http://bulletin.umsl.edu/generalregulations/graduatestudy/

Public Policy Administration

General Information

The University of Missouri-St. Louis' Public Policy Administration (P P ADM) program has three components: the Master of Public Policy Administration (MPPA) degree program, the Nonprofit Management and Leadership Program (NPML), and the Local Government Partnership (LGP).

The Master of Public Policy Administration (MPPA) is an interdisciplinary program designed to prepare students for managerial and policy analysis positions in the public and non-profit sectors or related organizations. The MPPA is part of the Public Policy Administration program, an independent unit of the UMSL Graduate School, and is accredited by the Network of Schools of Public Policy, Affairs, and Administration (http://naspaa.org).

A key strength of the program is the experienced faculty, who are all committed to the success of our students. Core faculty members hold joint appointments in public policy administration and related departments, such as economics, political science, sociology, and business administration. Adjunct instructors also have considerable professional, educational, and teaching experience and play an important role in connecting our students with the professional community.

The full facilities of Campus Computing, and the Laboratory for Quantitative Analysis are available. UMSL is a member of the Inter-University Consortium for Political and Social Research, the Association for Public Policy & Management (APPAM), Nonprofit Academic Centers Council (NACC), and NASPAA.

Career Outlook

The current outlook for graduates of the interdisciplinary Master of Public Policy Administration Program is quite promising. Recent graduates of this program have found careers as budget analysts, transportation planners, and human resources managers with local, regional, state, and federal agencies, and the nonprofit sector.

Admissions Requirements

Applicants must meet the following program admission requirements in addition to the general requirements of the Graduate School.

By the time of enrollment, prospective students must have obtained a baccalaureate degree or the equivalent from an accredited college or university. A minimum GPA of 3.0 on a 4.0 scale is required to be considered for regular admission. This GPA is higher than the minimum for the Graduate School. An undergraduate GPA below 3.0 will be considered on an individual basis for restricted admission. Applicants must demonstrate proficiency in college algebra or the equivalent. Graduate coursework also will be taken into consideration.

Applicants must obtain three letters of recommendation. The letters should be from those who are familiar with your professional and/or academic skills. At least one of the letters must be from a current or former college-level instructor. Written letters of recommendation must accompany the downloadable recommendation forms from the Graduate School. These materials should be sent by the letter writer directly to the MPPA program.

Applicants are required to submit a 2-3 page personal statement to demonstrate competence in writing. The statement should explain how the MPPA program fits in with the applicant's educational and professional goals. This personal statement should be sent directly to the MPPA program; the statement of purpose in the web-based admission application is not sufficient.

Applicants must submit official transcripts to the graduate admissions office documenting the baccalaureate degree and all other prior college and graduate-level coursework completed.

Degree Requirements

The MPPA degree consists of 40 credit hours, 28 of which are taken as part of the core curriculum and 12 that are electives. Students who complete the degree must demonstrate the following:

- Design, research, write, and defend analyses of substantive public policy problems and/or potential solutions
- Use data and sophisticated analytic tools (qualitative and quantitative) to conduct research in public policy and administration
- Understand the policy and internal/external environments of public and nonprofit organizations
- Develop expertise in a substantive area of public policy administration

Core Curriculum

All candidates for the MPPA degree must complete 28 hours in the core curriculum sequence composed of the following public policy administration courses:

Policy Analysis and Economics

P P ADM 6000 (p. 491)	Introduction To Policy Analysis	3
P P ADM 6080 (p. 491)	Microeconomics For Policy Analysis	3
P P ADM 6210 (p. 491)	Public Sector Microeconomics	3
P P ADM 6900 (p. 491)	Cases In Public Policy Administration	3
Public Administr	ation and Budgeting	
P P ADM 6400 (p. 491)	Proseminar In Public Administration	3
P P ADM 6600 (p. 491)	Organizational Behavior And Administrative Processes	3
P P ADM 6180 (p. 491)	Governmental Budgeting And Financial Control	3

Statistics, Research Methods, and Information Technology

P P ADM 6010 (p. 491)	Introduction To Policy Research	3
P P ADM 6750 (p. 491)	Introduction To Evaluation Research Methods	3
P P ADM 6850 (p. 491)	Information Technology and The Public and Nonprofit Sectors	1
Total Hours		28

A thesis is not required to complete the program. However, writing is an important component of the degree, and students will complete written analyses as part of their coursework and/or internship.

P P ADM 6000 (p. 491) should be taken at the beginning of the program. It is strongly recommended that P P ADM 6010 (p. 491) and P P ADM 6080 (p. 491) be taken early in a student's course plan. P P ADM 6900 (p. 491) is a capstone course and must be taken toward the end of the program.

Students may select one of four emphasis areas in which to concentrate their advanced studies:

- 1. Managing Human Resources and Organizations,
- 2. Policy Research and Analysis,
- 3. Local Government Management,
- 4. Nonprofit Organization Management.

Students may also select an individualized emphasis area in consultation with their advisor and with approval of the Director.

Prior to the completion of 15 hours in the MPPA program, students should identify an emphasis area. In each of the emphasis areas students may be able to substitute another course for a specified elective, with the MPPA Director's approval. Specific requirements for each emphasis area are as follows:

Managing Human Resources and Organizations

a. Required

(p. 491)

area)

P P ADM 6490 (p. 491)	Human Resources In The Public Sector	3
b. Electives		
Select three of the	following:	9
ECON 5400 (p. 491)	Labor Economics: Theory And Public Policy	
MGMT 5611	Advanced Organizational Behavior And	
(p. 491)	Administrative Processes	
MGMT 5622 (p. 491)	Union-Management Relations And Collective Bargaining	
MGMT 5625 (p. 491)	Selected Topics In Human Resource Management	
P P ADM 6500	Selected Topics in Public Policy Administration	
(p. 491)	(when topic is relevant to Human Resource and Organized Behavior)	
P P ADM 6680 (p. 491)	Negotiating Workplace Conflict	
P P ADM 6950	Internship (in assignment relevant to emphasis	

POL SCI 3470 Collective Bargaining (p. 491)	
Total Hours	12

Policy Research and Analysis

a. Required

POL SCI 6402 (p. Intermediate Techniques In Policy Research	3
491)	
or ECON 4100 (p. Introduction To Econometrics	
491)	

b. Electives

b.	Electives		
Se	lect three of the	following:	9
	POL SCI 6403 (p. 491)	Advanced Techniques In Policy Research	
	or ECON 4110 (p. 491)	Applied Econometrics	
	ECON 4160 (p. 491)	Geospatial Analysis In The Social Sciences	
	ECON 4170 (p. 491)	Fundamentals Of Cost-Benefit Analysis	
	ECON 4550 (p. 491)	Natural Resource Economics	
	ECON 5400 (p. 491)	Labor Economics: Theory And Public Policy	
	ECON 5640 (p. 491)	Transportation Economics	
	ECON 5700 (p. 491)	Urban and Real Estate Economics	
	ECON 5720 (p. 491)	Real Estate Economics	
	ECON 5760 (p. 491)	Health Economics	
	ECON 5900 (p. 491)	Advanced Topics In Economic Analysis	
	POL SCI 6404 (p. 491)	Multi-Method Research Design	
	POL SCI 6422 (p. 491)	Law, Courts And Public Policy	
	POL SCI 6444 (p. 491)	Seminar In Public Policy And Aging	
	POL SCI 6452 (p. 491)	Public Policy Of Conservation And Sustainable Development	
	SOC 4040 (p.	Survey Research Practicum for Sociology	

Total Hours 12

P P ADM 6950 Internship (in assignment relevant to the emphasis

Local Government Management

SOC WK/POL Health Care Policy

area)

a. Required 1

(p. 491)

SCI 6443 (p. 491)

P P ADM 6340	Seminar In City Administration	3
(p. 491)		

3

or P P ADM 6350 (p. 491)	Issues In Urban Management	
POL SCI 6470 (p. 491)	Proseminar In Urban Politics	3
or POL SCI 6471 (p. 491)	Seminar In Urban Politics	
b. Electives ²		
Select two of the	following:	6
P P ADM 6300 (p. 491)	Leadership and Management in Nonprofit Organizations	
P P ADM 6340 (p. 491)	Seminar In City Administration	
P P ADM 6350 (p. 491)	Issues In Urban Management	
P P ADM 6490 (p. 491)	Human Resources In The Public Sector	
P P ADM 6510 (p. 491)	Urban And Regional Planning And Public Policy	
P P ADM 6680 (p. 491)	Negotiating Workplace Conflict	
P P ADM 6950 (p. 491)	Internship (in assignment relevant to emphasis area))	
ECON 4160 (p. 491)	Geospatial Analysis In The Social Sciences	
ECON 5510 (p. 491)	Public Choice	
ECON 5700 (p. 491)	Urban and Real Estate Economics	
POL SCI 4460 (p. 491)	Urban Planning And Politics	
POL SCI 6470 (p. 491)	Proseminar In Urban Politics	
POL SCI 6471 (p. 491)	Seminar In Urban Politics	
Total Hours		12

- For Local Government Management specialization, a course not taken to fulfill the "required 6 hours" may be taken as an elective.
- NOTE: Students interested in careers in local government management are strongly encouraged to take P P ADM 6490 (p. 491), Human Resources in the Public Sector, as one of their electives.

Nonprofit Organization Management and Leadership

a. Required

P P ADM 6300 (p. 491)	Leadership and Management in Nonprofit Organizations	3
P P ADM 6310 (p. 491)	American Philanthropy and Nonprofit Resources Development	3
P P ADM 6311 (p. 491)	Staff Management Issues in Nonprofit Organizations	1
P P ADM 6312 (p. 491)	Legal Issues in Managing Nonprofit Organizations	1
P P ADM 6313 (p. 491)	Financial Issues In Managing Nonprofit Organizations	1
b. Electives		

	(p. 431)	Littiio3	
	BUS AD 5100 (p. 491)	Managerial Communication	
	BUS AD 5900 (p. 491)	Law, Ethics And Business	
	MKTG 5700 (p. 491)	Contemporary Marketing Concepts	
	P P ADM 6490 (p. 491)	Human Resources In The Public Sector	
		Selected Topics in Nonprofit Management and Leadership	
		Strategic And Program Planning For Non Profit Organizations	
	P P ADM 6680 (p. 491)	Negotiating Workplace Conflict	
		Internship (in assignment relevant to the emphasis area)	
	PSYCH 7412 (p. 491)	Social Psychology	
To	otal Hours		12

ACCTNG 3451 Accounting For Governmental And Not-For-Profit

Individualized Emphasis Area

Prior to the completion of 15 hours in the MPPA program, the student must present a proposal for 12 hours of specific coursework for approval by the MPPA faculty. The 12 hours must include P P ADM 6950 (p. 491), Internship (in an assignment relevant to the emphasis area) unless the student has significant public or nonprofit sector experience.

Internships

Select one of the following:

Entities

(p. 491)

An internship is required for students without substantial experience in the public or nonprofit sectors. Interns may be placed in planning agencies, city managers' offices, administrative departments, or nonprofit agencies. Credit is granted after successful completion of the internship and a written paper at the end of the semester.

MPPA students currently employed in public agencies or nonprofit organizations can receive 3 hours of credit for internships with their employer. To do so, students must develop, in consultation with their advisors, special research projects outside the scope of their regular employment duties.

Students who have significant relevant experience in the public or nonprofit sector may request that the internship requirement be waived. To request a waiver, students must submit a written request outlining the student's professional or managerial field experience with appropriate documentation. Any request for a waiver from the internship requirement must be approved by the program director. Students who receive a waiver must take an additional 3 hours of electives in lieu of the internship.

BSPPA/MPPA 2+3 Program in Public Policy Administration

The BSPPA / MPPA 2+3 program is an accelerated program that allows outstanding BSPPA students to complete a baccalaureate degree and Master of Public Policy Administration (MPPA) degree in five years. The program allows students to apply 12 of the MPPA credit hours towards

the BS, reducing the overall required hours for the two degrees from the standard 160 - 120 for the BS plus 40 for the MPPA – to 148 hours.

Core Curriculum

All candidates for the MPPA degree must complete 28 hours in the core curriculum sequence composed of the following public policy administration courses:

Policy Analysis and Economics

P P ADM 6000 (p. 491)	Introduction To Policy Analysis	3
P P ADM 6080 (p. 491)	Microeconomics For Policy Analysis	3
P P ADM 6210 (p. 491)	Public Sector Microeconomics	3
P P ADM 6900 (p. 491)	Cases In Public Policy Administration	3
Public Adminis	tration and Budgeting	
P P ADM 6180 (p. 491)	Governmental Budgeting And Financial Control	3
P P ADM 6400 (p. 491)	Proseminar In Public Administration	3
P P ADM 6600 (p. 491)	Organizational Behavior And Administrative Processes	3
Statistics, Rese	arch Methods, and Information Technology	
P P ADM 6010 (p. 491)	Introduction To Policy Research	3
P P ADM 6750 (p. 491)	Introduction To Evaluation Research Methods	3
P P ADM 6850 (p. 491)	Information Technology and The Public and Nonprofit Sectors	1
Total Hours		28

A thesis is not required to complete the program. However, writing is an important component of the degree, and students will complete written analyses as part of their coursework and/or internships.

Electives

Twelve credit hours are taken as electives based on a student's interest. The electives are organized into emphasis areas, listed above in the MPPA program.

For each student in this program, the MPPA Director and the BSPPA Advisor in the Department of Political Science, will jointly identify and approve four MPPA courses (totaling 12 credits) that cover, at a more advanced level, undergraduate courses that would otherwise be taken for the BSPPA degree. These courses will substitute for (and should not duplicate) BSPPA courses, and will count toward completion of both BSPPA and MPPA requirements.

Degree requirements remain the same for the two degrees, but students admitted into this accelerated program will be able to earn 12 graduate credits prior to completing their undergraduate degrees. Upon completion of 120 credit hours (including all other undergraduate degree requirements) the BSPPA degree will be awarded.

Admission Requirements

BSPPA majors must have completed between 60 and 108 credit hours before applying for admission into this dual degree program. It is

recommended that applicants apply after completing 90 credit hours. Applicants must have a minimum 3.0 overall GPA as well as a minimum 3.0 GPA in the major. Applications will be submitted to the Master of Public Policy Administration program and decisions will be made by the director in consultation with the BSPPA advisor in the Department of Political Science. Applicants must demonstrate proficiency in college algebra or equivalent. The application must be accompanied by three letters of recommendation, including one from a current, full-time faculty member, and by a two- to three-page statement explaining how the BSPPA/MPPA program fits in with the applicant's educational and professional goals.

Graduate Certificate Program in Nonprofit Organization Management and Leadership (NPML)

Through the Public Policy Administration Program, the university offers the Graduate Certificate Program in Nonprofit Organization Management and Leadership for students who are current professional staff, board members, and other leaders of nonprofit and voluntary organizations, as well as those who plan to work in the field. UMSL's NPML certificate is the only program in the St. Louis region recognized by the Nonprofit Academic Centers Council (NACC). The certificate can be taken by itself or in conjunction with the Master of Public Policy Administration or a graduate degree in another field. Course credits earned in the certificate program can be applied to the MPPA, but a separate application is required.

The graduate certificate in nonprofit management and leadership requires the completion of 18 credit hours. Nine of these are the following core courses:

P P ADM/SOC WK 6300 (p. 491)	Leadership and Management in Nonprofit Organizations	3
P P ADM/SOC WK 6310 (p. 491)	American Philanthropy and Nonprofit Resources Development	3
P P ADM/SOC WK 6311 (p. 491)	Staff Management Issues in Nonprofit Organizations	1
P P ADM/SOC WK 6312 (p. 491)	Legal Issues in Managing Nonprofit Organizations	1
P P ADM/SOC WK 6313 (p. 491)	Financial Issues In Managing Nonprofit Organizations	1
Total Hours		9

Six hours of electives are to be taken from approved courses in accounting, business administration, economics, management, marketing, political science, psychology, public policy administration, and sociology. A student may choose among these courses or other courses approved by the program director.

Three hours of internship are also required, or graduate students should demonstrate the equivalent professional field experience. Any request for an exemption from the internship requirement must be approved by the nonprofit program director after a review of the student's professional or managerial field experience with appropriate documentation. Students who receive an exemption must take another 3 hours of electives from the selection in section B (below).

The internship will include learning activities in management and governance processes in nonprofit organizations, as well as a seminar in which students will critically reflect on their field experience with a faculty supervisor.

Requirements for admission to the graduate certificate program include an undergraduate degree and a GPA of 3.0 or better. Applicants must obtain two letters of recommendation. At least one of the letters must be from a current or former college-level instructor. The letters should be sent directly to the NPML office.

Graduate Certificate Program in Local Government Management

The Graduate Certificate in Local Government Management is designed for current professional staff, elected or non-elected local government officials, and those who are interested in pursuing a career in the local government sector. The certificate can be taken by itself or in conjunction with the Master of Public Policy Administration or other graduate degree. A separate application for the certificate program may be required when students in a degree program wish to incorporate the certificate program.

The graduate certificate in local government management requires the completion of 18 credit hours. Twelve of these are the following core courses:

Covernmental Budgeting And Financial Control

P P ADM 6180 (p. 491)	Governmental Budgeting And Financial Control	3
P P ADM 6340 (p. 491)	Seminar In City Administration	3
or P P ADM 6350 (p. 491)	Issues In Urban Management	
P P ADM 6490 (p. 491)	Human Resources In The Public Sector	3
POL SCI 6470 (p. 491)	Proseminar In Urban Politics	3
or POL SCI 6471 (p. 491)	Seminar In Urban Politics	
Total Hours		12

Three hours of electives are to be taken from selected courses in, business administration, criminal justice, economics, political science, public policy administration, and sociology. A student may choose among these courses or other courses approved by the program director. Electives will be chosen from the following:

Select one of the following: 1

491)

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	CRIMIN 6442 (p. 491)	Communities And Crime		
	ECON 4160 (p. 491)	Geospatial Analysis In The Social Sciences		
	ECON 5700 (p. 491)	Urban and Real Estate Economics		
	POL SCI 6470 (p. 491)	Proseminar In Urban Politics		
	POL SCI 6471 (p. 491)	Seminar In Urban Politics		
	P P ADM/SOC WK 6300 (p.	Leadership and Management in Nonprofit Organizations		

P P ADM 6340 (p. 491)	Seminar In City Administration	
P P ADM 6350 (p. 491)	Issues In Urban Management	
P P ADM 6400 (p. 491)	Proseminar In Public Administration	
P P ADM 6510 (p. 491)	Urban And Regional Planning And Public Policy	
P P ADM 6600 (p. 491)	Organizational Behavior And Administrative Processes	
P P ADM 6680/ MGMT 5612 (p. 491)	Negotiating Workplace Conflict	
Total Hours		3

Three hours of internship or equivalent professional experience are also required but may be waived. Any request for an exemption from the internship requirement must be approved by the local government program director after a review of the student's professional or managerial field experience with appropriate documentation. Students who receive an exemption must take another three hours of electives from courses listed in section 2 (above). The internship will include learning activities in management and governance processes in local government jurisdictions,

Other courses may be added as advisors deem appropriate for content.

experience with a faculty supervisor.

as well as a seminar in which students will critically reflect on their field

Requirements for admission to the graduate certificate program include an undergraduate degree and a GPA of 3.0 or better. Applicants must obtain two letters of recommendation. At least one of the letters must be from a current or former college-level instructor. Applicants must submit a two-page personal statement explaining how the certificate program fits in with the applicant's educational and professional goals. The letters and the personal statement should be sent directly to the Public Policy Administration Program.

Courses

P P ADM 6000 Introduction To Policy Analysis: 3 semester hours Same as POL SCI 6410. Systematic development of a critical/analytic base for dealing with public policy.

*P P ADM 6010 Introduction To Policy Research: 3 semester hours*Same as POL SCI 6401. Procedures for testing explanations, including research design, principles of measurement, probability sampling, methods of data collection, and techniques for analyzing data.

P P ADM 6080 Microeconomics For Policy Analysis: 3 semester hours

Same as ECON 5010. Prerequisite: Graduate student standing. This course introduces microeconomic analysis of consumers, firms, and government, with an emphasis on policy applications. It assumes no prior training in economics and is appropriate for graduate students in public policy administration, nonprofit management, political science, gerontology, criminology and criminal justice, and other related fields.

P P ADM 6150 Directed Readings And Research In Public Policy: 1-10 semester hours

Same as POL SCI 6415. Prerequisite: Consent of instructor. Independent study through readings, reports, research projects, and conferences. May be repeated for credit, provided the subject matter is different.

P P ADM 6180 Governmental Budgeting And Financial Control: 3 semester hours

Same as BUS AD 5450. Prerequisite: ACCTNG 5400 a study of municipal and federal financial control and budgeting procedures with emphasis on public policy. The impact of financial control on top management decisions and the effect of budget strategies on the allocations of public funds.

P P ADM 6210 Public Sector Microeconomics: 3 semester hours

Same as ECON 5500. Prerequisites: ECON 3001 or BUS AD 5001 or P P

ADM 6080. Application of tools of intermediate microeconomics to address public sector issues. Special emphasis is placed on critically analyzing current public policy debates using the models developed. Topics include: cases in which competitive market fails to allocate resources efficiently (e.g. externalities and public goods), importance of property rights, incentive effects of the tax and transfer system, and the fundamentals of

P P ADM 6300 Leadership and Management in Nonprofit Organizations: 3 semester hours

cost/benefit analysis.

Same as POL SCI 6300 and SOC WK 6300. Prerequisites: Graduate standing required. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

P P ADM 6310 American Philanthropy and Nonprofit Resources Development: 3 semester hours

Same as SOC WK 6310. Prerequisites: Graduate Standing Required. This course addresses the history, philosophy, roles and scope of philanthropy in the United States, including its role in the nonprofit, voluntary sector. It further examines the contemporary forces which impact philanthropy and charitable giving, both by institutions and individuals. The course examines the effective planning and management of development programs (e.g., annual giving), fund raising vehicles (e.g., mail solicitations) and the fund raising process, form planning through donor relations.

P P ADM 6311 Staff Management Issues in Nonprofit Organizations: 1 semester hour

Same as SOC WK 6311. Prerequisites: Graduate standing required. This course addresses issues involved in managing staff in nonprofit organizations. The course will cover the following topics: fundamentals of staff supervision; balancing supervisory processes with counseling and coaching; selecting, hiring, evaluating, and terminating staff' legal issues that affect these processes.

P P ADM 6312 Legal Issues in Managing Nonprofit Organizations: 1 semester hour

Same as SOC WK 6312. Prerequisites: Graduate Standing required. This course addresses legal issues involved in managing and governing nonprofit organizations. The course will cover the following topics: The Board as steward of the organization; Director and officer liability; tax laws concerning charitable giving; legal issues in managing staff and volunteers (e.g., hiring, evaluating, and terminating employees); Missouri nonprofit law.

P P ADM 6313 Financial Issues In Managing Nonprofit Organizations: 1 semester hour

Same as SOC WK 6313. Prerequisite: Graduate standing required. This course addresses financial issues involved in governing and managing nonprofit organizations. The course will cover the following topics: Cash flow analysis; budgeting; fund accounting; cost accounting (determining costs for programs and services); understanding and using standard financial statements, including balance sheets, cash flow statements, statements of activity, and operating and capital budgets.

P P ADM 6340 Seminar In City Administration: 3 semester hours

This course provides an overview of the working environment of a city administrator and is jointly sponsored by the local city managers association. Professional city personnel make presentations to the students on six major topics: political structure, organizational structure, service delivery, finance, personnel policies and practices, and leadership. The course provides direct observation of city council meetings, visits to various city facilities, exposure to different philosophies and styles of city management, and provides students a chance to assemble facts, evaluate options, and present policy recommendations for real problems that local administrators face.

P P ADM 6350 Issues In Urban Management: 3 semester hours

Designed to evaluate management issues that confront managers in local government from a political perspective. The format will include an intense review and discussion of original case studies from actual local government situations. The specific focus of this course will vary. Course may be repeated.

P P ADM 6400 Proseminar In Public Administration: 3 semester hours

Same as POL SCI 6440. Examination of major approaches to analyzing public policies and their administration. Emphasis is on the effects of administrative organization and procedures on policy decisions and their impact. Specific topics may include administrative accountability, inter-governmental relations, public private interaction, implementation processes, bureaucratic expertise, the legal environment of public administration, and public service and merit issue.

P P ADM 6430 Health Care Policy: 3 semester hours

Same as GERON 6443, POL SCI 6443, and SOC WK 6443. Prerequisites: Graduate standing or consent of instructor. Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

P P ADM 6444 Seminar in Public Policy and Aging: 3 semester hours
Same as GERON 6444 and POL SCI 6444. Prerequisites: Consent of
instructor. The study of specialized issues and methods related to federal,
state, and local policies that affect the elderly. Potential policy areas to be
covered include housing, taxation, mental health, transportation, etc. May
be repeated for credit, provided the subject matter is different.

P P ADM 6460 Selected Topics In Health Care Policy: 3 semester hours

Same as POL SCI 6446. Prerequisite: consent of instructor. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

P P ADM 6490 Human Resources In The Public Sector: 3 semester hours

Same as POL SCI 6449 and SOC WK 6449. Prerequisites: P P ADM 6600 or consent of instructor. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include: personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation and labor relations including grievance arbitration and collective bargaining.

P P ADM 6500 Selected Topics in Public Policy Administration: 3 semester hours

Prerequisites: Graduate Standing. Permission of instructor may be required. A seminar of selected issues and methods relating to public policy administration. May be repeated for credit, provided the subject matter is different.

P P ADM 6501 Selected Topics in Nonprofit Management and Leadership: 3 semester hours

Prerequisites: Graduate standing. Permission of instructor may be required. A seminar of selected issues and methods relating to nonprofit management and leadership. May be repeated for credit, provided the subject matter is different.

P P ADM 6510 Urban And Regional Planning And Public Policy: 3 semester hours

Prerequisites: Graduate standing or consent of instructor. This course focuses on the interdependent processes of urbanization and public policy. Students will acquire an understanding of urban planning and public policy processes in North America.

P P ADM 6550 Strategic And Program Planning For Non Profit Organizations: 3 semester hours

Same as POL SCI 6490 and SOC WK 6491. Prerequisite: Graduate Standing or Consent of Instructor. Strategic and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

P P ADM 6600 Organizational Behavior And Administrative Processes: 3 semester hours

Same as MGMT 5600. The theoretical and research contribution of the behavioral sciences to management and administration are examined and applied to selected organizationals situations. Areas to be considered from the standpoint of both individual and organizational performance are communication, motivation, conflict, decision making, goal setting, leadership, organizational design, climate, development, and control. Utilizing a systems perspective, the course attempts to develop in each student an ability to analyze and solve organizational problems.

*P P ADM 6680 Negotiating Workplace Conflict: 3 semester hours*Same as MGMT 5612. Prerequisites: P P ADM 6600 / MGMT 5600
and Graduate Standing. Examines conflict and cooperation between individuals, groups and organizations over the control of work. A central theme is how this conflict is expressed, controlled, and resolved. Students will participate in exercises to learn the basics of two-party negotiations.

P P ADM 6750 Introduction To Evaluation Research Methods: 3 semester hours

Prerequisites: At least one course in research design and statistics at the graduate level. A comparative study of research strategies with regard to data sources, data collection, and modes of analysis that are appropriate for program evaluation research. Attention is given to observational, survey, and quasi-experimental methodologies.

P P ADM 6800 Management Information Systems: 3 semester hours Same as INFSYS 5800 This course provides an overview of the established and contemporary issues related to information systems within organizations. Topics include the practices and tools associated with topics such as the management of IS-based investment projects, the design and implementation of IS, the alignment of IS strategy with organizational strategy, information security and privacy, and gaining a competitive advantage through IS.

P P ADM 6850 Information Technology and The Public and Nonprofit Sectors: 1 semester hour

Prerequisite: Graduate Standing. This course addresses information technology in the public sector from a managerial perspective. Course goals include an increase in student's knowledge and understanding of basic hardware, software, data, and information management issues from a managerial perspective. These topics include, but are not limited to: web portal design, geographic information systems, database management, e-government, strategic design, and the use of information technology to address public policy questions.

P P ADM 6900 Cases In Public Policy Administration: 3 semester hours

Prerequisites: 24 hours of public policy administration courses, at least 15 of which are in core courses. This capstone course intensively analyzes public policy administration cases drawn from a variety of issues and settings.

P P ADM 6950 Internship: 3 semester hours

Independent study involving work with an appropriate public or private or nonprofit agency.

Pierre Laclede Honors College

The Pierre Laclede Honors College mission is to enrich the educational experience of a select group of highly motivated and intelligent undergraduates. With this in mind, it enrolls students who are ready to accept academic challenges and become creatively involved in the learning process.

The college has a unique structure and identity. Unlike the university's other colleges, it has no academic departments and it grants no degrees. Instead, it brings together a cross section of students and teachers in a special curriculum, designed to meet a portion of the students' general education and various other requirements. Programs are available to four-year and transfer students, and successful completion of the program requirements results in earning the honors certificate upon graduation.

The four year program is open to entering freshmen and extends over a student's entire undergraduate career.

The two year program is open to select third year students who are either continuing at or have transferred to the university, and a two-plus program is available for transferring sophomores.

Honors College courses are generally taught seminar style, with a stress on reading, small group discussion, and writing.

Honors College students are highly qualified and motivated individuals from a broad range of public and private secondary schools and colleges. They enter the college with diverse backgrounds and interests and remain part of it while simultaneously enrolling in classes and pursuing bachelor's degrees in other academic divisions of the university.

Most honors students major in traditional liberal arts disciplines spanning the humanities, social sciences, mathematics, and natural sciences, but well over a third use their undergraduate education to prepare for careers in business, education, nursing, or engineering. Most Honors College students plan to go on to graduate study or professional schools, although a significant number successfully seek employment immediately after graduation. Honors faculty and staff provide advice and guidance in both course choice and career plans.

The Honors College Writing Program

Both two- and four-year programs include participation in the Honors College writing program, writing through the curriculum, which involves writing in most honors seminars, as well as formal courses in composition (including HONORS 1100 and HONORS 3100 or HONORS 3160). In the final year, this culminates in the compilation of a personal Honors College writing portfolio (HONORS 4100).

Independent Study Requirement

All Honors College students, whether in the four-year or the two-year program, must fulfill a 6-credit-hour independent study requirement. This can be met in several ways, including supervised research, guided reading, internships, and in many cases capstone courses in the major.

Faculty Overview

Honors College instructors are drawn from university faculty in all academic divisions but mainly from the "traditional disciplines" of the Arts, Humanities, Social Sciences, and Sciences. These teachers share a

desire to work closely with intellectually curious, high-achieving students. Faculty design courses directed toward such an audience and based on small discussion seminars. Thus the honors faculty grows each year as new faculty join the honors project. Their talents add to the Honors College's rich instructional pool of more than 100 regular and full-time faculty, many of whose teaching and scholarship have been singled out for special awards.

In addition, the Honors College has seven full-time academic faculty members whose responsibilities (besides instruction) include admissions, student advising, and curricular design.

Honors College Certificate

Four Year Program (40 credit hours total):

Approximately one-third of the 120 hours honors students earn toward graduation are taken in the Honors College. Most of these credits are associated with a sequence of honors courses designed specifically for the college, the majority of which are taken during the first two years. During this period, these students fulfill virtually all of the university'sgeneral education requirements (p. 28), usually in innovative ways. In their junior and senior years, honors students also may earn honors credit for work done within their major fields, work which includes the possibility of internships, independent study projects, and advanced undergraduate research.

First Year

Students take HONORS 1100 (p. 498), HONORS 1200 (p. 498), and HONORS 1201 (p. 498), and one course each from the Western Traditions and Non-Western Traditions seminar series. Students may take a seminar from the American Traditions series as an elective or in place of the Western Traditions seminar.

HONORS 1110 (p. 498)	Western Traditions: Humanities	3
HONORS 1200 (p. 498)	Freshman Symposium: Cultural Traditions I	3
HONORS 1201 (p. 498)	Freshman Symposium: Cultural Traditions II	3
HONORS 1130 (p. 498)	Western Traditions: Social And Behavioral Sciences	3
HONORS 1230 (p. 498)	American Traditions: Social And Behavioral Sciences ¹	3
HONORS 1310 (p. 498)	Non-Western Traditions Series Humanities	3
HONORS 1330 (p. 498)	Non-Western Traditions Series-Social Sciences	3

Elective as an alternate to Western Traditions.

Second Year

Students take two of the following Honors classes:

HONORS 2010	Inquiries In The Humanities	3
(p. 498)		
HONORS 2020 (p. 498)	Inquiries In The Fine And Performing Arts	3
HONORS 2030 (p. 498)	Inquiries In The Social And Behavioral Sciences	3

HONORS 2050 (p. 498)	Inquiries In The Natural Sciences	1-3
HONORS 2060 (p. 498)	Inquiries In Business	3
HONORS 2070 (p. 498)	Inquiries In Education	3
HONORS 2071 (p. 498)	Inquiries in Education	4
HONORS 2080 (p. 498)	Inquiries In Nursing	3

During the first two years, honors students will take additional course work in other areas, such as mathematics, natural science, foreign language, and major prerequisite classes to satisfy various university, Honors College, and specific degree requirements.

Third and Fourth Years

Honors students in the four-year program take at least four seminars (12 credit hours) from the Advanced Seminar (3000 level series) and/ or Research Seminar (HONORS 3530 (p. 498) or HONORS 3535 (p. 498)). They may take more where this is compatible with their major and/or minor requirements. Honors students in the four year program who take HONORS 3100 (p. 498) ("Writing the City") or HONORS 3160 (p. 498) ("Writing in the Sciences") may present it for their honors certificate as one of their 3000-level seminars. They may also, depending on their major, present it to meet their graduation requirement for Junior-level composition.

HONORS 3010 (p. 498)	Advanced Honors Seminar In The Humanities	3
HONORS 3020 (p. 498)	Advanced Honors Seminar In The Fine And Performing Arts	3
HONORS 3030 (p. 498)	Advanced Honors Seminar In The Social And Behavioral Sciences	3
HONORS 3100 (p. 498)	Honors Advanced Composition: Writing The City	3
HONORS 3160 (p. 498)	Honors Writing In The Sciences	3
HONORS 3530 (p. 498)	Research Seminar In The Social And Behavioral Sciences	3
HONORS 3535 (p. 498)	Research Seminar In The Social And Behavioral Sciences	4

In addition, honors students do 6 credit hours in independent study projects, normally in or closely related to their major field. These independent study projects normally carry credit in the major, but can be done as Honors College independent study or research projects (HONORS 4900 (p. 498), HONORS 4910 (p. 498), HONORS 4915 (p. 498)). During the final year, students also take HONORS 4100 (p. 498), a one-hour capstone for the Honors College writing program; HONORS 4100 (p. 498) may be taken for two hours.

Two year Program (22 credit hours total):

Students in this program will take a combination of Honors College seminars and honors independent study credit (usually for work done in their major fields). The 22 credit hours must include 6 credits of independent study, as for the four-year program.

Third Year

During the first year of the two-year program, students take three honors seminars, including HONORS 3100 (p. 498), Writing the City or HONORS 3160 (p. 498), Writing in the Sciences; one course from the Inquiries series (2000 level); one course from either the Advanced Seminar (3000 level) or Research Seminar (HONORS 3530 (p. 498) or HONORS 3535 (p. 498)). In addition, 3 credit hours of independent study may be taken during this year, normally in or closely related to their major.

Fourth Year

The final year of the two-year program involves three courses chosen from the 3000 and 4000 level options, including HONORS 4100 (p. 498), the honors writing portfolio, and at least one course chosen from the 3000 level. In addition, students will complete their independent study requirements with 3 or 6 hours of project, internship, or research work.

Honors and Nursing; Honors and Engineering

Because of the extensive professional requirements for both Nursing and Engineering, the Honors College has, with the support of the relevant faculties, created special programs for Nursing and Engineering majors who wish to pursue the Honors College certificate. Both programs feature reduced Honors College credit hour requirements but retain the core of the Honors program and give students ample opportunities to experience interdisciplinary inquiry, seminar-based learning, and take part in the Honors College Writing Program.

Honors and the Bachelor of Liberal Studies (BLS)

Pierre Laclede Honors College students who wish to present the honors Certificate as a minor for the BLS must complete the Honors Capstone (HONORS 4100, one or two credit hours) and also direct three to six hours of their Honors independent study requirement as part of their BLS program. Students should consult the BLS faculty advisor in the Honors College about this requirement, as well as an Arts and Sciences advisor.

Pierre Laclede Honors College Student Learning Outcomes.

Both four- and two-year programs share the same learning agendas:

- Through coursework comparing and contrasting diverse cultural viewpoints, academic disciplinary approaches and information, Honors students will demonstrate the ability to synthesize knowledge from various perspectives.
- Honors students will exhibit the ability to communicate effectively in speech and writing:
 - by speaking in groups to present, reflect on and evaluate information and perspectives.
 - by completing the written assignments required in all Honors courses that focus on various perspectives, audiences and disciplinary approaches(demonstrating effective writing that employs correct diction, syntax, usage, grammar and mechanics.
- Honors students will demonstrate skills in higher-order thinking, valuing and managing information:
 - by exhibiting the ability to distinguish among opinions, facts and inferences; by identifying underlying or implicit ins assumptions;

by making informed judgments; and by solving problems through applying evaluative standards.

- by locating, accessing, synthesizing and annotating information from print, electronic, and other sources; by distinguishing between scholarly and non-scholarly sources in preparation for higher-order thinking.
- by analyzing and synthesizing information from a variety of sources, applying the results to resolving complex situations and problems, and defending conclusions using relevant evidence and reasoned argument.
- by utilizing cultural, behavioral, and historical knowledge to clarify and articulate a personal value system while recognizing the ramifications of personal value decisions on the self and others.
- by identifying conflicts within and between multiple perspectives and value systems; by recognizing and analyzing ethical issues in a variety of contexts; and by employing standards of logic to formulate a reasonable position among multiple perspectives.
- Honors students will select and participate in Honors courses in various
 disciplines and will demonstrate essential skills and approaches
 relevant to those disciplines: Students participating in Honors courses
 in disciplines such as the social sciences, life and physical sciences
 that rely upon the understanding of fundamental mathematical concepts
 and their applications will display a level of quantitative literacy that
 would enable them to understand and analyze quantitative data, draw
 conclusions, and solve problems.
- Students participating in Honors courses in the social and behavioral sciences will exhibit understanding of themselves and the world around them through the study of the content and methodologies used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems; they will demonstrate understanding of the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others.
- Students participating in Honors courses in the humanities and fine
 arts will exhibit understanding and critical analysis of the ways in which
 people have addressed their condition through literature and art; they
 will demonstrate their understanding of these cultural works and their
 historical circumstances; they will formulate aesthetic judgments of
 these works.
- Students participating in Honors courses focusing on life and physical sciences will demonstrate knowledge of scientific principles, research procedures and empirical methods of scientific enquiry; they will display their understanding of how scientific discoveries affect and are affected by theoretical views of the world and human history.
- Honors students will complete specific Honors requirements designed to develop their awareness of career and advanced study opportunities:
 - by participating in internships, independent study and undergraduate research to develop and demonstrate advanced knowledge in a discipline, professional skills, and greater understanding of career and educational goals.
 - by creating an Honors Writing Portfolio that demonstrates the ability to assess their writing skills and development; by devising and revising documents for employment searches or graduate school applications to enhance their ability to formulate and pursue specific career goals.

Other Academic Features and Requirements

Satisfactory/Unsatisfactory

The satisfactory/unsatisfactory option does not apply to any course work undertaken for Honors College credit.

Admission and Retention

To be considered for admission to either the two-year or four-year honors program, a candidate must file a special Honors College application, as well as a general university application. These application forms and additional information concerning scholarship awards, general eligibility guidelines, and the admissions process are available from the Honors College admissions office at (314) 516-7769 or from the University Admissions. See also the Honors College website.

Scholarships

Every new freshman or transfer student admitted in good standing to the Honors College receives academic scholarship support. Students continue to receive these awards as long as they meet the criteria associated with their particular scholarship.

Good academic standing To remain in good standing, a student must maintain a cumulative GPA, in all his or her UMSL courses, of at least 3.2, and must continue to meet the requirements of the honors program for which he or she was initially admitted. Unless other arrangements have been made, Honors College students are also expected to be full time, that is, to register for and satisfactorily complete at least 12 credit hours per semester. Students wishing to enter the Honors College as part-time students or to change to part-time status must make prior arrangements with the Honors College dean or associate dean.

UMSL: An Urban Land Grant Institution

Given its location in St. Louis, and because it is part of an urban land grant university, Pierre Laclede Honors College seeks to encourage awareness of the manifold benefits of pursuing an undergraduate education in a dynamic and varied urban community. This is accomplished partly through the Honors Curriculum through facilitating cultural and other outings in the city, and by encouraging students to include in their academic program courses, research projects, and/or internships which exploit the university's manifold connections with city people and its partnerships with leading city institutions such as the Missouri Botanical Gardens, the Missouri Historical Society, and the Mercantile Library of St. Louis. Many honors students fulfill all or part of their independent study requirements working through such partnerships.

International Study and Other Exchange Programs Honors students are encouraged to consider a semester's or a year's study at another institution. This can be done through the University's Center for International Studies, which administers exchanges with more than 70 universities in Europe, Africa, Asia, Australia, and South and Central America as well as the Missouri-in-London program. Students not wishing to go abroad may, through the National Student Exchange, attend any one of more than 100 universities in the United States, Puerto Rico, Guam, and Canada. Students should contact International Studies and Programs if they are interested in the National Student Exchange Program.

Please note that students in the Honors and International Business program are normally required to spend their exchange study through the Center for International Studies.

Courses

HONORS 1100 Freshman Composition: 3 semester hours

Prerequisite: Consent Of The Dean Of The Honors College. Theory And Practice Of Writing Expository Prose. Emphasis On Individual Tutorial. Assignment Will Be Linked With Topics Discussed In Honors 101.

HONORS 1110 Western Traditions: Humanities: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College All Western Traditions seminars will be based on the reading and discussion of works of exceptional importance in the development of western culture and civilization. The works to be discussed in each seminar will follow a central theme (defined by its particular relevance to the traditional academic disciplinary areas of the humanities, arts, social sciences, mathematics, or sciences) but will relate that theme to wider developments in Western Traditions and to the American concept of a liberal education.

HONORS 1111 Western Cultural Traditions And Critical Thinking: 3 semester hours

This core course combines critical thinking skills with Western Cultural Studies and includes lectures, movies, small group projects and discussions.

HONORS 1130 Western Traditions: Social And Behavioral Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College All Western Traditions seminars will be based on the reading and discussion of works of exceptional importance in the development of western culture and civilization. The works to be discussed in each seminar will follow a central theme (defined by its particular relevance to the traditional academic disciplinary areas of the humanties, arts, social sciences, mathematics, or sciences) but will relate that theme to wider developments in Western Traditions and to the American concept of a liberal education.

HONORS 1150 Western Traditions: The Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College All Western Traditions seminars will be based on the reading and discussion of works of exceptional importance in the development of western culture and civilization. The works to be discussed in each seminar will follow a central theme (defined by its particular relevance to the traditional academic disciplinary areas of the humanities, arts, social sciences, mathematics, or sciences) but will relate that theme to wider developments in Western Traditions and to the American concept of a liberal education.

HONORS 1200 Freshman Symposium: Cultural Traditions I: 3 semester hours

Course surveys Western and Non-Western cultural Traditions from their beginnings until 1800. It will introduce the intellectual traditions of a wide variety of cultures through major works of literature, religion and philosophy.

HONORS 1201 Freshman Symposium: Cultural Traditions II: 3 semester hours

Prerequisite: Consent of the Dean of the H.C. Course surveys Western and Non-Western Cultural Traditions from the 1800's to current times. It will introduce intellectual traditions of a wide variety of cultures through major works of literature, religion and philosophy.

HONORS 1230 American Traditions: Social And Behavioral Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Honors seminars in the American Traditions series involve reading and discussion of texts of major importance in the development of the culture, politics, ideologies, and values which are or have been characteristic of the United States of America. Every American Traditions seminar will cover a broad range of time, and each may include contemporary issues. HONORS 1230 (Social Sciences) satisfies the American history and government requirement, and any course in the American Traditions sequence may be taken to satisfy one of the 'core' requirements for the American Studies Minor.

HONORS 1310 Non-Western Traditions Series Humanities: 3 semester hours

Prerequisite: Consent of the Dean of the H.C. Seminars focus on different topics in the humanities but address themes and problems in non-western cultures that are related to the freshmen core classes (Honors 1200 and 1201). These topics will be examined in depth through reading discussion, and students will produce formal papers and participate in individual or small group presentations.

HONORS 1330 Non-Western Traditions Series-Social Sciences: 3 semester hours

Prerequisite: Consent of the Dean of the Honors College Seminars focus on different topics in the social sciences but address themes and problems in non-western cultures that are related to the freshmen core classes (Honors 1200 and 1201). These topics will be examined in depth through reading discussion, and students will produce formal papers and participate in individual or small group presentations.

HONORS 1410 Freshman Seminar In Humanities: 3 semester hours
Seminars focus on different topics in the humanities but address themes
and problems in the western cultural traditions that are related to the
freshmen core classes (Honors 1200 and 1201). These topics will
be examined in depth through reading and discussion, and students
will produce formal papers and participate in individual or small group
presentations.

HONORS 1430 Freshman Seminar In The Social Sciences: 3 semester hours

Seminars focus on different social science topics but address themes and problems in the western cultural traditions that are related to the freshmen core courses (Honors 1200 and 1201). Topics will be examined in depth through reading and discussion, and students will produce formal papers and participate in individual or small group presentations.

HONORS 2010 Inquiries In The Humanities: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one of more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2020 Inquiries In The Fine And Performing Arts: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College. Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2030 Inquiries In The Social And Behavioral Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2050 Inquiries In The Natural Sciences: 1-3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2051 Inquiries in the Sciences: Laboratory or Field Work: 1 semester hour

Prerequisites: Permission of Honors Dean. This course develops students' understanding of how the experimental procedures of the life and physical sciences are used to collect data and to develop and test scientific hypotheses. HONORS 2051 is taken as a required companion course to specific sections of HONORS 2050, (Inquiries in the Sciences), when laboratory or field work experience is essential to students' understanding of and competence in the scientific subject matter of the companion section of HONORS 2050.

HONORS 2060 Inquiries In Business: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2070 Inquiries In Education: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2071 Inquiries in Education: 4 semester hours

Prerequisite: Consent of the dean of the Honors College. Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate, laboratory work or field trips will enhance students; understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. Honors 2071 meets College of Education requirements for Teaching and Learning 2209.

HONORS 2080 Inquiries In Nursing: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Inquiries seminars focus on the particular contributions academic disciplines can make to relatively broad areas of inquiry, and reading, discussion, writing and where appropriate laboratory work or field trips will enhance students' understanding of the strengths, frailties, and particular characteristics of one or more disciplinary strategies. Inquiries courses may be used to meet relevant General Education requirements. Where special arrangements have been agreed, they can meet more specific departmental and divisional requirements. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 2310 Cultural Diversity In The Humanities: 3 semester hours

This seminar focuses upon cultural diversity themes, texts, and perspectives within the humanities.

HONORS 2330 Cultural Diversity In The Social Sciences: 3 semester hours

This seminar focuses upon cultural diversity themes, texts, and perspectives within the social sciences.

HONORS 3010 Advanced Honors Seminar In The Humanities: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College. Open only to Honors College students and not acceptable for graduate credit. Usually restricted to Juniors and Seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multidisciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 3020 Advanced Honors Seminar In The Fine And Performing Arts: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Usually restricted to Juniors and Seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multidisciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 3030 Advanced Honors Seminar In The Social And Behavioral Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Usually restricted to Juniors and Seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multidisciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 3060 Advanced Honors Seminar In Business: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Usually restricted to Juniors and Seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multidisciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 3070 Advanced Honors Seminar In Education: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Usually restricted to Juniors and Seniors, these advanced seminars focus on in-depth study of a significant body of subject matter. The perspective employed will normally be interdisciplinary or multidisciplinary and will underscore the value of making connections between diverse areas of study. These courses will not usually require specific prerequisites, but may (with the consent of the appropriate department or division) be taken as major or minor courses. The course number may be repeated for credit whenever the topic is substantially different.

HONORS 3075 Reflective Research in Education: 2-3 semester hours

Prerequisites: Consent of Honors College Dean. Students will explore issues and trends in educational research from the perspectives offered by their own classroom experiences (as students and/or as teaching interns). Through individual research projects, discussions, and periodic status reviews, students will gain in understanding how major educational research issues arise from and interact with curriculum design and classroom pedagogy. Students who have already taken HONORS 2071 (Foundations of Teaching in American Schools) will take the course for two (2) credits.

HONORS 3100 Honors Advanced Composition: Writing The City: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Enhances critical thinking, research, discussion and writing skills by focusing on the city of St. Louis and on the specific fields of study of those enrolled in the course. Issues such as depth and development of content, voice, style, tone, correct expression, and research techniques are among the topics emphasized. Students maintain a Commonplace Book of journals, drafts, and creative writings; they also submit a minimum of four formal papers. This course is required for transfer students (two-year Honors Program) and an elective for students on the four-year program. For students on either program, HONORS 3100 meets the Advanced Composition requirement of the University.

HONORS 3160 Honors Writing In The Sciences: 3 semester hours

Prerequisites: Junior-level standing This honors course, designed to meet the needs for students in the science disciplines, will satisfy the campus junior-level writing requirement. The course will stress writing observation reports, academic journals, laboratory reports and a major project suited to the specific area of study of each student enrolled in the class. Instruction will include correct documentation of science sources, synthesis techniques of research information, technology-based research skills and effective laboratory reporting methods. Four formal papers, including one large project, and several informal papers will be required for this challenging course.

HONORS 3530 Research Seminar In The Social And Behavioral Sciences: 3 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Modeled on and for some students affording a preview of the postgraduate or professional research seminar, Honors Research seminars bring students face to face with primary research, as appropriate in the library, the laboratory, and/or field work, utilizing appropriate disciplinary perspectives and secondary reading. These courses may be cross-listed with other advanced courses in appropriate departments/divisions of the university, and as such may carry specific course prerequisites and/or require the specific consent of the instructor.

HONORS 3535 Research Seminar In The Social And Behavioral Sciences: 4 semester hours

Prerequisites: Consent of the Dean of the Honors College and consent of instructor. Course material based on primate behavior, demographics, and morphology. Research techniques for ethological and primatological studies, including the design of research protocols, development of data collection methodologies, analysis of morphological and behavioral data, and the scientific description of findings. Students are required to conduct observations of primates at the St. Louis Zoo and participate in the Undergraduate Research Symposium.

HONORS 4100 Independent Portfolio Writing: 1-2 semester hours

Prerequisites: Senior status. Students in this course will meet with their instructor on a regular basis to discuss and revise their writing portfolio and write their master resume, career or academic resume, personal statements for graduate school, or other projects for careers or their futures. The course is required to be at least one hour and may be taken for two hours to allow for more personal time and assistance from the instructor.

HONORS 4900 Independent Study In Honors: 1-6 semester hours

Prerequisites: Consent of the Dean of the Honors College Open only to Honors College students and not acceptable for graduate credit. Most Honors students will fulfill their Honors independent study requirements in another department or division of the university. Where this is not possible, and where academic credit seems an appropriate reward for the independent study in question, the project may be undertaken as HONORS 4900, normally as a 3-credit course. This will involve substantial reading, research, and/or field work, and will be supervised by a permanent member of the Honors College academic staff. Completed proposal forms for this course must be submitted to the Honors College not later than the deadline for university registration.

HONORS 4910 Independent Study: Internships: 1-6 semester hours

HONORS 4915 Honors Independent Off-Campus Internship: 1-6 semester hours

Prerequisites: Approval from Honors Dean This course is designed for 1 to 6 hours for an outside internship, approved by the Honors College. The student will not be on campus for the hours of this internship and most work for the internship will be submitted online to the Honors Internship Faculty Member.

School of Social Work

General Information

The School of Social Work at the University of Missouri-St. Louis includes the Social Work and Gerontology programs. The School's faculty are distinguished scholars committed to excellence in teaching and research in a wide range of specialties. These include child welfare, gerontology, community organization, addictions, social service policy, and international social work. The School's programs work closely with agencies in the St. Louis region, and students are able to select internships from more than 400 area social service agencies.

Social work prepares students for professional practice in schools, juvenile and adult courts, hospitals, community development agencies, counseling agencies, agencies serving older adults, state social service agencies, and other organizations and agencies serving individuals, families, groups and communities.

Gerontology is an interdisciplinary program with faculty from anthropology, biology, economics, nursing, optometry, psychology, and social work. Students may also take courses in Business Administration or Nonprofit Management.

Degrees offered

Bachelor of Social Work (BSW) Masters in Social Work (MSW)

With concentrations in:

- · Family Practice
- Social Work Leadership and Management
- Gerontology

Master of Science in Gerontology (MSG) Undergraduate Certificate in Gerontological

Studies Graduate Cortificates in Gerentology and

Graduate Certificates in Gerontology and Long-Term Care Administration

Courses may be completed through day or evening coursework (BSW) or through evening courses (MSW, MSG). Credit courses are also offered off-campus though University Outreach.

Gerontology

Career Outlook

With our growing aging population, the career outlook for gerontology is strong and will continue to be for decades to come. Professionals with specialized training in gerontology find meaningful work in a variety of settings, including management and marketing positions in the senior housing and long-term care industries, program coordination and direct service positions in nonprofit, government and for-profit senior service organizations, in the growing field of Geriatric Care Management, as counselors and support group leaders, and as members of multidisciplinary teams in hospice organizations and other healthcare organizations.

Faculty Overview

Faculty from various departments, colleges and schools are involved in the undergraduate and graduate programs in gerontology.

Undergraduate Certificate in Gerontological Studies

A certificate in gerontological studies, a multidisciplinary course of study, is available at the University of Missouri-St. Louis. This program provides an opportunity for students to obtain a focused specialty in gerontology in addition to their majors. It is appropriate for students in any of the colleges of the University.

Certificate Requirements

A student may earn the certificate in gerontological studies by completing a total of 15 hours. The student must meet with the Director of Gerontology to develop a balanced plan of study. No more than 3 credit hours from Research/ Practicum Experience courses will be allowed. The student must have the approval of the director of the gerontology program before enrolling in the course. Courses taken to fulfill the requirements may not be taken on a satisfactory/unsatisfactory basis. New courses continually are added, so it is advisable to check with the director each term. Many courses are crosslisted and also have a gerontology designation.

Humanities

GERON/PHIL 2256 (p. 505)	Bioethics	3
Social Sciences		
GERON/INTDSC 1220 (p. 505)	Special Topics In Gerontology	3
GERON/PSYCH 2272 (p. 505)	Developmental Psychology: Adulthood And Aging	3
GERON/PSYCH 2280 (p. 505)	Psychology Of Death And Dying	3
GERON/ ANTHRO 3215 (p. 505)	Aging Across Cultures	3
GERON/SOC 4361 (p. 505)	Social Gerontology	3
GERON/PSYCH/ SOC WK 4376 (p. 505)	Mental Health And Aging	3
GERON 4490 (p. 505)	Directed Readings	1-3
GERON/SOC WK 4680 (p. 505)	Introduction to Gerontological Practice	3
GERON 4700 (p. 505)	Successful Aging: Individual & Societal Perspectives	3

Master of Science in Gerontology

The Master of Science degree in gerontology program is a multidisciplinary program designed to prepare students for program management or direct service positions working with, and on behalf of, older adults and their family members. The program of study includes courses from a variety of departments including Anthropology, nursing,

psychology, sociology, social work, public policy administration, and optometry. Courses are offered primarily in the evening to accommodate parttime as well as fulltime students.

Learning Outcomes

- · A detailed appreciation for the aging process with respect to successful aging, health status, physical functioning, cognition and capacity, psychosocial involvement, diversity, cultural influences and competence, and public policy;
- · An ability to integrate theoretical perspectives on aging with the practical needs and concerns of individuals in various living
- An ability to interpret and appropriately utilize research findings to inform daily practice, especially with respect to screening, assessment, intervention, and referral activities;
- Professional competence in the areas of ethical practice, participation in multidisciplinary teams, communication with clients and families, assessment and intervention.

Admission Requirements

Program applicants must have the following:

- · Baccalaureate degree.
- · 3.0 or B average (students with exceptions should contact the director of the gerontology program).
- Official transcripts of all previous undergraduate/graduate work.
- · Three letters of recommendation (from former instructors preferred; from professional associates acceptable).

In addition, students must meet the other general requirements for admission to the Graduate School as explained in the Graduate Study section of the Bulletin.

Degree Requirements

The students are required to complete 36 credit hours, including 30 hours in gerontology and related courses and 6-hours of statistics/research courses. The required courses and electives are listed below. Once a requirement is met, courses from this list may also serve as electives.

Gerontology Distribution Requirements

A. Public Policy

Select one of the following: GERON 6443/ Health Care Policy P P ADM 6430/ POL SCI 6443 (p. 505) GERON 6444/ Seminar In Public Policy And Aging SOC WK 6443/ P P ADM 6444/ POL SCI 6444 (p. 505)

B. Health and Physical Aspects of Aging

Select one of the following: GERON 6441 Aging And Health Behavior (p. 505) GERON 6470 Epidemiology of Aging (p. 505)

C. Sociocultural Aspects of Aging

Select one of the following: 3 GERON/ Cultural Aspects Of Aging ANTHRO 5440 (p. 505) GERON 5361 Advanced Social Gerontology (p. 505) D. Clinical and Psychosocial Aspects of Aging Select two of the following: GERON 5376 Psychopathology And Aging (p. 505) GERON/SOC Theory and Practice with Older Adults WK 6120 (p. 505) GERON/SOC Interviewing Older Adults And Life Review WK 6130 (p. 505) GERON/SOC Gerontological Assessment WK 6450 (p. 505) E. Practica in Gerontology

Select two of the	following:	6
GERON 6495 (p. 505)	Practicum In Gerontology (required)	
GERON 6496 (p. 505)	Advanced Practicum In Gerontology	
GERON 6500 (p. 505)	Practicum in Geronotological Research	
	1	

F. Gerontology Electives

Once a requirement is met, any course from the listing below can serve as an elective.

G. Graduate-level statistics course 6 3 credits and graduate level research methods course $^{\mathrm{2}}$ **Total Hours** 36

9

- Program Administration Option (see below)
- Students should consult Director of Gerontology for approved courses.

Program Administration Option

Students interested in emphasizing program administration qualifications as part of the MSG may request to apply their 9 elective credits towards earning a Certificate in Nonprofit Management & Leadership offered through Public Policy Administration. Students interested in this option must meet with the Certificate Director and request admission by the end of their second semester in the MSG Program. If admitted, the Director of Gerontology and the Certificate Director will work cooperatively to arrange a joint plan of study to meet objectives of both degrees within the 36 credits required for the MSG. Both practicum courses (GERON 6495 (p. 505) & GERON 6496 (p. 505)) must emphasize program administration as part of this plan.

Graduate Certificate in Gerontology

The graduate certificate in gerontology is designed for students who wish to receive post-baccalaureate training in gerontology. The certificate can be taken by itself or in conjunction with pursuit of a graduate degree in another field. Eighteen credit hours are required.

Admission Requirements

Program applicants must have the following:

- · Baccalaureate degree.
- 3.0 grade point average (students with exceptions should contact the director of the gerontology program).
- Official transcripts of all previous undergraduate/ graduate work.
- Two letters of recommendation.

Students already enrolled and in good standing in another masters or doctoral degree program at the University of Missouri – St. Louis should consult with the director of the gerontology program concerning streamlined admission options.

Distribution Requirements

A. Public Policy

(p.505)

Total Hours

Another elective course from the listing below.

A. Fublic Folicy		
Select one of the	following:	3
GERON/POL SCI 6443 (p. 505)	Health Care Policy	
GERON/P P ADM/POL SCI 6444 (p. 505)	Seminar In Public Policy And Aging	
B. Health and Ph	ysical Aspects of Aging	
Select one of the	following:	3
GERON 6441 (p. 505)	Aging And Health Behavior	
GERON 6470 (p. 505)	Epidemiology of Aging	
C. Sociocultural	Aspects of Aging	
Select one of the	following:	3
GERON/ ANTHRO 5440 (p. 505)	Cultural Aspects Of Aging	
GERON 5361 (p. 505)	Advanced Social Gerontology	
D. Clinical and P	sychosocial Aspects of Aging	
Select two of the f	following:	6
GERON 5376 (p. 505)	Psychopathology And Aging	
GERON/SOC WK 6120 (p. 505)	Theory and Practice with Older Adults	
GERON/SOC WK 6130 (p. 505)	Interviewing Older Adults And Life Review	
GERON/SOC WK 6450 (p. 505)	Gerontological Assessment	
E. Elective		
Select one of the	following:	3
GERON 6495	Practicum In Gerontology	

Courses

GERON 1220 Special Topics In Gerontology: 3 semester hours

Same as INTDSC 1220 Selected topics dealing with various aspects of gerontology. The specific contents of this course will vary from semester to semester. The course may be repeated with permission from the Gerontology director.

GERON 2256 Bioethics: 3 semester hours

Same as PHIL 2256. An examination of ethical issues in health care practice and clinical research and in public policies affecting health care. Topics include: abortion, euthanasia, health care, experimentation, informed consent and the right to health care.

GERON 2272 Developmental Psychology: Adulthood And Aging: 3 semester hours

Same as PSYCH 2272. Prerequisites: PSYCH 1003. Personality social and physiological development from the onset of early adulthood through maturity and old age.

GERON 2280 Psychology Of Death And Dying: 3 semester hours

Same as PSYCH 2280. Prerequisite: PSYCH 1003. A beginning exploration of end-of-life issues integrating the scholarly, social, and individual dimensions of death and dying. This course provides a solid grounding in theory and research, as well as practical application to students' lives.

GERON 3215 Aging Across Cultures: 3 semester hours

Same as ANTHRO 3215. Prerequisites: ANTHRO 1011 or PSYCH 1003 or SOC 1010, or consent of instructor. This course examines the wideranging variability in the roles of older people across different cultures and the effects these have on older people, their families, and their societies.

GERON 4361 Social Gerontology: 3 semester hours

Same as SOC 4361. Prerequisites: SOC 1010 and junior standing or consent of instructor. Topics include: sociological theories of aging, technological and social change and its effects on the environment of older people, and prejudice and discrimination against the elderly.

GERON 4376 Mental Health And Aging: 3 semester hours

Same as PSYCH 4376 and SOC WK 4376. Prerequisites: 9 hours of psychology, graduate standing, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) This course provides a survey of theory and research in mental health issues for older populations, focusing on psychological and social aspects of mental health and impairment. The course details approaches to understanding prevalence, etiology, assessment, and treatment of the psychological disorders most commonly experienced by older adults, including anxiety, depression, delirium, and dementia, among others.

GERON 4490 Directed Readings: 1-3 semester hours

Prerequisites: Consent of instructor Directed reading and research or field work. May be repeated for a maximum of three hours.

GERON 4680 Introduction to Gerontological Practice: 3 semester hours

Same as SOC WK 4680. Prerequisites: Advanced undergraduate or graduate standing. This course introduces key concepts and practices in the evaluation and care of older adults. It is intended for students considering aging-focused careers in the social service or healthcare fields. Topics include developmental and health-related theories of aging, functional and psychosocial aspects of aging, working with older adults in various service settings, multi and interdisciplinary team approaches, and basic standards of professional conduct that apply across professions.

GERON 4700 Successful Aging: Individual & Societal Perspectives: 3 semester hours

This course addresses key components of successful aging including avoidance of disease, maintenance of good mental and physical function, and sustained engagement in life. Students become familiar wit the different intra- and extra-personal determinants of successful aging and learn to distinguish between the concepts of successful and productive aging. Also discussed is the impact of societal, economic and political context on success in aging (e.g. health care delivery, entitlement programs, technology, globalization, volunteerism, and culture).

GERON 5361 Advanced Social Gerontology: 3 semester hours

Prerequisites: Graduate Standing. An examination of sociological theories of aging, technological and social change and its effects on the environment of older people, and prejudice and discrimination against the elderly.

GERON 5376 Psychopathology And Aging: 3 semester hours

Prerequisites: Graduate Standing Recent theory and research in mental health issues for older populations. The primary focus is on major psychological disorders prevalent among older adults and in assessment and treatment approaches for aging populations.

GERON 5420 Research Methods and Analysis: 3 semester hours

Prerequisites: Admission to the MSG Program or graduate standing. The first of a two-course sequence designed to provide students with the knowledge base and skills for using scientific method to advance gerontological knowledge, theory and evidence-based practice. Focuses on research methods employed in aging-related studies, with a special emphasis on the critical evaluation of academic studies and the evidentiary basis of key findings. Covers quantitative and qualitative approaches, research design, sampling procedures, measurement, use of results, impact of research, and ethical considerations.

GERON 5440 Cultural Aspects Of Aging: 3 semester hours

Same as ANTHRO 5440. Prerequisites: Graduate status or consent of the instructor. Focuses on the variety of solutions encountered in different sociocultural contexts for dealing with the problems, challenges and opportunities of growing old. It is organized around topics that are of concern to both anthropology and social gerontology: the status of the aged, intergenerational relations, aging in modernizing societies, ethnic dimensions of aging in complex societies, health in later life, death and dying. Both in-depth case studies and cross-cultural comparisons are examined in an effort to arrive at a culturally informed assessment of factors affecting aging and the aged in the United States.

GERON 5610 Mechanisms Of Aging I: The Aging Body: 1 semester hour

Same as SOC WK 5610 and PSYCH 5610 Prerequisites: Graduate standing and BIOL 1102 or equivalent. (MSW students normally take all foundtion courses prior to enrolling in this course.) Introduces students with a social science/humanities background to the normal changes in the biology and chemistry of the aging human body and how these changes affect behavior.

GERON 5611 Mechanisms Of Aging II: The Aging Brain: 1 semester

Same as SOC WK 5611 and PSYCH 5611. Prerequisites: GERON 5610 or SOC WK 5610 or PSYCH 5610 or equivalent, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background a basic introduction to the biology and chemistry of the aging human brain and nervous system and how these systems impact behavior.

GERON 5612 Mechanisms Of Aging III: Diseases Of Aging: 1 semester hour

Same as SOC WK 5612 and PSYCH 5612. Prerequisites: GERON 5610 and GERON 5611 or SOC WK 5610 and SOC WK 5611 or PSYCH 5610 and PSYCH 5611 or equivalent, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background with information on how diseases associated with aging exacerbate the effects of aging on the human body, mind, and behavior.

GERON 5620 Dying, Grief & Death in Older Adulthood: 3 semester hours

Same as SOC WK 5620. Prerequisite: Six hours of graduate level gerontology, psychology, counseling and/or social work coursework, or special approval from the instructor. Undergraduates in their senior year may also request approval for entry from the Director of Gerontology. For those planning to work with older adults in counseling, healthcare, hospice, and/or community support settings. Will examine trajectories to death in older age, the dying process, influences of medical and aging-related conditions, euthanasia and suicide, life extension and longevity, personal beliefs and existential responses, how individuals and families cope, ethical concerns, and strategies for supportive intervention. Topics are addressed from clinical, supportive care, and interdisciplinary perspectives.

GERON 5992 Internship In Physical Gerontology: 1-10 semester hours

Same as PHY ED 5992. Prerequisites: PHY ED 1190 or consent of instructor. Supervised clinical experience in selected gerontological settings as a physical education practitioner under the supervision of university and program professionals. Internship may include two or more separate experiences completed concurrently or sequentially and involve planning of instruction, participant and program evaluation., research, and related activities.

GERON 6120 Theory and Practice with Older Adults: 3 semester hours

Same as SOC WK 6120. Prerequisites: Graduate Standing. Examines theory and empirically-based assessment and intervention models for work with the elderly. It includes the life circumstances of older adults and how that differs from younger adult populations; how ethnicity, gender, social class, and sexual orientation interact with age and create special intervention issues; discussion of ethical and value issues (e.g. client autonomy, rationing of health care); examination of family and community resources in providing care; and interventions with physically or mentally disabled elders and elders in residential settings.

GERON 6130 Interviewing Older Adults And Life Review: 3 semester hours

Same as SOC WK 6130. Prerequisite: Graduate Standing. This course combines training in interviewing techniques with video editing/production. Students will learn how to conduct life review interviews with older adults, and then take these skills into the community by interviewing older adults living in various settings. Students will learn how to use a digital video camera and edit video clips on the computer. Student-conducted interviews will be viewed by the instructor and classmates, issues associated with aging will be discussed, and constructive feedback provided. Some of the video clips developed in the course will become part of an educational video clip library.

GERON 6441 Aging And Health Behavior: 3 semester hours

Same as PSYCH 6441. Prerequisite: Graduate standing. This course examines sociocultural influences on health care practices of older adults. The role of social support and other social resources in the health behavior of older adults is emphasized. Topics include self care decisions, formal service utilization, family caregiving, and planned interventions for older adults.

GERON 6442 Minority Aging: 3 semester hours

The experience of aging for racial and ethnic minority elderly will be examined in the context of their families, communities, and society. Key questions concerning minority elderly frame the course, such as the relative importance of culture versus social structure, and the applicability of gerontological theory to the minority aging experience.

GERON 6443 Health Care Policy: 3 semester hours

Same as P P ADM 6430, POL SCI 6443, and SOC WK 6443.

Prerequisites: Graduate standing or consent of instructor. Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

GERON 6444 Seminar In Public Policy And Aging: 3 semester hours
Same as P P ADM 6444, and POL SCI 6444. The study of specialized
issues and methods related to federal, state, and local policies that affect
the elderly. Potential policy areas to be covered include: housing, taxation,
mental health, transportation, etc. May be repeated for credit, provided the
subject matter is different.

GERON 6449 Issues In Retirement: 3 semester hours

Prerequisites: Graduate standing. This course examines macro and micro issues of retirement in the United States--its processes, causes, and consequences--in relation to economic market conditions, demographic changes, and programs and policies that are targeted to support the elderly (e.g., Social Security). It also examines issues relating to older women and retirement.

GERON 6450 Gerontological Assessment: 3 semester hours

Same as SOC WK 6450. Prerequisite: Graduate standing. This course provides an overview of psychosocial assessment with older adults and their family caregivers. major areas of gerontological assessment practice are considered, including dementia, mood disorders, suicide, grief, alcoholism, elder abuse/neglect, family caregiving, and interdisciplinary team issues.

GERON 6460 Long Term Care Administration: 3 semester hours

Prerequisite: Graduate Standing This course provides an overview of long term care programs and services for older adults. Administrative issues are reviewed, including patient services, state licensure requirements, human resource management, and reimbursement practices. Characteristics of well-functioning facilities are addressed, as well as consultation with families during the placement decision process.

GERON 6470 Epidemiology of Aging: 3 semester hours

Prerequisites: Graduate Standing. This course reviews the distribution and determinants of health-related conditions and functional concerns in older populations. An emphasis is placed on key concepts and methodological considerations for conducting epidemiological studies. Students learn abut the epidemiology of selected diseases, syndromes and conditions common to older age, including various trajectories of physical and cognitive decline. Also discussed are the roles that epidemiological data play in the development of interventions to control and prevent age-related disease and inform public health decision-making and evidence-based geriatric practice.

GERON 6490 Directed Study: 1-3 semester hours

Prerequisite: Consent of Instructor. Designed to give the student an opportunity to pursue a more in-depth study of a problem area in gerontology than is normally covered in more formal courses. May be repeated for a total of six credit hours.

GERON 6495 Practicum In Gerontology: 3 semester hours

This course provides supervised work experience in an agency that serves older adults. Students are required to complete a minimum of 150 clock hours at the practicum site.

GERON 6496 Advanced Practicum In Gerontology: 3 semester hours

Prerequisites: GERON 6495 and consent of instructor This course provides advanced practicum experience beyond GERON 6495. Students must complete a minimum of 150 clock hours of supervised field work (service or research) with older adults.

GERON 6497 Interdisciplinary Geriatric Care: 3 semester hours

Prerequisites: Consent of instructor. Same as VIS SCI 6497. Interdisciplinary approaches that address the medical, social, instrumental and functional needs of older adults will be examined. Information about geriatric care management and social issues affecting the well-being of older adults will be provided. Clinical, theoretical, and educational perspectives will be presented.

GERON 6498 Advanced Seminar In Gerontology: 3 semester hours

Prerequisite: Graduate standing. This course will provide in-depth analysis of specialized topics in gerontology which are not covered in required courses. (Course may be repeated for a maximum of nine credits, assuming topics are different.).

GERON 6499 Topics In Gerontology: 1-2 semester hours

Prerequisite: Graduate standing. Analysis of a current problem in gerontology. (Course may be repeated for maximum of five credits, assuming topics are different.).

GERON 6500 Practicum in Geronotological Research: 3 semester hours

Prerequisites: GERON 6495 and consent of the instructor. A supervised social science research experience involving a combination of two or more of the following activities: literature review, hypothesis generation, study design and proposal, IRB application, participant recruitment, data collection, data management, data analysis, and report/article generation.

GERON 6510 Directed Research in Aging: 1-3 semester hours

Prerequisites: Consent of the instructor. Designed to give the student an opportunity to explore a question of interest from a qualitative and/or quantitative research perspective. This supervised experience may include one or more of the following activities (depending on enrolled hours): literature review, hypothesis generation, study design and proposal, IRB application, participant recruitment, data collection, data management, data analysis, and report/article generation.

Social Work

General Information

Degrees and Areas of Concentration

The Social Work program offers courses leading to a bachelor of social work (B.S.W.), a master of social work (M.S.W.), and a minor in social work. The B.S.W. and the M.S.W. programs are fully accredited by the Council on Social Work Education. The programs stress the critical, empirical, and applied aspects of social work, incorporating a liberal arts perspective throughout the curriculum. There is a strong accent on community and agency field work as an integral part of the program.

Professional social work education enables students to integrate the knowledge, values, and skills of the profession into competent practice.

Students must apply for admission into the B.S.W. and the M.S.W. programs. After admission, undergraduate social work majors and Master's students should obtain a copy of the Student Handbook (available on the School of Social Work's web page). Students in both programs must meet with a social work adviser for advisement each semester, and must set up an appointment with the practicum office and attend a series of pre-practicum orientation sessions one semester prior to enrolling in the practicum.

Career Outlook

The bachelor of social work program prepares persons for entry-level employment in social welfare agencies, schools, hospitals, correctional institutions, social action and community organizations, and day care, geriatric, or rehabilitation and residential centers. The master of social work program prepares professionals for advanced social work practice with individuals, families, groups, organizations, and communities. Individuals currently working in social welfare can develop skills and increase employment and job advancement opportunities with the B.S.W. and M.S.W. degrees.

Undergraduate Studies Objectives of the BSW Program

The BSW program has the following educational outcomes. Students who graduate with a BSW will be generalist practitioners who:

- Identify as professional social worker and conduct themselves accordingly.
- Understand the values and ethics of the social work profession and the relationship between personal beliefs and values, professional values and ethics, and professional social work practice.
- Utilize critical thinking, capacity building, analytical and communication skills to synthesize and analyze information to inform social work practice.
- Understand the importance of diversity, difference, power, and privilege in shaping life experiences for diversity competent practice.
- Possess the knowledge and skills to fight effectively against human oppression, discrimination, and social inequity and to formulate and foster social change initiatives to advance social and economic justice.
- Engage in research-informed practice and practice-informed research to evaluate professional practice and /or the professional practice of others.
- Apply knowledge of human behavior and the social environment to guide assessment and intervention.
- Understand major social and welfare policies and analyze and formulate policies to advocate for social and economic justice.
- Use leadership skills to respond to the changing context of social work practice.
- Utilize skills of engagement, assessment, intervention and evaluation, including theory and practice skills, across all levels of practice.

General Education Requirements

Majors must satisfy the university and college general education requirements (p. 28), although proficiency in a foreign language is recommended but not required.

Courses required for the B.S.W. degree may not be taken on a satisfactory/unsatisfactory basis except SOC WK 4800 (p. 509) and SOC WK 4850 (p. 509).

Admission Requirements

Students entering UMSL as freshman and as transfer students should indicate a pre-social work major. Students must apply to the program concurrently with SOC WK 3100 (p. 509). Admission to the program is conditional upon the successful completion of all necessary requirements.

Requirements for Admission to the Social Work program:

- · Junior standing
- Have a GPA of 2.75 or higher in social work related areas.
- · Submission of:
 - · Application for admission to the social work program.
 - Two letters of reference: one from a college or university professor and one other from a work or volunteer experience supervisor.
- Completion of SOC WK 2000 (p. 509), SOC WK 2001 (p. 509), and SOC WK 2200 (p. 509) or their equivalents or completion of an A.A. in Human Services.
- Satisfactory completion of all courses listed as prerequisites for, SOC WK 3210 (p. 509), and SOC WK 3510 (p. 509).

Applicants may be asked to meet with the social work Admissions Committee.

Bachelor of Social Work

Students must have a minimum GPA of 2.5 in social work and related-area requirement courses to enter field practicum. Candidates for this degree program must complete the core requirements including the following social work courses:

SOC WK 2000 (p. Social Work And Social Issues 509)	3
SOC WK 2001 (p. Social Work and Social Issues Lab 509)	1
SOC WK 2200 (p. Social Welfare As A Social Institution 509)	3
SOC WK 3100 (p. Introduction To Strategies for Social Work Practice 509)	3
SOC WK 3210 (p. Social Issues And Social Policy Development 509)	3
Select one of the following:	3
SOC WK 3410 Research Design In Social Work (p. 509)	
SOC 3230 (p. Research Methods 509)	
PSYCH 2219 Research Methods (p. 509)	
CRIMIN 2210 Research Methods In Criminology And Criminal (p. 509) Justice	
SOC WK 3510 (p. Human Behavior In The Social Environment 509)	3
SOC WK 3700 (p. Diversity And Social Justice 509)	3
SOC WK 4110 (p. Social Work Practice with Individuals, Families, and 509) Groups	3 t

Total Hours	43
SOC WK 4801 (p. Integrative Field Experience Seminar I 509) and Integrative Field Seminar II & SOC WK 4851 (p. 509)	4
SOC WK 4800 (p. Supervised Field Experience In Social Work I 509) and Supervised Field Experience In Social Work & SOC WK 4850 II (p. 509)	8
SOC WK 4350 (p. Human Service Organizations 509)	3
SOC WK 4300 (p. Social Work Practice with Communities 509)	3

A minimum of 43 hours or a maximum of 50 hours must be taken in social work. A minimum of 30 hours is required in related area departments.

Evaluation of social work transfer credits will be done by a social work adviser on an individual basis.

Related Area Requirements

The following courses, or their alternatives, are required:

ECON 1000 (p. 509)	Introduction To The American Economy	3
or ECON 1005 (p 509)	. Family Economics and Household Development	
POL SCI 1100 (p. 509)	Introduction To American Politics	3
PSYCH 1003 (p. 509)	General Psychology	3
Biology		
Select one of the	following:	3-4
BIOL 1102 (p. 509)	Human Biology	
BIOL 1131 (p. 509)	Human Physiology And Anatomy I	
BIOL 1141 (p. 509)	Human Physiology And Anatomy II	
BIOL 1202 (p. 509)	Environmental Biology	
Sociology		
SOC 1010 (p. 509)	Introduction To Sociology	3
SOC 2160 (p. 509)	Social Psychology	3
Select one of the	following:	3-4
SOC 3220 (p. 509)	Social Statistics	
PSYCH 2201 (p. 509)	Psychological Statistics	
CRIMIN 2220 (p. 509)		

At least 9 additional hours must be taken in social work, sociology, political science, psychology, gender studies, anthropology, criminology and criminal justice, or economics at the 2000 level or above.

Total Hours 30-32

Hours taken in social work will apply toward the maximum of 50 hours that may be taken in social work courses. The Social Work program may require students to pass a placement test to enroll in the next level course, provided this test or its equivalent is administered to all students seeking to enroll in that course.

Social work majors must have a grade of C- or better and maintain a cumulative grade point average of 2.5 or better in all course work specifically required for the major, with satisfactory grades in practicum.

Note: Anthropology, biological sciences, economics, and Spanish courses are strongly recommended by graduate schools of social work.

Requirements for the Minor in Social Work

Candidates must complete the following social work courses:

SOC WK 2000 (p. Social Work And Social Issues 509)	3
SOC WK 2200 (p. Social Welfare As A Social Institution 509)	3
SOC WK 3100 (p. Introduction To Strategies for Social Work Practice 509)	3
SOC WK 3210 (p. Social Issues And Social Policy Development 509)	3
Select one additional social work course at the 3000 level or above.	3
Total Hours	15

Graduate Studies

Goals of the Master of Social Work

The goals of the M.S.W. program of the University of Missouri- St. Louis are consistent with the land-grant public service mission of the University, the MSW feasibility study, and the educational policy statement of CSWE and are to:

- Prepare students with the professional knowledge, skills, values and ethics for effective social work practice.
- Prepare students to utilize critical thinking and capacity building skills at all levels of social work practice.
- Prepare students to analyze and address dynamic issues and challenges facing diverse populations and to promote social justice and positive social change.
- Prepare students to conduct and utilize research to respond effectively to dynamic social contexts, issues and problems found in social work practice.
- Assist and support faculty in the advancement of social work knowledge, teaching and service.
- Develop and participate in collaborative activities with social agencies, communities, organizations, and governments that will enhance student learning, enrich faculty research and teaching, and promote human and societal well-being.

Master of Social Work Admission Requirements

Admission to the M.S.W. Program requires admission to the University of Missouri-St. Louis Graduate School and acceptance by the School of Social Work. Applicants to the program must meet the following requirements to be considered for admission:

- Completion of a bachelor's degree from a college or university accredited by a recognized regional accrediting organization.
- Completion of a liberal arts education including courses in the humanities, the social and behavioral sciences, and the physical sciences. These courses must include one in human biology and one in statistics.
- Attainment of a cumulative grade point average of at least 3.0 on a 4.0 scale for all undergraduate course work and a grade point average of 3.0 on a 4.0 scale in the major field.
- Submission of the following documents by the admission deadline:
- A completed application to the UMSL Graduate School and a completed M.S.W. supplemental application
- · Three written essays.
- Three letters of reference. One from a professor in your major field of study, and one from a work or volunteer supervisor or other professional reference. Letters from employees/supervisees, friends, and family may not be used.
- Official transcripts from all colleges and university attended.
- · Applicable fees.

Application Deadline

The deadline for application to the MSW program is February 15 for admission in the following fall semester. See School of Social Work's website, for more details.

Admissions to the Advanced Standing Program

Applicants with a B.S.W., B.A.S.W., or B.S.S.W., from an accredited social work program may be given up to 24 credit hours of advanced standing for foundation social work courses. Admission to the advanced standing program is available to applicants who meet the general admission requirements and who:

- have earned a bachelor's degree in social work from a program accredited by the Council on Social Work Education within five years of applying to the M.S.W. Program, and
- have earned a grade point average of at least 3.0 on a 4.0 scale in the social work foundation curriculum, and no less than a B in all courses that are applicable.

Course Waivers

A student who does not have a bachelor's degree in social work but who can document successful completion (with at least a B) of foundation courses from an accredited B.S.W. program within the last five years will be given course waivers and be allowed to replace these courses with electives.

Students from non-accredited B.S.W. programs or students who have taken comparable course work in other undergraduate programs may take place-out examinations for select foundation courses; waivers will be given if students successfully pass place-out examinations. The waiver does not

provide graduate credit; it is a mechanism for allowing elective courses to be substituted for required foundation courses.

Academic credit cannot be given for life experience and/or previous work experience, in whole or in part, in lieu of field practicum or foundation year courses.

Degree Requirements

The M.S.W. is a two-year program comprising a foundation year and a concentration year. All students are required to take the foundation year courses. These provide a common base of knowledge across all practice settings and populations. Beyond the general requirements of the Graduate School, the department requires a minimum of 60 semester hours of course work, of which 48 must be at the 5000 or 6000 level and 48 must be in social work or cross-listed with social work, including the following foundation courses:

SOC WK 5100 (p. Generalist Social Work Practice 509)	3
SOC WK 5200 (p. Social Policy And Social Services 509)	3
SOC WK 5300 (p. Community Practice And Social Change 509)	3
SOC WK 5350 (p. Social Work And Human Service Organizations 509)	3
SOC WK 5410 (p. Social Work Research Methods And Analysis I 509)	3
SOC WK 5450 (p. Social Work Research Methods And Analysis II 509)	3
SOC WK 5500 (p. Foundations Of Human Behavior In The Social 509) Environment	3
SOC WK 5700 (p. Diversity and Social Justice for Social Work 509)	3
SOC WK 5800 (p. Graduate Field Practicum I 509)	4
SOC WK 5801 (p. Foundation Field Practicum Seminar 509)	2
Total Hours	30

Upon completion of the 30 credits of foundation year requirements, students move into a year of specialization, called the concentration. The concentration year requires 30 hours of course work that includes up to 12 hours of elective graduate-level courses approved by the adviser. Students plan their degree program to reflect their career interests in the following concentration areas:

- · Family Practice
- Social Work Leadership and Management
- Gerontology

To remain in good standing, students must maintain a cumulative GPA of 3.0 or better.

The field practicum is an integral part of the concentration year. Students will complete 300 hours (20 hours of full-time work each week) of M.S.W. supervised practice in an agency during the second semester of the foundation year, and 600 hours total (20 hours of full-time work per week) in the concentration year. A student must receive a grade of B or better in the first-year field practicum course in order to be eligible to enter the

second year field practicum. S/U grades are given for the concentration practicum.

Part Time Status

Students who enter the program as part-time students complete the foundation year in two years and the concentration course work in an additional two years.

All students must complete the M.S.W. in four years.

Courses

SOC WK 2000 Social Work And Social Issues: 3 semester hours

Prerequisites: SOC 1010 or PSYCH 1003 Examination of the network of social programs and services developed in response to social problems in modern urban communities and the various roles and functions performed by the helping professions. Students will be introduced to basic values, skills, and training involved in a helping relationship as well as the characteristics of clients seeking help and professionals engaged in the helping process.

SOC WK 2001 Social Work and Social Issues Lab: 1 semester hour Prerequisites: Simultaneous with SOC WK 2000. The lab session will be

used for field trips to social agencies which will allow students to better understand the many roles social workers are involved in This course is required for social work majors.

SOC WK 2102 Introduction To Gender Studies: 3 semester hours

Same as HIST 2102, SOC 2102, and GS 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

SOC WK 2200 Social Welfare As A Social Institution: 3 semester hours

Prerequisite: SOC WK 2000 or consent of instructor. A study of the: 1) development of social welfare service and the philosophy underlying the present practices and systems, 2) present social welfare programs with particular emphasis given to public income maintenance provisions, 3) special welfare needs of the black, elderly, women, indian and hispanic americans, and 4) Development of social work as a profession. This course may be taken by non-social work majors.

SOC WK 2201 Social Welfare As A Social Institution Laboratory: 1 semester hour

Prerequisites: Simultaneous with SOC WK 2200. The lab session will be used for field trips to social agencies. This course is required for all Social Work majors.

SOC WK 2330 Asians In Migration: 3 semester hours

This course is a comparative analysis of the social and cultural diversity of the peoples of East, South, and Southeast Asia. Study focuses on their reasons for migration and the extent and quality of the social and cultural connections they maintain to their homelands. Implications of these cultures for students in a variety of disciplines are explored. This course satisfies the cultural diversity requirement.

SOC WK 2670 Aging In America: Concepts And Controversies: 3 semester hours

This course examines the major theoretical and service issues connected to the study of older adults and their families, using multidisciplinary perspectives. Students are provided with an introduction to the field of aging through an examination of current social issues and controversies. This course emphasizes student involvement through class discussion, and is appropriate for students in the arts and sciences, business, communication, education, and nursing.

SOC WK 3100 Introduction To Strategies for Social Work Practice: 3 semester hours

Prerequisites: SOC WK 2200, SOC 1010 and PSYCH 1003 or permission of instructor. A presentation of basic knowlege, skills, and theory used for entry-level professional practice, such as problem assessment, interviewing skills, crisis intervention and referral procedures. The course objectives will also be to teach students how to help clients negotiate systems effectively, and to use resources, services, and opportunities.

SOC WK 3210 Social Issues And Social Policy Development: 3 semester hours

Prerequisites: SOC WK 2200, POL SCI 1100, and ECON 1000. The identification of issues concerning governmental provisions to meet contemporary social needs, with analysis of the principles and values underlying alternative solutions. A study of the processes by which citizen opinions and public policies evolve and are implemented in areas such as income maintenance, crime and delinquency, employment, family and child welfare, and public mental health.

SOC WK 3410 Research Design In Social Work: 3 semester hours Prerequisites: Satisfaction of Math Proficiency requirement and either SOC 3220, CRIMIN 2220, or PSYCH 2201. Students explore research concepts and procedures (hypothesis testing, sampling, measurement, and design) emphasizing issues in social work research. Students learn to collect, analyze and present data.

SOC WK 3510 Human Behavior In The Social Environment: 3 semester hours

Prerequisites: BIOL 1012 and SOC 2160 or PSYCH 2160 or permission of instructor. This course will focus on the normative stages in the life span, and specifically, how human development is affected by the physical environment and social status characteristics. Empirical information and theoretical views onhuman development will be included. Human development will be viewed as a complex interaction of individual developmental stages with family, social, and community systems.

SOC WK 3700 Diversity And Social Justice: 3 semester hours Same as GS 3700. Prerequisites: PSYCH 2160 or SOC 2160; and SOC WK 3100 taken prior or concurrently. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

SOC WK 4110 Social Work Practice with Individuals, Families, and Groups: 3 semester hours

Prerequisites: SOC WK 3100, SOC WK 3510, and SOC WK 3700 taken prior to or concurrently. This course continues the presentation of basic knowledge and practice skills for entry level professional practice begun in SOC WK 3100. It builds on the generalized helping model, incorporating specialized skills for working with specific groups of clients (e.g., children, aged, mentally ill, and physically handicapped), with families and small groups.

SOC WK 4300 Social Work Practice with Communities: 3 semester hours

Prerequisites: SOC WK 3210 taken prior to or concurrently, senior standing. Continuation of basic practice skills with emphasis given to analysis and intervention at the community level. Includes assessment of community assets and needs and the development of community-level interventions. Emphasis is also placed on helping the practitioner evaluate the impact of intervention.

SOC WK 4350 Human Service Organizations: 3 semester hours

Prerequisite: POL SCI 1100; PSYCH 2160 or SOC 2160 and admission to the BSW program or consent from instructor. This course seeks to help develop knowledge of organizational functioning and an understanding of organizational history, principles and philosophy of effective administration. Students develop theoretical and empirical understanding of groups and organizations, including concepts such as power and authority, organizational structure, goals, membership, leadership, motivation, technology and organizational culture. They will learn to develop a budget and to submit proposals for grant funding. Using a systemic perspective with organizations as settings for practice students learn to function in and through organizations.

SOC WK 4376 Mental Health And Aging: 3 semester hours

Same as GERON 4376 and PSYCH 4376. Prerequisites: 9 hours of psychology, graduate standing, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) This course provides a survey of theory and research in mental health issues for older populations, focusing on psychological and social aspects of mental health and impairment. The course details approaches to understanding prevalence, etiology, assessment, and treatment of the psychological disorders most commonly experienced by older adults, including anxiety, depression, delirium, and dementia, among others.

SOC WK 4398 Child Maltreatment: A Multidisciplinary Approach: 3 semester hours

(Same as psychology 4398) Focuses on clinical aspects of child abuse with attention to identification, reporting, intervention and prevention. Perspectives from the disciplines of psychology and social work are provided.

SOC WK 4601 Abused And Neglected Children: 3 semester hours

Prerequisites: SOC WK 3510 or equivalent. This course explores the major concepts necessary for understanding abused and neglected children and their families. Emphasis is placed on (1) defining the problem, including societal stresses which contribute to the abuse and neglect; (2) examining existing practice methods; and (3) understandin the role of the social worker on interdisciplinary teams.

SOC WK 4602 Child Welfare Practicum Seminar: 3 semester hours

Prerequisites: SOC WK 4800 and consent of instructor. This seminar allows students to integrate previous course wor with their experience in child welfare agencies. Classroom discussion will emphasize core competencies needed for child welfare practice.

SOC WK 4610 Domestic Violence: Theory, Problems And Practice: 3 semester hours

Same as GS 4610. Prerequisites: SOC WK 3510. Focuses on theoretical and empirical understanding of domestic violence in US society and social work practice with battered women and their families. Addresses direct services, community organizing, and public policy changes to help end violence against women. Relationships between violence against women and other forms of oppression (e.g., racism, economic exploitation, heterosexism and social class) are explored.

SOC WK 4620 Addictions: Assessment And Intervention In Social Work Practice: 3 semester hours

Prerequisites: SOC WK 4110 or SOC WK 5100 or equivalent, (or are taking concurrently), or consent of instructor. This class examines the interface of psychological, physical, social, and spiritual aspects of addiction. This practice class is designed to deepen students' abilities to address clients' issues related to addictions and addictive behaviors, including: prevention, assessment, and intervention. It builds on the generalized helping model within a systems perspective, and it introduces specialized skills for working with individuals, with specific groups of clients, with families, and with small groups.

SOC WK 4630 Gender Issues in Social Work: 3 semester hours

Same as GS 4630. Prerequisites: SOC WK 3700, GS 2102, or graduate standing. This course will help students become more sensitive to the social and welfare concerns based on gender. Topics may include work, education, family responsibilities, violence against women, and special health and mental health service needs. Emphasis will be placed on understanding how social action can be used to bring about positive change.

SOC WK 4641 Crisis Intervention: 1 semester hour

Prerequisites: SOC WK 4110 or SOC WK 5100 or equivalent (or are taking concurrently), or consent of instructor. This course introduces students to the theoretical framework as well as the skills needed to understand and engage in effective crisis intervention. Students will learn a specialized model for assessment and intervention with people in crisis and will have an opportunity to apply this model to a variety of case situations.

SOC WK 4642 Non-Violent Crisis Intervention: 1 semester hour

Prerequisites: Senior or Graduate Standing. Nonviolent Crisis Intervention is a nonharmful behavior management system designed to aid human service professionals in the management of disruptive and assaultive people. These techniques are used to reduce tension in agitated people, control anxiety during interventions, determine alternative approaches if a person becomes violent. Students will learn how to use nonverbal, paraverbal, verbal and physical intervention skills to maintain the best care and safety for clients.

SOC WK 4643 Social Work Practice with Individuals with Development Disabilities: 1 semester hour

Prerequisites: Senior Standing This evidence based course exposes students to the diverse issues related to the services and support needed by individuals with development issues. Students will explore the complex social contexts in which this population lives and the appropriate interventions to meet the unique challenges facing these individuals.

SOC WK 4645 Social Work in Mental Health: 3 semester hours

Prerequisites: SOC WK 3510 and SOC WK 4110 or the equivalent. The role of social work in the field of behavioral health has evolved over the last thirty years as the setting for service activity has shifted from inpatient facilities to community-based care and treatment. This course will integrate the basic components of good social work practice with the contemporary role of the social worker in the field of behavioral healthcare. This course will focus on practical applications of social work in the context of working with individuals and families dealing with mental health and/or addiction disorders with an emphasis on consumer empowerment and recovery.

SOC WK 4655 Health And Mental Health Of Racial And Ethnic Minorities: 3 semester hours

Prerequisites: SOC WK 3700 or equivalent and graduate standing or approval of the instructor. This course explores the major health and mental health conditions that adversely affect the well-being and social functioning of racial and ethnic minorities. The course will explore the assessment of health and mental health conditions among varying minority groups, the availability of services to treat these conditions, the accessibility of services, and the quality of care provided to these groups. Traditional barriers to care will be explored including cost of care, societal stigma, client fears, and language differences. The course will also help students develop culturally competent approaches to working with racial and ethnic minorities that is individualized to a targeted population.

SOC WK 4670 Cross Cultural Perspectives On Social Policy: 3 semester hours

Prerequisites: SOC WK 3210 or equivalent. This course examines social policies in different countries, which may include social insurance, social assistance, health care, and social services. Using a comparative framework, the course examines the nature of government involvement, and public and private sector relations. It examines adequacy, equity, inclusiveness, comprehensiveness, effectiveness, and efficiency of social policies in the countries being studied.

SOC WK 4680 Introduction to Gerontological Practice: 3 semester hours

Same as GERON 4680. Prerequisites: Advanced undergraduate or graduate standing. This course introduces key concepts and practices in the evaluation and care of older adults. It is intended for students considering aging-focused careers in the social service or healthcare fields. Topics include developmental and health-related theories of aging, functional and psychosocial aspects of aging, working with older adults in various service settings, multi and interdisciplinary team approaches, and basic standards of professional conduct that apply across professions.

SOC WK 4800 Supervised Field Experience In Social Work I: 4 semester hours

Prequisite: SOC WK 3100, SOC WK 4110. SOC WK 4110 must be taken prior to or concurrently with SOC WK 4801; consent of instructor. This course provides students practice experience in social service agencies. Students work at the agencies approximately 20 hours per week. The purpose of this experience is to familiarize students with agency operations. Selection of the agency is based on student education needs.

SOC WK 4801 Integratve Field Experience Seminar I: 2 semester hours

Prerequisite: Consent of instructor and concurrent registration in SOC WK 4800. This seminar provides an opportunity for students to integrate previous course work with their experience in social work agencies. Classroom discussion will emphasize direct practice issues.

SOC WK 4850 Supervised Field Experience In Social Work II: 4 semester hours

Prerequisite: SOC WK 4800, SOC WK 4801 and consent of instructor this is a continuation of agency practice experience. Students work at the agency approximately 20 hours per week and continue at the same agency as SOC WK 4800 or change agencies with the consent of the instructor.

SOC WK 4851 Integrative Field Seminar II: 2 semester hours

Prerequisites: Consent of instructor and concurrent registration in SOC WK 4850. This seminar is a continuation of SOC WK 4801. Classroom discussion will emphasize adminstration and community organization issues.

SOC WK 4900 Special Study: 1-10 semester hours

different topics are offered.

Prerequisite: Consent of instructor. Independent study through advanced readings in method and philosophy on a topic of particular interest, or field research in an agency.

SOC WK 4950 Seminar In Social Work Issues: 1-3 semester hours Prerequisite: Consent of instructor. A variable credit course examining current and future considerations in designing and implementing social work service delivery arrangements. Issues will be selected according to interests of the class. Course may be taken more than once for credit as

SOC WK 5100 Generalist Social Work Practice: 3 semester hours
Prerequisites: SOC WK 4110 or equiv or admission to MSW program
Using a problem-solving approach, students develop theoretical and
empirical understanding and practical application of generalist social work
methods. Students gain knowledge and skills that include interviewing,
assessment, crisis and shortterm intervention, contracting, resource
development, and case documentation needed for competent direct
practice with diverse populations.

SOC WK 5200 Social Policy And Social Services: 3 semester hours
Prerequisites: SOC WK 3210 or POL SCI 2420 or POL SCI 3460 or
equivalent or admission to the MSW program Covers the history and
development of social welfare policies, legislative processes, and existing
social welfare programs. Examines frameworks for social policy analysis,
analyzes how social and economic conditions impact the process of social
policy development and implementation, and introduces policy practice in
social work.

SOC WK 5300 Community Practice And Social Change: 3 semester hours

Prerequisites: SOC WK 3300, or SOC 3344, or equivalent or admission to the MSW program Focuses on economic, social, and political theory and research on communities and social change. Examines conceptual models of community practice within the generalist model and develops skills in organizing, advocacy, and planning.

SOC WK 5350 Social Work And Human Service Organizations: 3 semester hours

Prerequisites: SOC WK 3510 and SOC WK 4300 or PSYCH 3318 or BUS AD 3611 or equivalent or admission to the MSW program. Students develop theoretical and empirical understanding of groups and organizations, including concepts such as power and authority, structure, goals, membership, leadership, motivation, technology and organizational culture. Using organizations as settings for social work practice and as targets for change, students learn strategies and skills for assessment and intervention.

SOC WK 5410 Social Work Research Methods And Analysis I: 3 semester hours

Prerequisites: SOC WK 3410 or SOC 3230 and SOC 3231 or equivalent and SOC 3220 or equivalent or admission to MSW program. The first of a two-course sequence designed to provide students with the knowledge base and skills for using scientific method to advance social practice, knowledge, and theory. Focuses on research methods at different levels (e.g., individual, group, organization, and community) and critical analysis and synthesis of academic literature necessary for effective, evidence-based social work practice. Covers quantitative and qualitative methods, research design, sampling, measurement, use of results, impact of research, and ethical considerations.

SOC WK 5450 Social Work Research Methods And Analysis II: 3 semester hours

Prerequisites: SOC WK 5410 or equivalent. Advanced course, focusing on analysis of qualitative and quantitative data to advanced social work practice, knowledge, and theory. Students learn to use and interpret various statistical procedures for analyzing quantitative data, including bivariate and multivariate analysis, and content and statistical analysis for qualitative data. Students apply these analytic techniques to social work case material using computer software applications.

SOC WK 5500 Foundations Of Human Behavior In The Social Environment: 3 semester hours

Same as GS 5500. Prerequisites: SOC WK 3510 or equivalent or admission to the MSW program. Focuses on theoretical and empirical understanding of human be havior in the social environment using a life-span perspective Introduces biological, behavioral, cognitive, and sociocultural theories of individuals, families, and small groups, and their implications for the professional social worker's understanding of socioeconomic status, gender, disability, ethnicity, race, and sexual orientation.

SOC WK 5610 Mechanisms Of Aging I: The Aging Body: 1 semester hour

Same as GERON 5610 and PSYCH 5610. Prerequisites: Graduate Standing and BIOL 1102 or equivalent (MSW students normally take all foundation courses prior to enrolling in this course.) Introduces students with a social science/humanities background to the normal changes in the biology and chemistry of the aging human body and how these changes affect behavior.

SOC WK 5611 Mechanisms Of Aging II: The Aging Brain: 1 semester hour

Same as GERON 5611 and PSYCH 5611. Prerequisites: SOC WK 5610, GERON 5610, PSYCH 5610 or equivalent, or consent of instructor. (MSW students normally take all foundation coruses prior to enrolling in this course.) Provides students with a social sciences/humanities background a basic introduction to the biology and chemistry of the aging human brain and nervous system and how these systems impact behavior.

SOC WK 5612 Mechanisms Of Aging III: Diseases Of Aging: 1 semester hour

Same as GERON 5612 and PSYCH 5612. Prerequisites: SOC WK 5610 and SOC WK 5611, or GERON 5610 and GERON 5611, or PSYCH 5610 and PSYCH 5611 or equivalent, or consent of instructor. (MSW students normally take all foundation courses prior to enrolling in this course.) Provides students with a social sciences/humanities background with information on how diseases associated with aging exacerbate the effects of aging on the human body, mind, and behavior.

SOC WK 5620 Dying, Grief & Death in Older Adulthood: 3 semester hours

Same as GERON 5620. Prerequisite: Six hours of graduate level gerontology, psychology, counseling and/or social work coursework, or special approval from the instructor. Undergraduates in their senior year may also request approval for entry from the Director of Gerontology. For those planning to work with older adults in counseling, healthcare, hospice and/or community support settings. Will examine trajectories to death in older age, the dying process, influences of medical and aging-related conditions, euthanasia and suicide, life extension and longevity, personal beliefs and existential responses, how individuals and families cope, ethical concerns, and strategies for supportive intervention. Topics are addressed from clinical, supportive care, and interdisciplinary perspectives.

SOC WK 5635 Social Work Practice with Gay, Lesbian, Bisexual and Transgender Populations: 3 semester hours

Same as GS 5635. Prerequisites: SOC WK 5100 and SOC WK 5500. This advanced practice course focuses on developing the theoretical and empirical knowledge and practice skills necessary for effective social work practice with lesbian, gay male, bisexual, and transgender (LGBT) persons and their families. This course aims to explore deeper understanding of LGBT identities, families, health and mental health challenges, and issues of political advocacy.

SOC WK 5700 Diversity and Social Justice for Social Work: 3 semester hours

Same as GS 5700. Prerequisite: Graduate Standing. Analyzes the structure, dynamics, and consequences of social and economic injustice, and the impact on diverse groups in American society. Examines theoretical models and practice principles for work with diverse groups.

SOC WK 5800 Graduate Field Practicum I: 2-4 semester hours

Prerequisites: Graduate standing and consent of instructor. Provides integrative field experience in generalist social work practice. May be taken for 2-4 hours' credit depending on time in agency during semester, 75 contact hours = 1 credit hour. May be repeated once. A maximum of 4 credit hours will apply to the M.S.W. degree.

SOC WK 5801 Foundation Field Practicum Seminar: 2 semester hours

Prerequisite: Graduate standing and consent of instructor. Integrates academic content from foundation course work and experiential learning in field placements. Goals are to conceptualize the problem solving process in field practice, synthesize theory into a social work approach that encourages creative use of self, and underscore ethics and service to diverse groups in practices.

SOC WK 6100 Theory And Practice With Children And Youth: 3 semester hours

Prerequisites: SOC WK 5100 or equivalent or consent of instructor and graduate standing. Course will examine theory and intervention models for work with children and adolescents. The effects of family, peers, and societal context (e.g. poverty, racism) will be stressed in understanding youth problems such as drug abuse, academic failure, delinquency, adolescent pregnancy, and gang partidipation. The course will emphasize a multi-disciplinary approach using inter-agency collaboration and negotiation skills.

SOC WK 6120 Theory And Practice With Older Adults: 3 semester hours

Same as GERON 6120. Prerequisites: Graduate Standing. Examines theory and empirically-based assessment and intervention models for work with the elderly. It includes the life circumstances of older adults and how that differs from younger adult populations; how ethnicity, gender, social class, and sexual orientation interact with age and create special intervention issues; discussion of ethical and value issues (e.g. client autonomy, rationing of health care); examination of family and community resources in providing care; and interventions with physically or mentally disabled elders and elders in residential settings.

SOC WK 6130 Interviewing Older Adults and Life Review: 3 semester hours

Same as GERON 6130. Prerequisites: Graduate Standing. This course combines training in interviewing techniques with video production. Students will learn how to conduct life review interviews with older adults, and then take these skills into the community by interviewing older adults living in various settings. Students will learn how to use a digital vide camera and edit video clips on the computer. Student-conducted interviews will be viewed by the instructor and classmates, issues associated with aging will be discussed, and constructive feedback provided. Some of the video clips developed in the course will become part of an educational video clip library.

SOC WK 6150 Theory And Practice With Families: 3 semester hours Prerequisites: SOC WK 5100 or equivalent, graduate standing and departmental approval. This course will examine theoretical approaches to scocial work with families, including the impact of the social environment. Skills will include assessment and multi-disciplinary intervention with multiproblem families. Special emphasis will be given to poverty, chemical dependency, intra-familial violence, physical and mental illnesses, and working with family members of diverse cultures, socioeconomic backgrounds, races, sexual orientation, and ability. Values and ethics will

SOC WK 6160 Advanced Social Work Practice Across the Life Span: 3 semester hours

Prerequisites: SOC WK 5100 or equivalent or consent of instructor Examines theory and empirically-based assessment and intervention strategies for diverse populations across the life span. Students will gain basic mastery of behavioral, cognitivebehavioral, brief therapeutic and supportive psychotherapeutic techniques and their appropriate use with children, adolescents, and young, middle and older adults. The course will also consider the effects of family, peers, and societal context (e.g. poverty, racism, and ageism) in understanding psycho-social stressors particular to each life era, including academic failure and delinquency, substance abuse, physical and mental illness, family disruption and instability, and grief and loss issues.

SOC WK 6200 Family Policy: 3 semester hours

be emphasized.

Prerequisites: SOC WK 5200 or equivalent or consent of instructor and graduate standing. Examines policy development, implementation and impact of social policies on children, youth, and families. International national, and state policies that affect basic family needs will be the focus, including topics such as economic support, health care, child care and protection, and child and youth development. Intended and unintended consequences of existing policies on the family will be examined as well as future policy directions.

SOC WK 6250 Social And Economic Development Policy: 3 semester hours

Same as POL SCI 6418. Prerequisites: SOC WK 5200 or eqivalent or consent of instructor and graduate standing. Examines major trends and alternatives in social and economic development policy and practice in state, national, and international perspectives. Students will develop skills in policy analysis and development.

SOC WK 6300 Leadership and Management in Nonprofit Organizations: 3 semester hours

Same as P P ADM 6300 and POL SCI 6300. Prerequisites: Graduate standing required. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include the dynamics, functions, and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

SOC WK 6310 American Philanthropy and Nonprofit Resource Development: 3 semester hours

Same as P P ADM 6310. Prerequisites: Graduate standing required. This course addresses the history, philosophy, roles and scope of philanthropy in the United States, including its role in the nonprofit, voluntary sector. It further examines the contemporary forces which impact philanthropy and charitable giving, both by institutions and individuals. The course examines the effective planning and management of development programs (e.g., annual giving), fund raising vehicles (e.g., mail solicitations) and the fund raising process, form planning through donor relations.

SOC WK 6311 Staff Management Issues in Nonprofit Organizations: 1 semester hour

Same as P P ADM 6311. Prerequisites: Graduate standing required. This course addresses issues involved in managing staff in nonprofit organizations. The course will cover the following topics: fundamentals of staff supervision; balancing supervisory processes with counseling and coaching; selecting, hiring, evaluating, and terminating staff' legal issues that affect these processes.

SOC WK 6312 Legal Issues in Managing Nonprofit Organizations: 1 semester hour

Same as P P ADM 6312. Preequisites: Graduate Standing required. This course addresses legal issues involved in managing and governing nonprofit organizations. The course will cover the following topics: The Board as steward of the organizaton; Director and officer liability; tax laws concerning charitable giving; legal issues in managing staff and volunteers (e.g., hiring, evaluating, and terminating employees); Missouri nonprofit law.

SOC WK 6313 Financial Issues in Managing Nonprofit Organizations: 1 semester hour

Same as P P ADM 6313. This course addresses financial issues involved in governing and managing nonprofit organizations. The course will cover the following topics: Cash flow analysis; budgeting; fund accounting; cost accounting (determining costs for programs and services); understanding and using standard financial statements, including balance sheets, cash flow statements, statements of activity, and operating and capital budgets.

SOC WK 6400 Practice And Program Evaluation: 3 semester hours

Prerequisites: SOC WK 5410 and SOC WK 5450 or equivalent or consent of instructor. Provides specialized knowledge in the use of qualitative and quantitative research skills to evaluate the effectiveness of social work practice. Topics will include single system design, group designs, and program evaluation. Students will design and conduct a research project associated with their advanced social work practicum. Results will be presented to the class and the agency. Value and ethical issues, particularly those relevant to client race and gender will be emphasized as students develop and conduct their research.

SOC WK 6443 Health Care Policy: 3 semester hours

Same as POL SCI 6443, P P ADM 6430, GERON 6443. Prerequisites: Graduate Standing and consent of instructor. (MSW students will normally take the social policy foundation course prior to enrolling in this course.) Survey course examining current issues in health care policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

SOC WK 6449 Human Resources In The Public Sector: 3 semester hours

Same as POL SCI 6449 and P P ADM 6490 Prerequisites: P P ADM 6600 or consent of instructor. Presents an overview of personnel & labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector, such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation, and labor relations including grievance arbitration and collective bargaining.

SOC WK 6450 Gerontological Assessment: 3 semester hours

SOC WK 6491 Strategic And Program Planning For Nonprofit Organizations: 3 semester hours

Same as POL SCI 6490 and P P ADM 6550. Prerequisites: Graduate Standing or consent of Instructor. Strategic and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

SOC WK 6601 Evid Bsd Approaches in Direct SW Practice: Cog & Rational Emotive Behavioral Therapy Models: 1 semester hour

Prerequisites: SOC WK 5100 and SOC WK 6160 or consent of instructor and graduate standing. This course examines theory and evidence based practices through use of the Cognitive Behavioral and Rational Emotive Behavioral therapy models. Students will utilize these theories to conduct hands on intervention practices of assessment, treatment planning, interventive strategies, and termination when working within a family or direct practice setting. Student-conducted interventions through the use of role-plays will be videotaped and viewed by the instructor and classmates at each stage of the therapeutic process. This course will include integration and application of the Diagnostic and Statistical Manual of Mental Disorders through the psychotherapeutic process.

SOC WK 6602 Evid Bsd Approaches in Dir SWork Practice: Sol Focused Therapy Model: 1 semester hour

Prerequisites: SOC WK 5100 and SOC WK 6160 or consent of instructor and graduate standing. This course examines theory and evidence based practices through use of the Solution Focus therapy model. Students will utilize this theory to conduct hands on intervention practices of assessment, treatment planning, interventive strategies, and termination when working within a family or direct practice setting. Student-conducted interventions through the use of role-plays will be videotaped and viewed by the instructor and classmates at each stage of the therapeutic process. This course will include integration and application of the Diagnostic and Statistical Manual of Mental Disorders through the psychotherapeutic process.

SOC WK 6603 Evid Bsd Approaches in Dir SWork Practice: Play and Interactive Models: 1 semester hour

Prerequisites: SOC WK 5100 and SOC WK 6160 or consent of instructor and graduate standing. This course examines theory and evidence based practices through use of the Play and Interactive therapy models. Students will utilize these theories to conduct hands on intervention practices of assessment, treatment planning, interventive strategies, and termination when working within a family or direct practice setting. Student-conducted interventions through the use of role-plays will be videotaped and viewed by the instructor and classmates at each stage of the therapeutic process. This course will include integration and application of the Diagnostic and Statistical Manual of MentalDisorders through the psychotherapeutic process.

SOC WK 6604 Introduction to Motivational Interviewing: 1 semester hour

Prerequisites: SOC WK 5100 and SOC WK 6160, or consent of instructor, and graduate standing. This course focuses on skill development in Motivational Interviewing (MI), a specific style of interaction used to help clients/patients increase internal motivation to change behavior. The course will include theoretical underpinnings of MI, including a review of research establishing MI as an evidence-based intervention for a number of behavior areas. The course will also review a model of learning MI and provide specific opportunities for students to practice the skill. The broad objective of this course is to provide social work students an overview of Motivational Interviewing and its application to various domains of social work.

SOC WK 6630 Diagnosis And Related Pharmacology For Social Work Practice: 3 semester hours

Prerequisites: SOC WK 5100 or equivalent or consent of instructor. Course is designed for social work students, and will provide an overview of the development and treatment of selected mental health disorders classified by Diagnostic and Statistical Manual of Mental Disorders. In particular, the course will examine, from a systems perspective, the psychological and neuropsychological etiologies of mood, psychotic, personality and other disorders and their preferred pharmacological treatment.

SOC WK 6640 School Social Work Practice in Public Schools: 3 semester hours

Prerequisites: SOC WK 5100 or equivalent or graduate standing and consent of instructor. Examines the role of the social worker in school settings and includes work with youth, families, and communities in relation to the child or adolescent's functioning in school.

SOC WK 6800 Graduate Field Practicum II: 2-6 semester hours

Prerequisites: SOC WK 5800 and SOC WK 5801. Provides integrative field experience in student's graduate social work practice concentration. May be taken for 2 to 6 hours credit depending on time in agency during semester, 55 contact hours = 1 credit hour. May be repeated once and/or taken concurrently with SOC WK 6850.

SOC WK 6850 Graduate Field Practicum III: 2-6 semester hours

Prerequisites: SOC WK 6800 Provides advanced integrative field experience in students' graduate social work practice concentration. May be taken for 2 to 6 hours of credit depending on time in agency during semester, 55 contact hours = 1 credit hour. May be repeated once and/or taken concurrently with SOC WK 6800.

SOC WK 6900 Directed Study In Professional Social Work: 1-10 semester hours

Prerequisite: Graduate standing and consent of instructor. Independent graduate-level study on a topic of particular interest through readings, reports, and field work under faculty supervision.

University of Missouri St. Louis/Washington University Joint Undergraduate Engineering Program

General Information

The Joint Undergraduate Engineering Program of UMSL and Washington University was approved in 1993 by the University of Missouri and the Coordinating Board for Higher Education. The program is designed to offer course work beyond the pre-engineering courses at UMSL and the area community colleges. Pre-engineering and general education courses are offered at UMSL, and upper-level engineering courses are offered in the late afternoons, evenings and on Saturdays on the Washington University campus: this schedule permits students to co-op during the day at local engineering firms. Students will be admitted to the upper-division program only after they have completed an acceptable pre-engineering program. They can earn a bachelor of science in civil engineering (B.S.C.E.), a bachelor of science in electrical engineering (B.S.E.E.), or a bachelor of science in mechanical engineering (B.S.M.E.).

Mission Statement

The mission of the University of Missouri-St. Louis/Washington University Joint Undergraduate Engineering Program is to provide a high quality civil, mechanical, and electrical engineering education leading to a well-trained, sophisticated work force primarily for the St. Louis region. The program strives to excite and nurture the intellectual, technical, professional and personal development of the students through a partnership which provides a mechanism for Washington University to share its campus, resources and personnel with the UMSL students, many of whom are place-bound individuals. The Joint Program reflects the commitment of both institutions to work together to provide for the civil, mechanical and electrical engineering needs of the St. Louis community.

Program Educational Objectives

The University of Missouri-St. Louis/Washington University Joint Undergraduate Engineering Program aspires to make positive, substantive and lasting contributions to the lives of our students. The nontraditional and traditional students in the civil, mechanical and electrical engineering programs often have work experience in or related to engineering practice. The program seeks to impart an education that inspires the graduates to constantly share their knowledge with others, to continually improve their knowledge and understanding, and to persistently adapt to change in technology and world needs. Graduates of the program are expected to develop and use professional skills that facilitate their continued career growth well beyond their graduation and should be able to apply their comprehensive education within the civil, mechanical and electrical engineering profession or a related field. The objectives are to:

- Meet the needs of employers of civil, mechanical, and electrical engineers, with an emphasis on the St. Louis region.
- Meet the expectations of graduate schools that our alumni attend.

Student Outcomes

The student outcomes are the skills and knowledge expected of all students at the time of their graduation. Faculty members will assess these student outcomes in their classes every semester. The student outcomes for the Engineering Program are:

- · An ability to apply knowledge of mathematics, science and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- · An ability to function on multidisciplinary teams
- · An ability to identify, formulate, and solve engineering problems
- · An understanding of professional and ethical responsibility
- · An ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- A recognition of the need for, and an ability to engage in, life-long learning
- · A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

The B.S.C.E., the B.S.E.E., and the B.S.M.E. are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

Admission

Admission to candidacy for these degrees is granted jointly by the University of Missouri-St. Louis and Washington University.

Normally admission is granted to persons who have completed the pre-engineering program with a minimum grade point average of 2.75 over all mathematics, chemistry, physics, and introductory engineering courses (statics and dynamics). Students with less than a 2.75 grade point average, but at least a C in all their science and math courses, may be admitted on a probationary basis. These students must pass an Engineering Math Workshop with a grade of B or better, and then pass J E MATH 3170 Engineering Mathematics in the first year with a C- or better, in order to continue in the program.

Fees

Students register on the UMSL campus and pay UMSL fees plus an engineering fee for both pre-engineering and engineering courses. Limits on enrollments are determined by the availability of resources.

Career Outlook

Engineering is one of the few careers in which the bachelor's degree is a professional degree. Students earning a bachelor of science degree in one of the engineering disciplines are well qualified for entry-level engineering positions in a variety of businesses, industries, consulting firms, and government agencies. As society becomes increasingly dependent on technology, the outlook for all engineering disciplines becomes increasingly bright. Engineering careers typically rank at, or very near, the top of virtually any published rating of promising jobs for the 21st

Century. Besides tackling challenging technical problems, roughly twothirds of all engineers will have some level of management responsibility within ten years of receiving their bachelor's degrees. Many practicing engineers will eventually continue their education by pursuing graduate degrees on a part-time basis. Typical areas of graduate study include all advanced technical and scientific fields and management.

For Further Information

For information about enrolling in this program, please contact the UMSL/Washington University Joint Undergraduate Engineering Program at 314-516-6800.

Degree Requirements

- · Bachelor of Science in Civil Engineering
- · Bachelor of Science in Electrical Engineering
- · Bachelor of Science in Mechanical Engineering

A program of 135 semester hours is required for the Bachelor of Science in Civil Engineering, a program of 127 semester hours is required for the Bachelor of Science in Electrical Engineering, and a program of 139 semester hours is required for the Bachelor of Science in Mechanical Engineering, as shown below:

- All majors must complete the University General Education requirements (p. 28), the Pre-Engineering Requirements and the Core Engineering Requirements.
- All students must first complete J E MATH 3170 (p. 519), Engineering Mathematics, with a minimum grade of C-.
- Mechanical and Electrical Engineering majors must also complete J E ENGR 2300 (p. 519), Introduction to Electrical Networks with a minimum grade of C-.
- Civil engineering majors must complete either J E ENGR 2300 (p. 519), Introduction to Electrical Networks, or J M ENGR 3200 (p. 519) Thermodynamics, with a minimum grade of C-.
- A minimum grade of C- is necessary to meet the prerequisite requirement for any course.

Pre-Engineering Requirements

MATH 1800 (p. 519)	Analytic Geometry And Calculus I	5
MATH 1900 (p. 519)	Analytic Geometry And Calculus II	5
MATH 2000 (p. 519)	Analytic Geometry And Calculus III	5
MATH 2020 (p. 519)	Introduction To Differential Equations	3
CHEM 1111 (p. 519)	Introductory Chemistry I	5
PHYSICS 2111 (p. 519)	Physics: Mechanics And Heat	5
PHYSICS 2112 (p. 519)	Physics: Electricity, Magnetism, And Optics	5
ENGR 2310 (p. 519)	Statics	3
ENGR 2320 (p. 519)	Dynamics	3

ENGL 1100 (p.	First-Year Writing	3
519)		
Total Hours		42

Mechanical and Electrical Engineering majors must also complete CHEM 1121 (p. 519), Introductory Chemistry II as part of the preengineering requirements. Civil engineering majors must complete GEOL 1001A (p. 519), General Geology as part of the pre-engineering requirements.

General Education Requirements

	DI III 0050 /-	Facility of a Filtra		_
	PHIL 2259 (p. 519)	Engineering Ethics	•	3
	PHIL 3380 (p. 519)	Philosophy Of Science	;	3
	One additional Hu	manities course ¹		
	HIST 1001 (p. 519)	American Civilization To 1865	;	3
	HIST 1002 (p. 519)	American Civilization 1865 To Present	;	3
	or HIST 1004 (p. 519)	The History Of Women In The United States		
	Two additional So	rial Science courses 1		

Two additional Social Science courses

Once course must meet the Cultural Diversity requirement, and one course must mee the engineering Valuing Skill requirement. Humanities and social sciences electives must meet both the University of Missouri-St. Louis General Education Requirements and the Humanities and Social Sciences Requirements of the Joint Undergraduate Engineering Program. Check with your advisor for details.

Engineering Core Requirements

J CMP SC 1002 (p. 519)	Introduction To Computing Tools: Matlab Skills	1
CMP SCI 1250 (p. 519)	Introduction To Computing	3
J E MATH 3170 (p. 519)	Engineering Mathematics	4
ENGL 3130 (p. 519)	Technical Writing	3
J M ENGR 3200 (p. 519)	Thermodynamics ¹	3
J M ENGR 4310/ J E ENGR 4410 (p. 519)	Control Systems I ¹	3
J E ENGR 2300 (p. 519)	Introduction To Electrical Networks ¹	3
J E ENGR 2330 (p. 519)	Electrical And Electronic Circuits Laboratory ¹	3
Total Hours		23

Required for electrical and mechanical engineering majors only.

Civil Engineering Major Requirements

(p. 519)

J C ENGR 2160 Surveying

3

J C ENGR 3410 (p. 519)	Structural Analysis	3
J C ENGR 3420 (p. 519)	Structural Design	3
J C ENGR 3520 (p. 519)	Water and Wastewater Treatment	3
J C ENGR 3360 (p. 519)	Civil Engineering Materials Lab	1
J C ENGR 3760 (p. 519)	Hydraulic Engineering	3
J C ENGR 4190 (p. 519)	Soil Mechanics	3
J C ENGR 4200 (p. 519)	Soil Exploration And Testing	1
J C ENGR 4720 (p. 519)	Legal Aspects Of Construction	3
J C ENGR 4670 (p. 519)	Structure Design Projects	3
J C ENGR 4820	Design of Water Quality Control Facilities ¹	
J C ENGR 4840	Probabilistic Methods in Civil Engineering Design ¹	
J C ENGR 4950 (p. 519)	Fundamentals Of Engineering Review	1
J C ENGR 4990 (p. 519)	Senior Civil Engineering Seminar	1
J M ENGR 1413 (p. 519)	Introduction To Engineering Design: CAD	2
J M ENGR 2410 (p. 519)	Mechanics Of Deformable Bodies	3
J M ENGR 3360 (p. 519)	Material Science For J C ENGR	3
J M ENGR 3700 (p. 519)	Fluid Mechanics	3
J M ENGR 3721 (p. 519)	Fluid Mechanics Laboratory	1
Civil Engineering		
J M ENGR 3200 (p. 519)	Thermodynamics	3
J E ENGR 2300 (p. 519)	Introduction To Electrical Networks	3
J C ENGR 3460 (p. 519)	Transportation Engineering	3
J C ENGR 4600 (p. 519)	Highway and Traffic Engineering	3
J C ENGR 4640 (p. 519)	Foundation Engineering	3

This course will not be offered in 2013-2104. Contact department for more information.

Electrical Engineering Major Requirements

J E MATH 3260 (p. 519)	Probability And Statistics For Engineering	3
J E ENGR 2320 (p. 519)	Introduction To Electronic Circuits	3
J E ENGR 2600 (p. 519)	Introduction To Digital Logic And Computer Design	3

J E ENGR 3300 (p. 519)	Engineering Electro Magnetic Principles	3
J E ENGR 3320 (p. 519)	Power, Energy And Polyphase Circuits	3
J E ENGR 3510 (p. 519)	Signals And Systems	3
J E ENGR 4350 (p. 519)	Electrical Energy Laboratory	3
J E ENGR 4980 (p. 519)	Electrical Engineering Design Projects	3
Electrical Engine	ering Electives 3000-4990	
Total Hours		24

Mechanical Engineering Major Requirements

J C ENGR 4950 (p. 519)	Fundamentals Of Engineering Review	1
J E MATH 3260 (p. 519)	Probability And Statistics For Engineering	3
J M ENGR 1413 (p. 519)	Introduction To Engineering Design: CAD	2
J M ENGR 1414 (p. 519)	Introduction To Engineering Design: Project	2
J M ENGR 2410 (p. 519)	Mechanics Of Deformable Bodies	3
J M ENGR 3221 (p. 519)	Mechanical Design And Machine Elements	4
J M ENGR 3250 (p. 519)	Material Science For J M ENGR	4
J M ENGR 3700 (p. 519)	Fluid Mechanics	3
J M ENGR 3710 (p. 519)	Principles Of Heat Transfer	3
J M ENGR 3721 (p. 519)	Fluid Mechanics Laboratory	1
J M ENGR 3722 (p. 519)	Heat Transfer Laboratory	1
J M ENGR 4041 (p. 519)	Current Topics In Engineering Design	1
J M ENGR 4120 (p. 519)	Design of Thermal Systems	3
J M ENGR 4170 (p. 519)	Dynamic Response Of Physical Systems	2
J M ENGR 4180 (p. 519)	Dynamic Response Laboratory	2
J M ENGR 4110 (p. 519)	Mechanical Engineering Design Project	4
Mechanical Engir	neering Electives	
Total Hours		39

Graduation Requirements

In addition to the requirements of the University of Missouri-St. Louis that apply to all candidates for undergraduate degrees, the student must earn a minimum campus grade point average of 2.0 and a minimum grade point average of 2.0 for all engineering courses attempted at the University of Missouri-St. Louis.

Engineering Design and Engineering Science Requirements

The number of semester hours assigned to each engineering course in the Joint Undergraduate Engineering Program is further divided into hours of engineering design, engineering science, and basic science content. Engineering topics is the sum of engineering science hours and engineering design hours. The following table shows the design hours and engineering science hours for courses in the engineering programs.

Each engineering student must complete a curriculum that contains at least 48 hours of engineering topics semester hours, including all courses: pre-engineering requirements, engineering core requirements, major requirements, and electives. Civil, electrical, and mechanical engineering majors should consult with their advisers to select electives at the 3000 and 4000 level that include sufficient engineering design and engineering science content to produce the required totals. Transfer courses from other institutions do not necessarily have the same engineering science and engineering design content as their equivalents in the UMSL/ Washington University Joint Undergraduate Engineering Program. Students who include transfer courses in their curricula should consult with their advisers to be sure that these requirements are met.

Engineering Courses

ENGR 1010 Introduction To Engineering: 1 semester hour

Course consists of a series of lectures on eigineering, fields of study within engineering, the engineering profession, types of work activities, and professional registration. Introduction to team building and the teamwork approach to projects and problem-solving common in an engineering curriculum and in the engineering profession. Guest lecturers will participate.

ENGR 2310 Statics: 3 semester hours

Prerequisites: MATH 1900 and PHYSICS 2111. Statics of particles and rigid bodies. Equivalent systems of forces. Distributed forces; centroids. Applications to trusses, frames, machines, beams, and cables. Friction. Moments of inertia. Principle of virtual work and applications.

ENGR 2320 Dynamics: 3 semester hours

Prerequisite: ENGR 2310. Review of vector algebra and calculus. Kinematics of a particle. Newton's laws and the kinetics of a particle. Work and energy. Impluse and momentum. Kinematics of rigid bodies. General theorems for systems of particles. Kinetics of rigid bodies. The inertia tensor.

Joint Civil Engineering Courses

J C ENGR 2160 Surveying: 3 semester hours

Horizontal and vertical control surveys, including traverses, triangulation, trilateration, and leveling; basic adjustments of observations; geologic data; coordinate systems. Basic route surveying, including horizontal and vertical curves.

J C ENGR 3350 Structural Engineering Materials: 3 semester hours

Prerequisites: ENGR 2310, J M ENGR 2410. Topics to be covered include: mechanical behavior of materials: static tension, compression and bending, yield criteria, dynamic effects, creep, fatigue; structure of metals: atomic bonding, crystal structure, imperfections, dislocations, iron-carbon alloy system, time-temperature-transformation relations, heat treatment of steel-alloy steels; concrete and composites.

J C ENGR 3360 Civil Engineering Materials Lab: 1 semester hour

Testing procedures, testing machines, use of laboratory equipment, analysis of data, and presentation of results. Laboratory tests on static tension, compression, bending, and torsion of metal specimens. Tests on wood. Determination of compressive and tensile strengths of concrete. Design of concrete mixes and verification of strength. Experiments in advanced topics in mechanics of materials.

J C ENGR 3410 Structural Analysis: 3 semester hours

Prerequisite: J M ENGR 2410. A review of the calculation of reactions, shear, and bending moment. Definition, construction and use of influence lines. Deflections for statically determinate structures using the work method. Analysis of statically indeterminate trusses using the method of consistent deformations. Analysis of continuous beams and planar frames using the consistent deformation, slope-deflection and moment distribution methods. The influence of span on strength, stability, and economy of structures. An introduction to structural analysis software.

J C ENGR 3420 Structural Design: 3 semester hours

Prerequisites: J M ENGR 3250, J C ENGR 3410. Fundamentals of structural design in steel, reinforced concrete, and timber. Familiarization with the sources of various design codes and practice in interpreting them. Computer graphics applications.

J C ENGR 3460 Transportation Engineering: 3 semester hours

Fundamental treatment of the planning, engineering, design, and procedural aspects of multimodal transportation are covered. Intermodal freight and urban transportation planning processes and overview of environmental, energy, and economic issues are discussed.

J C ENGR 3520 Water and Wastewater Treatment: 3 semester hours

Prerequisites: J M ENGR 3700 (may be taken concurrently) or permission of instructor. Application of the basic principles of chemistry, microbiology, and fluid mechanics to the analysis of environmental problems, especially those involving control of water and land contamination. Properties of municipal and industrial wastewater, solid waste, and hazardous waste. Estimation of assimilative capacity and other characteristics of receiving waters. Introduction to unit processes and unit operations used in the treatment of municipal and industrial wastewater. Design of processes and facilities used for treating drinking water, wastewater, and sludge disposal. Waste minimization and recycling in both industrial and municipal settings.

J C ENGR 3760 Hydraulic Engineering: 3 semester hours

Prerequisites: J M ENGR 3700. The principles of open channel flow will be discussed and illustrated with practical examples. Methods for channel design, storm sewer, culvert and brige analysis will be presented using the concepts of gradually-varied, steady flow. A design project using computerized analysis and design is used to implement concepts in a large practical application.

J C ENGR 4080 Environmental Engineering Laboratory - Water/Soil: 3 semester hours

Prerequisite: J C ENGR 4430. Laboratory experiments to illustrate the application of engineering fundamentals to environmental systems. Characterization and control of water/soil pollutants. Introduction to relevant analytical instrumentation and laboratory techniques. Laboratory work supported with theoretical analysis and modeling as appropriate.

J C ENGR 4110 Transportation And Land Use: 3 semester hours

J C ENGR 4190 Soil Mechanics: 3 semester hours

Prerequisite: J M ENGR 2410, J M ENGR 3700 Basic geology as it relates to index and classification properties of soil. Exploration, sampling, and testing techniques. Soil classification systems. clay minerals and soil structures. Compaction and stabilization. Capillary, shrinkage, swelling, and frost action in soils. Effective stress, permeability, seepage,and flow nets. Consolidation and consolidation settlements. stresses in soil. Time rate of consolidation. Mohr's circle, stress path, and failure theories. Shearing strength of sand and clays.

*J C ENGR 4200 Soil Exploration And Testing: 1 semester hour*Prerequisite: J C ENGR 4190 (may be taken concurrently). Soil exploration; in-situ soil testing, laboratory testing of soil; processing of test data using a microcomputer; statistical analysis of test data; use of test results in the decision-making process.

J C ENGR 4370 Matrix Structural Analysis: 3 semester hours

Prerequisites: J C ENGR 3410 This course will cover analysis of framed structures, planar and 3-D, using beam-column elements and shear walls and floors. Flexibility and stiffness analyses are performed by generating the matrices and carrying through the analyses step by step with a matrix manipulator program. A commercially available program is used to check at least one problem.

J C ENGR 4390 Computational Structural Mechanics: 3 semester hours

This course is an introduction to analysis and design of structures using finite elements. The topics covered include: Elementary theory of elasticity, Plate theories and Buckling of plate structures: Finite element formulation of 2-D Elasticity and plate problems. Hands on use of commercial finite element software is emphasized throughout. A major design project is included.

J C ENGR 4440 Geographical Information Systems In Transportation: 3 semester hours

Prerequisites: Junior Standing A practical, hands-on approach to spatial database design and spatial data analysis with Geographical Information systems (GIS) as applied to planning and engineering. Course objectives are to examine how digital earth resources data are collected, sorted, analyzed, and displayed. The emphasis will be on transportation problems, although additional applications will be discussed.

J C ENGR 4600 Highway and Traffic Engineering: 3 semester hours
Prerequisites: J C ENGR 2160 and Senior Standing Study of basic
highway design and traffic circulation principles. Study of design elements
of alignment, profile, crosssection, intersection types, interchange types,
and controlledaccess highways. Investigation of functional highway
classification. Traffic volume, delay and accident studies. Analysis of
highway capacity of uninterrupted flow, interrupted flow. Freeway, ramp
and weaving sections.

J C ENGR 4620 Transportation Planning: 3 semester hours

Prerequisites: Senior standing. Course will cover the following fundamentals of multimodial transportation planning, urban study components, including design and organization, origindestination analysis, traditional traffic model processes of trip generation, distribution and assignment, urban transportation entity analysis (shopping centers, terminals, etc.) state and regional study components, including state and national needs and capital improvement programs, regional funding capabilities and related national transportation policy and legislative acts.

J C ENGR 4621 Traffic Operations and Analysis: 3 semester hours

Prerequisites: Senior Standing. Study of traffic system operations and analysis, microsimulation modeling, interchange types, and the fundamentals of highway signing and marking. Introduction into transportation analysis project management. Analysis and design techniques focus on microsimulation modeling and the Manual of Uniform Traffic Control Devices. Material learned is integrated into a major design project.

J C ENGR 4630 Design Of Steel Structures: 3 semester hours

Prerequisites: J C ENGR 3410, J C ENGR 3420. Behaivior and design of steel frames by "allowable stress" and "maximum strength" based on deterministic and LRFD (Load-resistance factor design) methods. Design of beams, columns, beamcolumns, plate girders, connections, multistory frames, and bridge girders, Torsional design of steel structures. Plastic analysis and design of steel structures. Miscellaneous topics in structural steel construction and design.

J C ENGR 4640 Foundation Engineering: 3 semester hours

Prerequisites: J C ENGR 3420, J C ENGR 4190, J C ENGR 4200 Principal problems in design and construction of foundations for bridges and buildings. Bearing capacity of deep and shallow foundations; pressure on retaining walls and shallow foundations; pressure on retaining walls and slope stability; modern developments in piling, cofferdams, open caissons, pneumatic caissons.

J C ENGR 4660 Advanced Design Of Concrete Structures: 3 semester hours

Prerequisites: J M ENGR 3250, J C ENGR 3410, J C ENGR 3420. Flexural behavior and design, strength and deformation of rectangular and nonrectangular sections, shear strength, beamcolumns, long columns, slab systems, design of frames, and footings will be covered.

J C ENGR 4670 Structure Design Projects: 3 semester hours

Prerequisite: Permission of instructor. Students carry out the complete design of typical and unusual building and bridge structures. Use of the computer as a design tool is emphasized. Projects are conducted in cooperation with production engineers.

J C ENGR 4720 Legal Aspects Of Construction: 3 semester hours

Prerequisite: Junior standing or permission of instructor. A survey of the legal problems of the construction manager. Including but limited to, liability in the areas of contracts, agency, torts, insurance, bad judgement and oversight.

J C ENGR 4730 Construction Operations And Management: 3 semester hours

Prerequisite: Junior standing. The construction industry, its development, components, and organization. Contracting methods. Applications and limitions. Selection of equipment using production analysis and economics. Field engineering, including form design, shoring, embankment design. Purchasing and change orders. Safety and claims.

J C ENGR 4740 Economic Decisions In Engineering: 3 semester hours

Prerequisite: Junior standing. Principles of economics involved in engineering decisions. Decisions between alternatives based on the efficient allocation of resources. Topics include the time element in economics, analytical techniques for economy studies, and taxes.

J C ENGR 4741 Construction Project Planning And Scheduling: 3 semester hours

Course will familiarize students with the basic foundation of the construction scheduling process. Included will be a detailed survey of scheduling techniques in an integrated construction planning, scheduling, and control systems. students will gain an understanding of the critical path method theory, legal implications, and practice. Students will learn to use commercial project management and scheduling software and apply it to a variety of construction problems and projects. (This course will be a combination of two intense weekend meetings, a weekly internet contact, and two meetings for course introduction and testing).

J C ENGR 4760 Site Planning And Engineering: 3 semester hours

Prerequisite: Senior standing. A focus on the legal, engineering, and economic aspects of planning and design of facilities at a site-specific level. Concepts of legal and economic feasibility of site design are developed in conjunction with the study of civil engineering activities involved in dealing with urban design alternatives for residential, commercial, industrial, and recreational land uses. Case studies and review of current legislation affecting site planning and engineering are undertaken, culminating in a major design project.

J C ENGR 4811 Inland Water Transportation And Port Plan: 3 semester hours

Prerequisites: Senior Standing. The study, evaluation, and analysis of site design parameters, system configurations, and policy and management issues of port and marine transportation with special emphasis on the Great Lakes and inland, coastal, and inter-coastal waterways.

J C ENGR 4830 Fundamentals of Surface Water Hydrology and Environmental Engineering: 3 semester hours

Prerequisites: Fluid Mechanics and senior statusBulletin description: The principles of the hydrologic cycle including precipitation, evaporation, transpiration, infiltration, runoff, streamflow, and groundwater will be discussed and illustrated. In addition, computational fundamentals of hydrologic analysis will be presented such as unit hydrographs, routing, data analysis, and flood frequency. Elements of quantitative problems in urban stormwater systems and management, water quality and urbanization. Concepts of sustainability and green engineering such as low impact development and other best management practices will be presented. Computer software will be utilized.

J C ENGR 4910 Water Hydrology and Hydraulic Design Project: 3 semester hours

Prerequisites: J M ENGR 3700 Fluid Mechanics, J C ENGR 3760 Hydraulic Engineering, and J C ENGR 4830 Fundamentals of Surface Water Hydrology and Environmental Engineering. This course is designed to provide seniors in Hydrology and Hydraulics with a major design/ facility plan project. The principals of hydrologic and hydraulic design will be utilized in developing the hydrology, hydraulics and floodplain analysis for a local watershed or land area. Hydrologic analysis is performed to size hydraulic systems and evaluate watershed and floodplain performance. The course is structured to apply hydrologic theory and modeling techniques to engineering hydrology and hydraulics for watershed analysis, floodplain delineation, and urban stormwater. The student will also consider the next generation of hydrologic computation, watershed evaluation and the importance of severe storm impacts and flood management. Consideration of sustainability and green infrastructure practices will also be included. A final written report and class presentation of the design project is included.

J C ENGR 4950 Fundamentals Of Engineering Review: 1 semester hour

Prerequisite: Senior Standing The topics found in most engineer-in-training exams will be reviewed and illustrated using examples. A discussion of the importance of licensin exams and the strategies for taking these exams will be discussed. The main topics for the review include: engineering mathematics, basic chemistry, engineering mechanics, engineering economics, thermodynamics, electrical circuits, and material science.

J C ENGR 4990 Senior Civil Engineering Seminar: 1 semester hour Prerequisite: Senior standing. Students will research assigned topics of importance to graduates entering the Civil Engineering profession and prepare oral presentations and a written report. Student presentations will be augmented by lectures from practicing professionals. Topics include professional registration, early career development, graduate study, effective presentations, construction quality, and case histories of civil

Joint Computer Science Courses

engineering projects.

J CMP SC 1002 Introduction To Computing Tools: Matlab Skills: 1 semester hour

This course is aimed at the acquisition of MATLAB skills through handson familiarization and practice. Students practice the array, vector, and meshgrid representations, programming and plotting, and apply these skills to solve numerical problems and generate reports. (J CMP SC 1002 and CMP SCI 1250 can substitute for J CMP SCI 1360).

J CMP SC 1260 Introduction To Computer Programming: 3 semester hours

Workshop course (lectures and supervised laboratory sessions) covering the fundamental organization and operating principles of digital computers and the systematic design and development of well-structured programs. After an intensive exposure to algorithmic principles and programming techniques and practices using the JAVA language, students learn about a computer's internal structure through the use of simple Von Neumann machine simulator.

Joint Electrical Engineering Courses

J E ENGR 2300 Introduction To Electrical Networks: 3 semester hours

Elements, sources, and interconnects. Ohm's and Kirchoff's laws, superposition and Thevenin's theorem; the resistive circuit, transient analysis, sinusoidal analysis, and frequency response.

J E ENGR 2320 Introduction To Electronic Circuits: 3 semester hours

Prerequisites: J E ENGR 2300 Introduction to contemporary electronic devices and their circuit applications. Terminal characteristics of active semiconductor devices. Incremental and D-C models of junction diodes, bipolar transistor (BJTs), and metal-oxide semiconductor field effect transistors (MOSFETs) are developed and used to design single-and multi-stage amplifiers, Models of the BJT and MOSFET in cutoff and saturation regions are used to design digital circuits.

J E ENGR 2330 Electrical And Electronic Circuits Laboratory: 3 semester hours

Prerequisites: J E ENGR 2300 Lectures and laboratory exercises related to sophomore topics in introductory networks and basic electronics.

J E ENGR 2600 Introduction To Digital Logic And Computer Design: 3 semester hours

Prerequisite: J CMP SC 1260. Digital computers and digital information-processing system; Boolean algebra, principles and methodology of logical design; machine language programming; register transfer logic; microprocessor hardware, software, and interfacing; fundamental of digital circuits and systems; computer organization and control; memory systems; arithmetic unit design. Occasional laboratory exercises.

J E ENGR 3300 Engineering Electro Magnetic Principles: 3 semester hours

Electromagnetic theory as applied to electrical engineering; vector calculus; electrostatics and magnetostatics; Maxwell's e quations, including Poynting's theorem and boundry conditions; uniform planewave propagation; transmission lines-TEM modes, including treatment of general, lossless line, and pulse propagation; introduction to guided waves; introduction to radiation and scattering concepts.

J E ENGR 3310 Electronics Laboratory: 3 semester hours

Prerequisites: J E ENGR 2300, J E ENGR 2330. Laboratory exercises for juniors covering topics in computeraided measurements, computer simulation, and electronic circuits.

J E ENGR 3320 Power, Energy And Polyphase Circuits: 3 semester hours

Prerequisite: J E ENGR 2300. Fundamental concepts of power and energy; electrical measurements; physical and electrical arrangement of electric power systems; polyphase circuit theory and calculations; principle elements of electrical systems such as transformers, rotating machines, control, and protective devices, their description and characteristics; elements of industrial power system design.

J E ENGR 3360 Principles Of Electronic Devices: 3 semester hours

Introduction to the solid-state physics of electronic materials and devices, including semiconductors, metals, insulators, diodes and transistors, Crystals growth technology and fundamental properties of crystals. Electronic properties and band structure of electronic materials, and electron transport in semiconductor materials. Fabrication of pn junction diodes, metal-semiconductor junctions, and trnasistors and integrated circuit chips. Fundamental electrical properties of rectifying diodes and light-emitting diodes, bipolar transistors and field effect transistors. Device physics of diodes and transistors, large-signal electrical behavior and high-frequency properties.

J E ENGR 3370 Electronic Devices And Circuits: 3 semester hours

Prerequisites: J E ENGR 2320. Introduction to semiconductor electronic devices: transistors and diodes. Device electrical DC and high-frequency characteristics. Bipolar transistors, field-effect transistors for analog electronics applications. Transistors fabrication as discrete devices and as integrated-circuit chips. Large-signal analysis of transistor amplifiers: voltage gain, distortion, input resistance and output resistance. Analysis of multitransistor amplifiers: Darlington, Cascode, and coupled-pair configurations. Half-circuit concepts, differential-mode gain, commonmode gain, and differential-to-single-ended conversion. Transistor current sources, active loads, and power-amplifier stages. Applications to operational amplifiers and feedback circuits.

J E ENGR 3510 Signals And Systems: 3 semester hours

Prerequisites: J E ENGR 2300 and J E MATH 3170. Elementary concepts of continuous-time and discrete-time signals and systems. Linear time-invariant (LTI) systems, impulse response, convolution, Fourier series, Fourier transforms, and frequency-domain analysis of LTI systems. Laplace transforms, Z-transforms, and rational function descriptions of LTI systems. Principles of sampling and modulation. Students participate weekly in recitaion sections to develop oral communications skills using class materials.

J E ENGR 3610 Introduction To Systems Software: 3 semester hours

Prerequisites: CMP SCI 1250. Introduction to the hardware and software foundations of computer processing systems. Examines the process whereby computer systems manage, interpret, and execute applications. Covers fundamental algorithms for numerical computation, memory organization and access, storage allocation, and the sequencing and control of peripheral devices. Weekly laboratories, exercises, and a final laboratory project.

J E ENGR 3620 Computer Architecture: 3 semester hours

Prerequisite: J E ENGR 2600. Study of interaction and design philosophy of hardware and software for digital computer systems: Machine organization, data structures, I/O considerations. Comparison of minicomputer architectures.

J E ENGR 4000 Independent Study: 1-3 semester hours

Prerequisites: Senior in Good Standing. Opportunities to acquire experience outside the classroom setting and to work closely with individual members of the faculty. A final report must be submitted to the department. Open as a senior elective only. Hours and credit to be arranged. Credit variable, maximum credit per semester 3 hours. Maximum program total credit 3 hours.

J E ENGR 4050 Reliability And Quality Control: 3 semester hours

Prerequisites: J M ENGR 3260 or MATH 1320. An integrated analysis of reliability and quality control function in manufacturing. Statistical process control, analysis, reliability prediction, design, testing, failure analysis and prevention, maintainability, availability, and safety are discussed and related. Qualitative and quantitative aspects of statistical quality control and reliability are introduced in the context of manufacturing.

J E ENGR 4120 Rf And Microwave Wireless Technology: 3 semester hours

J E ENGR 4330 Radio Frequency and Microwave Technology for Wireless Systems: 3 semester hours

Prerequisites: J E ENGR 3300. Focus is on the components and associated techniques employed to implement analog and digital radio frequency (RF) and microwave (MW) transceivers for wireless applications, including: cell phones; pagers; wireless local area networks; global positioning satellite based devices; and RF identification systems. A brief overview of system-level considerations is provided, including modulation and detection approaches for analog and digital systems; multiple-access techniques filter design; active component modeling; matching and biasing networks; amplifier design; and miser design.

J E ENGR 4340 Solid State Power Circuits And Applications: 3 semester hours

Prerequisite: J E ENGR 2320, J E ENGR 3510. Study of the strategies and applications of power control using solid-state semiconductor devices. Survey of generic power electronic converters. Applications to power supplies, motor drives, and consumer electronics. Introduction to power diodes, thyristors, and MOSEFETs.

J E ENGR 4350 Electrical Energy Laboratory: 3 semester hours

Prerequisites: J E ENGR 2330. Experimental studies of principles important in modern electrical energy systems. Topics: power measurement, transformers, batteries, static frequency converters, thermoelectric cooling, solar cells, electrical lighting, induction, commutator, and brushless motors, synchronous machines.

J E ENGR 4360 Energy Alternatives: 3 semester hours

Prerequisites: J E ENGR 2300, or J M ENGR 3200. This course introduces engineering analyses of the human uses of energy. Both non-renewable (e.g., oil, natural gas, coal, nuclear) and sustainable (e.g., hydropower, solar, wind, biomass) resources are covered. Topics include the engineer's role in harvesting, production, storage, conversion, delivery, and uses of energy. Students will learn system analysis, design, integration, optimization, and operational aspects of selected resources delivery systems, and end uses. Technical content will include site selection, conversion and delivery efficiency calculations, engineering economic analyses, control systems, and energy resource systematic classification. Measure will consist of a mix of homework, quizzes, tests, class participation, and projects.

J E ENGR 4410 Control Systems I: 3 semester hours

Same as J M ENGR 4310. Prerequisites: J E MATH 3170, J E ENGR 2300. Introduction to automatic control concepts. Block diagram representation of single and multiloop systems. Multi-input and multi-output systems. Control system components. Transient and steady-state performance; stability analysis; Routh, Nyquist, Bode, and root locus diagrams. Compensation using lead, lag and lead-lag networks. Synthesis by Bode plots and root-locus diagrams. Introduction to state-variable techniques, state-transition matrix, state-variable feedback.

J E ENGR 4420 Digital Control Systems: 3 semester hours

Prerequisites: J M ENGR 4310. The control of physical systems with a digital computer, microprocessor, or special-purpose digital hardware is becoming very common. Course continues J M ENGR 4310 to develope models and mathematical tools needed to analyze and design these digital, fedback-control systems. Linear, discrete dynamic systems. The Z-transform. Discrete equivalents to continuous transfer functions. Sampled-data control systems. Digital control systems design using transfer and state-space methods. Systems comprised of digital and continuous subsystems. Quantization effects. System ientification. Multivariable and optimum control.

J E ENGR 4520 Power Systems Analysis: 3 semester hours

Prerequisite: J E ENGR 3320. Introduction to the modeling and elements of power systems; machines, lines, and loads; load flow methods and applications; short circuit analysis using symmetrical components on symmetrical and unsymmetrical faults; methods of economic operation of power systems and contingency; state estimators, stability, and introduction of the independent system operator.

J E ENGR 4630 Digital Integrated Circuit Design And Architecture: 3 semester hours

Prerequisites: JEE 2320 and JEE 3620. Brief review of device characteristics important to digital circuit operation, allowed by detailed evaluation of steady-state and transient behavior of logic circuits. Implications of and design techniques for very large-scale integrated circuits including architecture, timing, and interconnection. Students must complete detailed design and layout of a digital circuit. Major emphasis on MOS digital circuits with some comparisons to other technologies.

J E ENGR 4650 Digital Systems Laboratory: 3 semester hours

Prerequisites: J E ENGR 2600 and J E ENGR 2320. Procedure for reliable digital design, both combinational and sequential; understanding manufacturers' specifications; use of special test equipment; characteristics of common SSI, MSI, and LSI devices; assembling, testing, and simulating design; construction procedures; maintaining signal integrity, Several design projects, and application of a microprocessor in digital design. Microprocessor programs are written in assembly language on a host computer and down loaded to the laboratory station for debugging. One lecture and one laboratory period a week.

J E ENGR 4680 Applied Optics: 3 semester hours Prerequisites: JEE 3300.

J E ENGR 4710 Communications Theory And Systems: 3 semester hours

Prerequisites: J E ENGR 3510 and J E MATH 3260. Introduction to the concepts of transmission of information via communication channels. Amplitude and angle modulation for the transmission of continuoustime signals. Analog-to-digital conversion and pulse code modulation. Transmission of digital data. Introduction to random signals and noise and their effects on communication. Optimum detection systems in the presence of noise. Elementary information theory. Overview of various communication technologies such as radio, television, telephone networks, data communication, satellites, optical fiber, and cellular radio.

J E ENGR 4720 Internet Communications: 3 semester hours

This course will introduce and cover the architecture, protocols, security, and quality of service (QoS) of Internet Communications. Starting with the design principles and architecture of the Internet, communication applications such as Voice over IP (VoIP), video conferencing, and presence and instant messaging will be covered. Protocols developed by the Internet Engineering Task Force (IETF) including IP, TCP, UDP, DNS, SIP, XMPP, and ENUM will be studied. Latest areas of research including the Service Oriented Architecture (SOA) and peer-to-peer (P2P) architectures for Internet Communications will be covered.

J E ENGR 4820 Digital Signal Processing: 3 semester hours

Prerequisite: J E ENGR 3510. Introduction to alalysis and synthesis of discrete-time linear time-invariant (LTI) systems. Discretetime convolution, discrete-time Fourier transform, Z-transform, rational function discriptions of discrete-time LTI systems. Sampling, analog-to-digital conversion and digital processing of analog signals. Techniques for the design of finite impulse response (FIR) and infinite impulse response (IIR) digital filters. Hardward implementation of digital filters and finiteregister effects. The discrete Fourier transform and the fast Fourier transform (FFT) algorithm.

J E ENGR 4980 Electrical Engineering Design Projects: 3 semester hours

Prerequisites: Senior standing. Working in teams, students address design tasks assigned by faculty. Each student participates in one or more design projects in a semester. Projects are chosen to emphasize the design process, with the designer choosing one of several paths to a possible result. Collaboration with industry and all divisions of the univesity is encouraged.

Joint Engineering Mathematics Courses

J E MATH 3170 Engineering Mathematics: 4 semester hours

Prerequisite: MATH 2020 or equivalent. The Laplace transform and applications; series solutions of differential equations, Bessel's equation, Legendre's equation, special functions; matrices, eigenvalues, and eigenfunctions; Vector analysis and applications; boundary value problems and spectral representation; Fourier series and Fourier integrals; solution of partial differential equations of mathematical physics.

J E MATH 3260 Probability And Statistics For Engineering: 3 semester hours

Prerequisites: MATH 2000. Study of probability and statistics together with engineering applications. Probability and statistics: random variables, distribution functions, density functions, expectations, means, variances, combinatorial probability, geometric probability, normal random variables, joint distribution, independence, correlation, conditional probability, Bayes theorem, the law of large numbers, the central limit theorem. Applications: reliability, quality control, acceptance sampling, linear regression, design and analysis of experiments, estimation, hypothesis testing. Examples are taken from engineering applications. This course is required for electrical and mechanical engineering majors.

Joint Mechanical Engineering Courses

J M ENGR 1413 Introduction To Engineering Design: CAD: 2 semester hours

An introduction to engineering design in the context of mechanical engineering. Students learn the fundamentals of spacial reasoning and graphical representation. Freehand sketching, including pictorial and orthographic views, are applied to the design process. Computer modeling techniques provide accuracy, analysis, and visualization tools necessary for the design of devices and machines. Topics in detailing design for production, including fasteners, dimensioning, tolerancing, and creation of part and assembly drawings are also included.

J M ENGR 1414 Introduction To Engineering Design: Project: 2 semester hours

An introduction to engineering design in the context of mechanical engineering. Students first complete a series of experiments that introduce physical pheonomena related to mechanical engineering. Understanding is achieved by designing and building simple devices and machines. The course proceeds to a design contest in which the students design and build from a kit of parts a more significant machine that competes in a contest held at the end of the course. The course is open to all and is appropriate for anyone interested in mechanical devices, design, and the design process.

J M ENGR 1415 Introduction To Engineering Design: Cad: 2 semester hours

An introduction to engineering design in the context of mechanical engineering. Students learn the fundamentals of spacial reasoning and graphical representation. Freehand sketching, including pictorial and orthographic views, are applied to the design process. Computer modeling techniques provide accuracy, analysis, and visualization tools necessary for the design of devices and machines. Topics in detailing design for production, including fasteners, dimensioning, tolerancing, and creation of part and assembly drawings are also included.

J M ENGR 2410 Mechanics Of Deformable Bodies: 3 semester hours

Prerequisites: MATH 1900 and ENGR 2310. Normal and shear stresses and strains. Stress-strain diagrams. Hooke's law and elastic energy. Thermal stresses. Stresses in beams, columns, torsional members, and pressure vessels. Elastic deflection of beams and shafts. Statically indeterminate structures. Mohr's circle of stress. Stability concepts.

J M ENGR 3010 Computer Aided Design: 3 semester hours

Prerequisite; J M ENGR 1413. Computer aided design, analysis and optimization of parts and assemblies; solid modeling of complex surfaces, creation of detail drawings, dimensioning and tolerancing; assembly modeling, assembly constraints, interference checking; motion constraints, force and acceleration analysis, thermal analysis; part optimization for weight, strength and thermal characteristics using Unigraphics software.

J M ENGR 3200 Thermodynamics: 3 semester hours

Prerequisites: MATH 1900, CHEM 1111 and PHYSICS 2111. Classical thermodynamics; thermodynamic properties; work and heat; first and second laws. Entropy, irreversibility, availability. Application to engineering

J M ENGR 3221 Mechanical Design And Machine Elements: 4 semester hours

Prerequisites: J M ENGR 1414, J M ENGR 1415, J M ENGR 2410, J E MATH 3170. Provides a thorough overview of the steps in the engineering design process and introduces analytical/quantitative techniques applicable to each step. Topics include recognition of need, specification formulation, concept generation, concept selection, embodiment, and detail design. Includes an introduction to several classes of machine elements such as bearings, gears, belts, and springs. Underlying analytical model of the machine elements are presented along with guidelines about designing and choosing such elements for practical applications. A case study from industry will emphasize how the steps of the design process were done as well as the rational for choosing particular machine elements.

J M ENGR 3230 Machine Design Laboratory: 2 semester hours Prerequisites: JME 3220 and JME 3230 must be taken during the same

semester. Laboratory problems focusing on materials covered in JME 222.

J M ENGR 3250 Material Science For J M ENGR: 4 semester hours Prerequisites: CHEM1111. Introduces the chemistry and physics of engineering materials. Emphasis on atomic and molecular interpretation of physical and chemical properties, the relationships between physical and chemical properties, and performance of an engineering material.

J M ENGR 3360 Material Science For J C ENGR: 3 semester hours Same as J M ENGR 3250, but without the lab. Prerequisite: CHEM 1111. Introduces the chemistry and physics of engineering materials Emphasis on atomic and molecular interpretation of physical a chemical properties, the relationships between physical and chemical properties, and performance of an engineering material.

J M ENGR 3700 Fluid Mechanics: 3 semester hours

Prerequisites: J E MATH 3170 and ENGR 2320. Fundamental concepts of fluids as continua. Viscosity. Flow field: velocity, vorticity, streamlines. Fluid statics: hydrostatic forces manometers. Conservation of mass and momentum. Incompressible inviscid flow. Dimensional analysis and similitude. Flow in pipes and ducts. Flow measurement. Boundary-layer concepts. Flow in open channels.

J M ENGR 3710 Principles Of Heat Transfer: 3 semester hours

Prerequisites: J M ENGR 3200, J M ENGR 3700 and J E MATH 3170. Introductory treatment of the principles of heat transfer by conduction, convection, or radiation. Mathematical analysis of steady and unsteady conduction along with numerical methods. Analytical and semiempirical methods of forced and natural convection systems. Heat exchangers: LMTD and e-NTU analysis. Boiling and condensation heat transfer. Radiation between blackbody and real surfaces. Radiation network analysis.

J M ENGR 3721 Fluid Mechanics Laboratory: 1 semester hour

Prerequisites: J M ENGR 3700 Physical laboratory exercises focusing on fluid properties and flow phenomena covered in J M ENGR 3700. Calibration and use of a variety of equipment; acquisition, processing, and analysis of data by manual as well as automated methods.

J M ENGR 3722 Heat Transfer Laboratory: 1 semester hour

Prerequisites: J M ENGR 3721 and J M ENGR 3710. Physical laboratory exercises, including some numerical simulations and computational exercises, focusing on heat-transfer phenomena covered in J M ENGR 3710. Calibration and use of variety of laboratory instrumentation; acquisition, processing, and analysis of data by manual as well as automated methods; training in formal report writing.

J M ENGR 3750 Fluid Control and Power Systems Theory And Practice: 3 semester hours

Prerequisite: J M ENGR 3700. Topics to be covered include: design of hydraulic and pneumatic control and power systems using advanced concepts and analytical tools; analysis of fluid flow through small orifices and between parallel and inclined planes; theory of spool and flapper valves; physical configuration of practical components: pumps, motors, fluid lines and valves, accumulators and storage devices; integration of components into practical systems, development of realistic performance diagrams using MATLAB Symulink; application of performanc diagrams in design and analysis of fluid power systems.

J M ENGR 4000 Independent Study: 3 semester hours

Prerequisites: Junior standing and consent of faculty advisor Independent investigation of a mechanical engineering topic of special interest to a student performed under the direction of a faculty member.

J M ENGR 4041 Current Topics In Engineering Design: 1 semester hour

Case studies of engineering failures, class discussion & short written papers are used to illustrate and stress the importance of engineering teamwork, ethics, and professional standards within the mechanical engineering discipline. Working in teams students develop and present a case study on a topic of their choice. Guest lecturers introduce contemporary topics such as product liability, environmental regulations, green design, appropriate technologies, and concurrent engineering.

J M ENGR 4110 Mechanical Engineering Design Project: 4 semester hours

Prerequisites: J M ENGR 3221. Feasibility study of an open-ended, original design or a creative redesign of a mechanical component or system requiring the application of engineering science principles. Feasibility is subject to economic, safety, legal, environmental, ethical, aesthetic, and other constraints in a competitive manufacturing environment. Project teams perform the detailed design and optimization of the concept developed in the feasibility study. Presentations and reports with manufacturing drawings and prototypes are completed by each team.

J M ENGR 4120 Design of Thermal Systems: 3 semester hours

Prerequisites: Senior Standing. Analysis and design of advanced thermofluid systems. Student teams participate in the design process which could involve research, design formulation, codes, standards, engineering economics, a design project report, and formal presentations. Topics include: thermal-fluid systems and components, such as power, heating, and refrigeration systems, pumps, fans, compressors, combustors, turbines, nozzles, coils, heat exchangers and piping.

J M ENGR 4170 Dynamic Response Of Physical Systems: 2 semester hours

Prerequisites: ENGR 2320 and J E MATH 3170. J M ENGR 4170 and J M ENGR 4180 must be taken in the same semester. Free and forced vibration of mechanical systems with lumped inertia, springs, and dampers. Methods of Laplace transform, complex harmonic balance, and Fourier series. Electrical analogs. Introduction to Lagrange's equations of motion and matrix formulations. Transient response of continuous systems by partial differential equations, by rayleigh methods, and by lumped parameters.

J M ENGR 4180 Dynamic Response Laboratory: 2 semester hours PREREQUISITES: J M ENG 4170 and J M ENGR 4180 must be taken during the same semester. Laboratory problems focusing on materials covered in J M ENGR 4170.

J M ENGR 4240 Manufacturing Processes: 3 semester hours

PREREQUISITES: Senior standing. Indtroduction to the processes used in making basic components for machines and structures. Emphasis is on the underlying scientific principles for such manufacturing processes as casting, forging, extrusion and machining.

J M ENGR 4250 Material Selection In Engineering Design: 3 semester hours

PREREQUISITES: Senior standing. Analysis of the scientific bases of material behavior in the light of research contributions of the last 20 years. Development of a rational approach to the selection of materials to meet a wide range of design requirements for conventional and advanced applications. Although emphasis will be placed on mechanical properties, other properties of interest in design will be discussed, e.g., acoustical, optical and thermal.

J M ENGR 4310 Control Systems I: 3 semester hours

Same as J E ENGR 4410. Prerequisites: J E MATH 3170, J E ENGR 2300. Introduction to automatic control concepts. Block diagram representation of single and multi-loop systems. Multi-input and multi-output systems. Control system components. Transient and steady-state performance; stability analysis; Routh, Nyquist, Bode, and root locus diagrams. Compensation using lead, lag, and lead-lag networks. Synthesis by Bode plot plots and root-locus diagrams. Introduction to state-variable techniques, state transition matrix, state-variable feedback.

J M ENGR 4440 Solar Energy: 3 semester hours

Prerequisites: JME 3200, JME 3700, and JME 3710 This course will cover the following topics: extraterrestrial solar radiation; solar radiation on the earth's surface; weather bureau data; review of selected toics in heat transfer; methods of solar energy collection including flat panel and concentrating collectors; solar energy storage; transient and long-term solar system and performance.

J M ENGR 4630 Nanotechnology: Concepts And Applications: 3 semester hours

J M ENGR 4700 Sustainable Environmental Building Systems: 3 semester hours

Sustainable design of building lighting and HVAC systems considering performance, life-cycle cost and downstream environmental impact. Criteria, codes and standards for comfort, air quality, noise/vibration and illumination. Life cycle and other investment methods to integrate energy consumption/conservation, utility rates, initial cost, system/component longevity, maintenance cost and building productivity. Direct and secondary contributions to acid rain, global warming and ozone depletion.

J M ENGR 4810 HVAC Analysis and Design I: 3 semester hours
PREREQUISITES: Senior standing. Moist air properties and the
psychrometric chart. Classic moist air processes and design procedures
for heating and cooling systems. Design of heating, ventilating, and air
conditioning systems for indoor environmental comfort and health. Basics
of heat transfer in building structures. Solar radiation effects on building
heat transfer. Calculation procedures for the analysis of heating and
cooling loads in buildings.

J M ENGR 4820 HVAC Analysis and Design II: 3 semester hours
PREREQUISITES: Senior standing. Energy calculations to estimate
the quantity of energy needed to heat and cool building structures.
Fundamentals of incompressible flow, basics of centrifugal pump
performance, and design procedures for water piping systems. Space air
diffuser design to assure that temperatures, humidities, and air velocities
within occupied spaces are acceptable. Air duct design and fan analysis
for optimally distributing air through building air duct systems. Performance
analysis of refrigeration systems, including the effects of pressure losses
and heat transfer. Direct contact heat and mass transfer.

J M ENGR 4900 Engineering Project Management: 3 semester hours
Basic fundamentals and advanced concepts of engineering project
management applicable to projects and programs, both large and small.
Project management skills, techniques, systems, software and application
of management science principles will be covered and related to research,
engineering, architectural, and construction projects from initial evaluations
through approval, design, procurement, construction and startup.

School of Professional and Continuing Studies

As the region's only public research university, UMSL serves students who are in many ways nontraditional in their demographic makeup, their approach to higher education, and their educational needs. Meeting the needs of these nontraditional students while extending the expertise of the university to the community is the mission of the School of Professional & Continuing Studies (PCS).

Through PCS, the university's colleges, schools, and centers administer a wide variety of credit courses, noncredit programs, and problemoriented research for the benefit of the greater St. Louis metropolitan area and beyond. Programs are offered both on and off campus and online. Research, generally of an applied, urban-related nature, is designed to solve specific problems of client groups.

Arts and Sciences

PCS in the College of Arts and Sciences includes credit courses and noncredit programs from the college's departmental disciplines, including courses and workshops in archaeology, microcomputers, writing, languages, history, and social and physical sciences. Interdisciplinary teaching and research programs deal with such fields as social work, the humanities, women's studies, and economics.

The **Center for Entrepreneurship & Economic Education** provides credit courses, noncredit programs and curriculum consultations to teachers and schools.

The **Computer Education & Training Center** develops and teaches applied computer courses and offers 10 specialized Chancellor's Certificate programs.

The **Advanced Credit Program** provides an enrichment experience for university-bound secondary students by offering freshman-level courses for college credit in selected high schools.

The **Gateway Writing Project** offers credit courses, noncredit programs, and a Graduate Certificate in the Teaching of Writing for elementary, secondary, and college-level teachers. The Gateway Writing Project works with schools and districts to provide professional development programs that meet their individual needs.

Business Administration

PCS credit and noncredit programs through the College of Business Administration are offered in multiple areas, including financial planning; training, facilitation and coaching best practices; organizational development; team leadership; human resource management; broad survey courses; a variety of short, targeted offerings; and customized courses designed to meet individual client needs. Several certificate programs are offered as well as preparatory courses for professional certification programs in financial planning, human resources, and project management.

Education

The College of Education, which is accredited by the National Council for Accreditation of Teacher Education (NCATE) for the preparation of teachers, counselors, and administrators, offers an array of graduate and doctoral programs. Through the university's School of Professional

& Continuing Studies, courses and programs are offered for both practitioners and those considering the field of education as a career. Many credit courses are available at sites throughout the metropolitan area, and professional development conferences and institutes are specially designed to help practitioners stay current in their fields of study. Programs also can be tailored to meet the specific needs of groups or organizations and can be offered on-site or at other convenient places and times.

Transition to Teaching Program

The Transition to Teaching Program provides a special certification route for individuals who currently hold bachelor degrees and who want to enter the teaching profession. The program is job-embedded and individuals work full-time in classrooms while taking their certification coursework.

Fine Arts and Communication

The College of Fine Arts and Communication offers a variety of continuing studies activities to the community. Four endowed professorships are focused on community outreach in the arts. The award-winning E. Desmond Lee Music Education Collaborative, and other collaborative activities undertaken by CoFAC in conjunction with arts organizations in the greater St. Louis area, all contribute to the college mission. A range of credit and noncredit fine arts outreach programs are offered in partnership with the St. Louis Symphony, Dance St. Louis, Opera Theatre of Saint Louis, Saint Louis Art Museum, and the Saint Louis Black Repertory Company.

Graduate School and Public Policy Administration

The Nonprofit Management & Leadership Program offers comprehensive education and training for professional staff, board members, and other leaders of nonprofit and voluntary organizations, as well as students and others wishing to explore a future in the field. Through PCS, the program offers noncredit seminars, workshops, and conferences, both on and off campus.

Nursing

The College of Nursing offers an RN–BSN program for registered nurses both on and off campus. Currently, the college offers the RN–BSN courses at St. Charles Community College, the SSM Health System at DePaul Health Center, and Mercy Hospital in St. Louis. The MSN/FNP Program is offered at various outreach sites, depending on interest.

Optometry

The College of Optometry offers COPE-approved advanced higher education programs that meet the requirements of state boards for individual relicensing. The dissemination of research data along with interactive panel programs of discussions of current issues are developed to advance clinical vision care.

Off-Campus Sites

PCS offers credit courses leading to degree completion at various metropolitan sites, including St. Charles Community College, Mineral Area College, Jefferson College, St. Louis Community College South County Education and University Center, and St. Louis Community College at Wildwood and at Forest Park.

Community Partnership Project

The Community Partnership Project develops initiatives that link university resources with the needs and priorities of residents and communities in the St. Louis region. The Community Partnership Project sponsors seminars and brown bag sessions, convenes teams to respond to key urban issues, and provides support for faculty and students in connecting with community organizations.

Executive Leadership Consortium

The UMSL Executive Leadership Consortium offers on-campus and off-campus credit and noncredit programs, contract programs, consultation, and action research through various campus units. These programs are offered in multiple areas, including leadership education training and advancement. A variety of short, targeted offerings and customized courses are designed to meet individual client needs. These programs and courses are developed on our own initiative and in response to expressed needs to best meet the needs of the lifelong learner.

J.C. Penney Conference Center

This large conference facility at UMSL houses a 435--seat auditorium, as well as six large and four small conference rooms, designed to provide an excellent academic environment and maximum convenience for course participants. A complete conference staff provides administrative support for seminars and conferences, as well as coordination for special hosted programs each year.

International Studies and Programs

General Information

The Office of International Studies and Programs (ISP) supports academic programs, seminars, and conferences designed to promote research in international studies, improve teaching of international studies, and encourage an interest in international affairs in the university and area communities.

ISP houses the Joint Center for East Asian Studies of UMSL and Washington University, the E. Desmond Lee Global Ethnic Collaborative, the Karakas Family Foundation Alliance for the Advancement of Hellenic Studies, and the Endowed Professorships in African/African American Studies, Chinese Studies, Greek Studies, international education, Irish Studies, Japanese Studies, the German Culture Center and the Greek Culture Center.

Fellows

Each year a number of UMSL faculty are appointed as research Fellows.

Study Abroad and Exchange Programs

The Study Abroad section of this Bulletin contains details about campus study abroad and international exchange programs. ISP's Study Abroad Office administers those programs.

Office of International Student and Scholar Services

The Office of International Student and Scholar Services provides services for international students and scholars, including admissions, visa and immigration matters, credential evaluations, health insurance, tax matters, nonacademic advising, initial campus arrival, orientation, social activities, and referrals to other campus units.

Undergraduate Certificate Programs

The Office of International Studies and Programs (ISP) offers a wide variety of certificates, which provide our students the opportunity to develop expertise in international subjects. These programs usually combine course offerings from several departments so the subject is examined from a multidisciplinary approach. While most persons who earn certificates do so in the process of completing their undergraduate degree, a certificate may be completed by non-degree seeking students.

Africana Studies Certificate

Students seeking the Africana studies certificate have two options: an emphasis in African studies and an emphasis in African diaspora studies.

Option I. African Studies:

Select at least one course in two of the following areas: 9

Area 1: Anthropology

ANTHRO 2124 Cultures Of Africa (p. 532)

Area 2: Art and Art History

ART HS 1105 Introduction To The Arts Of Africa (p. 532)

Area 3: History

HIST 1061 (p. African Civilization: From The Beginning of 532)
Humanity to The End of The Slave Trade
HIST 1062 (p. African Civilization II: From Colonies to Nations

532)

Area 4: Political Science

POL SCI 2580 African Politics

(p. 532)

Select one course from each of the following areas:

6

Area 1: Anthropology

ANTHRO 3235 Women In Subsaharan Africa: A Contemporary

(p. 532) Perspective

Area 2: History

HIST 2062 West Africa Since 1800 ¹

An independent study course in which a research paper will be written on some aspect of one of the fields offered in the program.

Total Hours 18

This course will not be offered in 2013-2014. Contact department for

Option II. African Diaspora Studies

Select one course from each of the following areas:

6

Area 1: Africa

Anthropology

more information.

ANTHRO 2124 Cultures Of Africa

(p. 532)

History

HIST 1061 (p. African Civilization: From The Beginning of 532) Humanity to The End of The Slave Trade

HIST 1062 (p. African Civilization II: From Colonies to Nations 532)

Area 2: Diaspora

Anthropology

ANTHRO 1005 Introduction To Biological Anthropology (p. 532)

History

HIST 1003 (p. African-American History

532)

HIST 2016 (p. African-American History: From Slavery to Civil

532) Rights

HIST 2017 (p. African-American History: From Civil Rights To

532) Black Power

Select at least one course from each of the following areas:

9

Area 1: Africa

Anthropology

ANTHRO 2191 Special Topics In Non-Western Culture (p. 532)

ANTHRO 3235 Women In Subsaharan Africa: A Contemporary (p. 532) Perspective

Art and Art History

ART HS 1105 Introduction To The Arts Of Africa (p. 532)

3

ŀ	History		
H	HIST 2062	West Africa Since 1800 ¹	
F	Political Scienc	e	
-	POL SCI 2580 (p. 532)	African Politics	
Are	a 2: Diaspora		
(Communication	1	
1	COMM 3332 (p. 532)	Intercultural Communication	
H	History		
	HIST 2015 (p. 532)	Topics In African-American History	
	HIST 2063 (p. 532)	African Diaspora To Abolition of the Slave Trade	
	HIST 2064 (p. 532)	African Diaspora in the Age of Migration	
N	Music		
	M H L T 1060 (p. 532)	Introduction To African-American Music	
F	Political Scienc	e	
	POL SCI 2320 (p. 532)	African Americans And The Political System	
5	Sociology		
	SOC 4360 (p. 532)	Sociology Of Minority Groups	
	•	tudy course in which a research paper will be written fone of the fields offered in the program.	3
Tota	al Hours		18
1	This course w	rill not be offered in 2013-2014. Contact department for	or

more information.

East Asian Studies Certificate

First- and second-year Chinese, Japanese, or other appropriate Asian 20 language

HIST 1041 (p. 532)	East Asian Civilization	3
HIST 1042 (p. 532)	East Asian Civilization	3
Select one cours	e in three of the following areas:	9

Area 1: Anthropology

ANTHRO 2111 Cultures Of East Asia (p. 532)

ANTHRO 2191 Special Topics In Non-Western Culture (p. 532)

Area 2: Art and Art History

ART HS 1108 Introduction To The Arts Of Asia (p. 532)

ART HS 4408 Topics In The Arts Of Asia (p. 532)

Area 3: Business Administration

INTL BUS 3281 Business In China (p. 532)

INTL BUS 3284The Japanese Management System (p. 532)

Area 4: Foreign Languages and Literatures-Chinese

CHINESE 1005 Chinese Calligraphy and Writing in East Asia (p. 532)

CHINESE 1199Special Topics: Language Immersion: Chinese (p. 532)

CHINESE 2150 Chinese Literature In Translation (p. 532)

CHINESE 2190 Special Readings

JAPAN 1003 Japanese III

(p. 532)

CHINESE 2199 Special Topics: Language Immersion: Chinese (p. 532)

Area 5: Foreign Languages and Literatures-Japanese

(p. 532)	
JAPAN 1005 (p. 532)	Chinese Calligraphy and Writing in East Asia
JAPAN 1199 (p. 532)	Special Topics: Language Immersion: Japanese
JAPAN 2150 (p. 532)	Classical Japanese Literature In Translation
JAPAN 2190 (p. 532)	Special Readings
JAPAN 2199 (p. 532)	Special Topic s: Language Immersion: Japanese
JAPAN 3201 (p. 532)	Intermediate Japanese III
JAPAN 3202 (p. 532)	Intermediate Japanese IV
JAPAN 3290 (p. 532)	Special Readings
JAPAN 4390 (p. 532)	Special Readings

Area 6: History

HIST 3031 HIST 3032 **HIST 3033**

Area 7: Music

MHLT 1090 Non-Western Music I (p. 532)

Area 8: Philosophy

PHIL 1120 (p. Asian Philosophy 532)

Area 9: Political Science

POL SCI 2550 East Asian Politics (p. 532)

Area 10: Social Work

SOC WK 2330 Asians In Migration (p. 532)

Independent Study Course

Students seeking the certificate must complete an independent study course in which a research paper will be written focusing upon some aspect of East Asian Studies. The topic should be approved in advance by International Studies and Programs.

Total Hours 38

FRENCH 4360 Studies in Nineteenth-Century French Literature

and Culture

(p. 532)

	ropean Studies Certificate		FRENCH 4375 Modern French Theatre (p. 532)
Four semesters of college work or the equivalent in a modern 20			German
European foreign HIST 1032 (p.	Topics In European Civilization: 1715 To The	3	GERMAN 2180 Intermediate Readings In German (p. 532)
532) Present			GERMAN 3201 Introduction to German Literature
	e each from at least four of the following areas: 1	12	(p. 532)
Anthropology			GERMAN 3210 German Culture And Civilization
(p. 532)	2 Anthropological Perspecitves on Western Culture		(p. 532)
Art and Art Histo	nrv		GERMAN 3211 Topics in German Culture (p. 532)
	Nineteenth Century European Art		GERMAN 3281 German Literature and Culture II: Romanticism -
(p. 532)			(p. 532) Present
ART HS 2255 (p. 532)	Modern Art		GERMAN 4311 Special Topics In German Culture (p. 532)
ART HS 4445 (p. 532)	Topics In 17Th And 18Th Century European Art		GERMAN 4398 Survey Of German Literature Part II (p. 532)
ART HS 4455 (p. 532)	Topics In Modern Art		Modern Greek
Business Admin	istration		GRK MOD 215(Modern Greek Literature In Translation (p. 532)
MKTG 3787	Marketing in the European Union		GRK MOD 2190Special Readings
(p. 532)			(p. 532)
English			Spanish
ENGL 2280 (p. 532)	Contemporary World Literature		SPANISH 4310 Spanish Literature From 1898 To 1939 (p. 532)
ENGL 2320 (p. 532)	English Literature After 1790		SPANISH 4311 Special Topics In Hispanic Culture (p. 532)
ENGL 4450 (p. 532)	The Eighteenth-Century English Novel		SPANISH 4315 Spanish Literature From 1939 To The Present (p. 532)
ENGL 4540 (p. 532)	The Nineteenth-Century English Novel		SPANISH 4325 Poetry And Drama Of The Golden Age (p. 532)
	Literature Of The Late Nineteenth And Early	N	Music
532)	Twentieth Centuries		M H L T 4240 Music Of The Classic Period
532)	Modern British Fiction		(p. 532) MHLT 4250 Music Of The Romantic Period
,	Major Works Of European Fiction		(p. 532)
532)		F	Philosophy
History			PHIL 1111 (p. Western Philosophy II: Descartes To The Present
532)	Europe in the Eighteenth Century:From the Glorious Revolution to the Napoleonic Era		532) PHIL 3303 (p. Early Modern Philosophy
HIST 2091 (p. 532)	Europe in the Nineteenth Century: From Waterloo to World War I		532) PHIL 3304 (p. Kant And Nineteenth Century Philosophy
HIST 3092 (p. 532)	Europe, 1900-1950: War And Upheaval		532) PHIL 3305 (p. Twentieth Century Philosophy
HIST 3093 (p. 532)	Europe, 1950-Present: Peace And Prosperity		532) PHIL 3369 (p. The Marxist Heritage
,	ges and Literatures		532)
French		F	Political Science
FRENCH 3211 (p. 532)	Contemporary French Culture		POL SCI 2510 The Politics of European Union (p. 532)
	French Literature and Culture After 1800		POL SCI 3595 Studies In Comparative Politics (p. 532)
., ,	Studies in Eighteenth-Century French Literature and Culture		POL SCI 3890 Studies In International Relations * (p. 532)
=======================================			" ,

POL SCI 4510 Comparative Public Policy And Administration *

(p. 532)

18

6

Independent Study Course

Students seeking the certificate must complete an independent study course in which a research paper will be written focusing upon aspect of Modern European Studies. The topics should be approved in advance by International Studies and Programs.

Total Hours 38

Students should consult International Studies and Programs advisers to determine how these courses can best be arranged to meet their interests.

Greek Studies Certificate

Greek Language Select at least three courses from the following: 9 **Ancient Greek** GRK ANC 1001Ancient Greek I (p. 532) GRK ANC 1002Ancient Greek II (p. 532) GRK ANC 2101Intermediate Ancient Greek Language And Culture (p. 532) GRK ANC 2151Greek And Latin In English Today (p. 532) GRK ANC 2152A Brief Introduction to Greek and Latin in English (p. 532) Modern Greek GRK MOD 100 Modern Greek I (p. 532) GRK MOD 1002Modern Greek II (p. 532) GRK MOD 210 Intermediate Modern Greek Language And Culture GRK MOD 2102ntermediate Modern Greek Language And Culture (p. 532) GRK MOD 215(Modern Greek Literature In Translation

Select at least three courses from the following:

ANTHRO 1037 The Wonders of Greece: Introduction to Greek

(p. 532) History and Culture

GRK MOD 2190Special Readings

ANTHRO 1052 The Olympic Games: Ideals And Reality

(p. 532)

ANTHRO 2035 Ancient Greek Civilization And Culture (p. 532)

ANTHRO/ Greek History And Culture HIST 2117 (p.

532)

(p. 532)

(p. 532)

ANTHRO 2192 Anthropological Perspecitves on Western Culture (p. 532) (only when appropriate)

ANTHRO 3225 Ritual, Death And Sports: Archaeology Of Greek

(p. 532) Mythology

ANTHRO 4309 Archaeological Field School (only when

(p. 532) appropriate) ANTHRO 4350 Special Study

(p. 532)

ART HS 2211 Art And Archaeology Of The Ancient World (p. 532)

ART HS 2212 Greek Art And Archaeology

(p. 532)

3

ART HS 3390 Special Study (only when appropriate)

(p. 532)

ART HS 4411 Topics In Ancient Art And Archaeology (only when

(p. 532) appropriate)

ART HS 4490 Special Study (only when appropriate)

(p. 532)

HIST 1030 (p. The Ancient Empires of the Mediterranean

532)

HIST/ Greek History And Culture

ANTHRO 2117/

GRK MOD 2150

(p. 532)

GRK MOD 215(Modern Greek Literature In Translation

(p. 532)

GRK MOD 2190 Special Readings 1

(p. 532)

M H L T 4270 A History Of Byzantine Music And Hymnography

(p. 532)

PHIL 3301 (p. Ancient Philosophy

532)

PHIL 4401 (p. Plato

532)

PHIL 4402 (p. Aristotle

532) Total Hours

Note: GRK MOD courses will count for either the language requirement or the focus area requirement but not for both.

International Business Certificate

Students must complete a minimum of 12 credit hours in some 12 approved overseas study program focusing on international business which is approved by the College of Business Administration.

Select one course from Area 1 and one from Area 2:

Area 1: Business Administration

INTL BUS 3280The Law Of International Business Transactions (p. 532)

INTL BUS/ International Corporate Finance

INTL BUS/ FINANCE

3580 (p.

532)

INTL BUS 3281Business In China

(p. 532)

INTL BUS/ International Investments

FINANCE 3582 (p.

532)

INTL BUS/ International Management

MGMT 3680

(p. 532)

INTL BUS 3282Managing The Global Workforce

(p. 532)

¹ In lieu of a cou	rse from Area 2, students may substitute one cours	e (3	GEOG 1002 (p. 532)	World Regions
Total Hours		18	Area 6: Geogra	phy
532) An independent st	udy course is not required for this certificate option.		ECON 3300 (p. 532)	International Economic Analysis
	Sociology Of Business And Work Settings		Area 5: Econon	
SOC 1241 (p. 532)	Globalization and Social Change		COMM 3332 (p. 532)	Intercultural Communication
(p. 532)	International Organizations And Global Problem- Solving		Area 4: Commu	unication
(p. 532)	International Political Economy		(p. 532) MKTG 3787 (p. 532)	Marketing in the European Union
ECON 3320 (p. 532)	Economic Development		(p. 532) MKTG 3780	International Marketing
ECON 3300 (p. 532)	International Economic Analysis			89International Stretegic Manageme
ANTHRO 2124 (p. 532)	Cultures Of Africa		(p. 532) INTL BUS 32	83International Business And Societ
, ,	Cultures Of The Near And Middle East		(p. 532) MGMT 3685	Role Of The Global Corporation
	Cultures Of East Asia		(p. 532)	84The Japanese Management Syste
(p. 532) Area 2: Internation	nnal Studies ¹		MGMT 3680 (p. 532) INTL BUS 32	International Management 82Managing The Global Workforce
(p. 532) INTL BUS/ MKTG 3787	Marketing in the European Union		(p. 532)	11 International Logistics And Opera Management
INTL BUS/ MKTG 3780	International Marketing		(p. 532)	82 International Investments
INTL BUS 4289 (p. 532)	International Stretegic Management		INTL BUS 32 (p. 532)	81Business In China
INTL BUS 3282 (p. 532)	Managing The Global Workforce		FINANCE 358 (p. 532)	80 International Corporate Finance
MGMT 3685 (p. 532)	Role Of The Global Corporation		INTL BUS 32 (p. 532)	80The Law Of International Busines
(p. 532)	The Japanese Management System		(p. 532)	99Independent Study In Internationa

credit hours) at the advanced level of a foreign language. Advanced level is defined as a course beyond the 13 credit hour introductory language sequence.

International Affairs Certificate

Satisfactory completion of the language requirements for the degree program in which a student is enrolled.

POL SCI 1800 (p. World Politics 3 532)

Select four courses from at least three of the following eleven areas: 12

Area 1: Anthropology

ANTHRO 3236 Sex Trafficking in Cross-Cultural Perspective (p. 532)

Area 2: Biology

BIOL 1202 (p. Environmental Biology 532)

BIOL 3202 (p. Conservation Biology 532)

Area 3: Business Administration

dent Study In International Business Of International Business Transactions onal Corporate Finance s In China onal Investments onal Logistics And Operations ment onal Management g The Global Workforce anese Management System The Global Corporation onal Business And Society onal Stretegic Management

Area 7: History

HIST 2024 (p. US Foreign Relations and Military History Since 532) 1900

HIST 3033

HIST 2064 (p. African Diaspora in the Age of Migration

HIST 2091 (p. Europe in the Nineteenth Century: From Waterloo to World War I 532)

HIST 3092 (p. Europe, 1900-1950: War And Upheaval 532)

HIST 3093 (p. Europe, 1950-Present: Peace And Prosperity 532)

Area 8: Media Studies

MEDIA ST 250(Introduction To Comparative International Media Systems (p. 532)

MEDIA ST 3356Global Media Systems And Trends (p. 532)

Area 9: Political Science

POL SCI 1820			
(p. 532)	Global Issues		POL SCI 2530 Political Systems Of Soc (p. 532)
POL SCI 2510 The Politics of European Union (p. 532)			POL SCI 2540 Political Systems Of Me (p. 532) The Caribbean
POL SCI 2520 (p. 532)	Middle Eastern Politics		POL SCI 3595 Studies In Comparative (p. 532)
POL SCI 2820	United States Foreign Policy		Area 4: Spanish
(p. 532)			SPANISH 3211 Hispanic Culture And Ci
POL SCI 3830 (p. 532)	International Political Economy		(p. 532)
, ,	International Organizations And Global Problem-		SPANISH 3281 Introduction To Hispanic (p. 532) America
(p. 532)	Solving		SPANISH 4345 Spanish American Litera
POL SCI 3860 (p. 532)	Studies In War And Peace		(p. 532) Century SPANISH 4351 Spanish American Fiction
., ,	Studies In International Relations		(p. 532)
(p. 532)			Independent Study Course
POL SCI 4850	International Law		Students seeking the certificate must comp
(p. 532)			course in which a research paper will be w
Area 10: Social \			aspect of Latin American Studies. The topi
	Asians In Migration		advance by International Studies and Prog
(p. 532)	env.		Total Hours
Area 11: Sociolo SOC 1241 (p.		3	
532)	Globalization and Social Change	3	Graduate Certificate in In
SOC 4354 (p.	Sociology Of Business And Work Settings		Studies
532)	ult. Oasses		A Graduate Certificate in International Stud
Independent Stu			featuring advanced multidisciplinary course
Ctudonto cookina	the contificate much complete an independent	2	
•	the certificate must complete an independent high a research paper will be written focusing upon	3	including teachers and other professionals,
study course in w	the certificate must complete an independent hich a research paper will be written focusing upon ternational affairs. The topic should be approved in	3	knowledge and understanding of internation
study course in w some aspect of in	hich a research paper will be written focusing upon	3	
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study course in w some aspect of in advance by Interr Total Hours Latin Amer Thirteen credit ho Select one of the HIST 1051 (p. 532) HIST 1052 (p. 532) SPANISH 321 (p. 532) Select three cours Area 1: Anthrope ANTHRO 2132 (p. 532) Area 2: History HIST 1052 (p. 532) HIST 3051 (p. 532)	hich a research paper will be written focusing upon ternational affairs. The topic should be approved in national Studies and Programs. ican Studies Certificate urs or the equivalent in Spanish. following: Latin American Civilization Mexican Civilization 1 Hispanic Culture And Civilization: Spanish America ses from at least three of the following areas: plogy 1 Archaeology Of The Inca, Aztec, And Maya Mexican Civilization	21 13 3	knowledge and understanding of internation. The Certificate is sponsored by the Office of Programs and the Departments of Economiand Literatures, and Political Science. A brown available in these and other departments, we to tailor the program to their particular internations been developed as a vehicle for bringing of a distinguished faculty in international stropportunity for further graduate learning. Approgram must meet the general requirement School as explained in the graduate study of Certificate is awarded after completion of 1 of 12 hours drawn from a list of core course selected from a wide variety of offerings in No more than 12 hours may be from any of simultaneously earn a graduate degree and degree program toward the Certificate whee Requirements Select three from the following list of core of Business Administration FINANCE 6580 International Financial Management ACCTNG 5480 International Accounting
study course in w some aspect of in advance by Interr Total Hours Latin Amer Thirteen credit horogenetic Select one of the HIST 1051 (p. 532) HIST 1052 (p. 532) SPANISH 321 (p. 532) Select three course Area 1: Anthrope ANTHRO 2134 (p. 532) Area 2: History HIST 1052 (p. 532) HIST 3051 (p. 532) HIST 3051 (p. 532) HIST 3051 (p. 532)	hich a research paper will be written focusing upon ternational affairs. The topic should be approved in national Studies and Programs. ican Studies Certificate urs or the equivalent in Spanish. following: Latin American Civilization Mexican Civilization 1 Hispanic Culture And Civilization: Spanish America ses from at least three of the following areas: blogy 4 Archaeology Of The Inca, Aztec, And Maya Mexican Civilization Latin America: From Conquest to Independence	21 13 3	knowledge and understanding of internation. The Certificate is sponsored by the Office of Programs and the Departments of Economiand Literatures, and Political Science. A brown available in these and other departments, we to tailor the program to their particular internation and developed as a vehicle for bringing of a distinguished faculty in international stropportunity for further graduate learning. Approgram must meet the general requiremer School as explained in the graduate study of Certificate is awarded after completion of 1 of 12 hours drawn from a list of core course selected from a wide variety of offerings in No more than 12 hours may be from any of simultaneously earn a graduate degree and degree program toward the Certificate whee Requirements Select three from the following list of core of Business Administration FINANCE 6580 International Financial M (p. 532) LOG OM 5381 International Logistics A (p. 532) Management

Area 3: Political Science

ıth America

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Politics

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Literature: Spanish

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n In The Twentieth Century

lete an independent study itten focusing upon some should be approved in rams.

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ternational

ies is a program of study work designed for individuals, who wish to expand their nal and cross-cultural affairs. f International Studies and ics, History, Foreign Languages oad set of course offerings is vith the flexibility for students ests and needs. The program ng together the resources udies and for providing an oplicants to the Certificate nts for admission to Graduate section of this Bulletin. The 8 hours, including a minimum es and an additional six hours eight different disciplines. ne discipline. Students may count credits earned in their n appropriate.

courses:

12

1anagement

nd Operations

	ECON 5300 (p. 532)	International Trade	
	ECON 5301 (p. 532)	International Monetary Analysis	
	History		
	HIST 6112 (p. 532)	Readings In European History Since 1715	
	HIST 6113 (p. 532)	Readings In East Asian History	
	HIST 6114 (p. 532)	Readings In Latin American History	
	HIST 6115		
	Political Science	е	
	POL SCI 6450 (p. 532)	Proseminar In Comparative Politics	
	POL SCI 6451 (p. 532)	Seminar In Comparative Politics	
	POL SCI 6480 (p. 532)	Proseminar In International Relations	
	POL SCI 6481 (p. 532)	Seminar In International Relations	
	POL SCI 6488 (p. 532)	Studies In International Relations	
	Sociology		
Se	elect two of the f	ollowing:	6
	Economics		
	ECON 3300 (p. 532)	International Economic Analysis	
	ECON 4980 (p. 532)	Special Readings	
	English		
	ENGL 4920 (p. 532)	Major Works Of European Fiction	
	History		
	HIST 4001 (p. 532)	Special Readings	
	Foreign Langua	ages and Literature	
	FRENCH 4360 (p. 532)	Studies in Nineteenth-Century French Literature and Culture	
	FRENCH 4375 (p. 532)	Modern French Theatre	
	SPANISH 4310	Spanish Literature From 1898 To 1939	
	(p. 532)		
	(p. 532)	Spanish Literature From 1939 To The Present	
	(p. 532) SPANISH 4315 (p. 532)		
	(p. 532) SPANISH 4315 (p. 532) SPANISH 4345 (p. 532)	Spanish Literature From 1939 To The Present Spanish American Literature Of The Twentieth	
	(p. 532) SPANISH 4315 (p. 532) SPANISH 4345 (p. 532) SPANISH 4351	Spanish Literature From 1939 To The Present Spanish American Literature Of The Twentieth Century	
	(p. 532) SPANISH 4315 (p. 532) SPANISH 4345 (p. 532) SPANISH 4351 (p. 532) Music	Spanish Literature From 1939 To The Present Spanish American Literature Of The Twentieth Century	

M H L T 4260 Music from 1900 to the Present

(p. 532)

Political Science

	POL SCI 4510 (p. 532)	Comparative Public Policy And Administration	
	POL SCI 4850 (p. 532)	International Law	
	POL SCI 6485 (p. 532)	Directed Readings And Research In International Relations	
7	Fotal Hours		18

Note: Students may not count both FINANCE 6580 (p. 532) and FINANCE 3580 (p. 532). No more than 12 credit hours may be from any one discipline.

Study Abroad Programs

The University of MissouriSt. Louis is committed to broadening students' understanding of different cultures and preparing them for the global community in which we live. One of the most successful ways of achieving this global mindset is to study overseas. The opportunity to live and study in a different culture is an enriching experience, both academically and personally.

The Office of Study Abroad (http://www.umsl.edu/services/abroad) in the Office of International Studies and Programs (ISP) provides UMSL students with opportunities to study at over 80 different universities in more than 30 countries around the globe. Most programs run for an academic year, semester, or summer. Two to three week-long faculty-led programs are offered during the winter intersession and summer. Through individual advising at ISP's Study Abroad Office, students can find the program best suited to their personal, academic, and career goals. Internship possibilities are also available for qualified students.

Fees and Financial Aid

The cost of the program depends on the services provided and the country and city of study. For most programs, participants continue to pay UMSL fees plus airfare, room and board, and spending money. Students are usually housed in dormitories or are assisted in finding apartments. In most cases, students are able to use their UMSL financial aid toward a study abroad program. Study abroad scholarships are available for qualified applicants through ISP.

Application

Generally, applications are due in mid-February for summer, fall and academic year programs, and mid September for winter intersession and spring semester programs. Students should plan to spend at least one or two months researching a program before applying.

Participant selection is based on academic achievement, faculty recommendations, approval of the proposed course of study via the department/divisional advisory process, and for some programs, proficiency in the foreign language of instruction. Most programs are designed for undergraduate students in their junior or senior years of study; however, a limited number of programs for freshmen, sophomores, and graduate students are available.

Student Teaching Abroad

Teacher Education students may be able to student teach in Fuxin, China during the spring semester. In addition to meeting the other requirements for student teaching, students complete an application form for the site.

Foreign Language-Other Courses

FGN LANG 1005 Chinese Calligraphy and Writing in East Asia: 1 semester hour

FGN LANG 2100 Languages and World View: 3 semester hours
SAME AS ANTHRO 2100 and SOC 2200. Prerequisites: Completion
of two semesters of one foreign language at the college level. This
course investigates the extent to which peoples' linguistic and cultural
background informs their understanding of the world. Experts on a variety
of major Western and non-Western languages will introduce students to
differences in ideas about time, space, human relationships, and other
issues based on language. The course will also analyze common cultural
misunderstandings among native speakers of English and speakers of
other languages.

FGN LANG 2192 Service Learning In Foreign Languages: 1-3 semester hours

Prerequisites: Permission of course instructor and concurrent enrollment in a Foreign Language course (Arabic, Chinese, English as a Second Language, French, German, Greek, Japanese, Latin or Spanish) at the 2000-level or higher. Taken concurrently with a qualifying foreign language course, students will participate in a community service experience that is academically integrated into the students' course of study. Community service in a local or international community organization, as approved by the course instructor, is required. Determination of the type of community service to be conducted and the number of hours required will be made in consultation with the instructor. May be repeated for a maximum of 6 credit hours.

FGN LANG 4307 Community Based Research: 3 semester hours

FGN LANG 4589 Curriculum and Methods of Teaching Foreign Language: 3 semester hours

Same as SEC ED 4589. Prerequisites: TCH ED 3310 or TCH ED 5310 and passing the departmental language skills test. A study of the scope and sequence of the foreign language courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of foreign language. To be taken prior to student teaching. This course must be completed in residence. Not available for graduate credit.

FGN LANG 4590 Foreign Language Teaching Seminar: 2 semester hours

Same as SEC ED 4590. Prerequisites: Concurrent enrollment in SEC ED 4990 or consent of instructor. A practicum course in the teaching of foreign languages. Review and explanation of drills, dialogues, and a variety of classroom techniques, oral and written. A continuation of FGN LANG 4589 / SEC ED 4589, Curriculum and Methods, with an emphasis on specific practical skills. To be taken concurrently with SEC ED 4990, Student Teaching. Not available for graduate credit.

FGN LANG 5311 Special Topics In Foreign Language Teaching: 3 semester hours

Prerequisite: Consent of the Instructor. Designed for in-service foreign language teachers, this course focuses on the study of special topics in the field of foreign language learning with an emphasis on research applications to the improvement of practice. Topics may include technology for FL learning, the teaching of writing in the FL classroom, the teaching of reading in the FL classroom, proficiency-oriented instruction and assessment, second language acquisition for FL teachers, action research in the FL classroom. May be repeated for credit provided the topic is different. May be applied toward the Master's in Secondary Education with an emphasis in FL teaching.

FGN LANG 5399 Standards-Based Foreign Language Instruction: 3 semester hours

Prerequisites: Teacher certification and one year teaching experience. Designed to provide in-service foreign language teachers with the knowledge and skills to design instructional units that reflect the profession's standards for foreign language learning.

History Courses

HIST 1000 Selected Topics In History: 1-3 semester hours

Prerequisite: Consent of Instructor Special topics in history. May be repeated for credit with consent of instructor.

HIST 1001 American Civilization To 1865: 3 semester hours

Evolution of the cultural tradition of the Americas from the earliest times to the mid-nineteenth century, with emphasis on the relationship of ideas and institutions to the historical background. Course fulfills the state requirement.

HIST 1002 American Civilization 1865 To Present: 3 semester hours Continuation of ECON 1001 to the present. Course fulfills the state requirement. Either ECON 1001 or ECON 1002 taken separately.

HIST 1003 African-American History: 3 semester hours

A survey of African-American history from the beginning of the European slave trade to the modern Civil Rights era. This course meets the state requirement.

HIST 1004 The History Of Women In The United States: 3 semester hours

Same as GS 1004. A survey of women's history from the colonial era to the present.

HIST 1030 The Ancient Empires of the Mediterranean: 3 semester hours

Survey of ancient history in the near east, the Aegean, the central and western Mediterranean. Themes: politics and economy, war and society, culture, including art, literature, technology, religion and philosophy. The chronological span is from the neolithic period (7500-3000 B.C.) in the near east to the fall of the Roman Empire in the fifth century A.D.

HIST 1031 Topics European Civilization: Emergence Of Western Europe To 1715: 3 semester hours

Lectures and discussions on the development of western European society and tradition from approximately 1000 to 1715.

HIST 1032 Topics In European Civilization: 1715 To The Present: 3 semester hours

Lectures and discussions on the development of western European society and tradition from 1715 to the present.

HIST 1037 The Wonders of Greece: Introduction to Greek History and Culture: 3 semester hours

SAME AS ANTHRO 1037. Our democracy and culture have been heavily influenced by Greek civilization. This course will introduce students to the culture and civilization of Greece in order to provide a better understanding of our own society. The course will cover the political and military history, art, literature, philosophy, and science of Greece from prehistoric to modern times, with special emphasis on Greek civilization's enduring democratic and cultural ideals. The course will include screening of films and use of online resources.

HIST 1038 Byzantine History and Culture: 3 semester hours

Same as ANTHRO 1038. This course introduces the history of the Byzantine Empire from the fourth through the fifteen centuries. Covering more than a millennium of history, this course focuses on selected aspects of the empire's history, while adhering to a basic chronological frame. We will examine religious developments (monasticism, theological controversy, the Catholic-Orthodox Schism); military and cultural interactions with neighbors (Crusaders, Islam); and Byzantine culture, particularly art, literature, and architecture.

HIST 1041 East Asian Civilization: 3 semester hours

The development of Asian civilization from earliest times to the Manchu conquest.

HIST 1042 East Asian Civilization: 3 semester hours

Continuation of HIST 1041 with emphasis on the Asian response to the Western incursion. Either HIST 1041 or HIST 1042 may be taken separately.

HIST 1051 Latin American Civilization: 3 semester hours

A survey of selected topics important in the development of Latin America from pre-Columbian times to the twentieth century.

HIST 1052 Mexican Civilization: 3 semester hours

This course will focus on the history and culture of Mexico from the Aztecs to the mid-twentieth century. Among the topics to be covered are: the Aztecs, Cortez and the Conquest of Mexico, colonial institutions and culture, the obtaining of political independence, disorder and dictatorship in the nineteenth century, the Mexican Revolution, contemporary Mexico. This course meets the non-Euro-American requirement.

HIST 1061 African Civilization: From The Beginning of Humanity to The End of The Slave Trade: 3 semester hours

Introduction to cultural history from the emergence of early humankind to the abolition of the Atlantic slave trade. This course fulfills the Cultural Diversity requirement.

HIST 1062 African Civilization II: From Colonies to Nations: 3 semester hours

Survey of African initiative and response in the period spanning the loss and reassertion of independence. Either HIST 1061 or HIST 1062 may be taken separately.

HIST 1075 World History to 1500: 3 semester hours

A survey of the history of humankind to 1500 including the beginnings of civilization Mesopotamia, Africa, Asia and the Americas, the rise of Classical civilizations and the development of major transnational social, economic, political and religious networks.

HIST 1076 World History Since 1500: 3 semester hours

A survey of the history of humankind since 1500, emphasizing the growing interdependency of regional economic, political, and social systems. Topics will include imperialism, industrialization, and globalization.

HIST 1111 Reacting to the Past: 4 semester hours

Reacting to the Past is a series of historical simulations built around key moments and texts from the past. In each simulation, students are assigned a role and develop that character. The course offers students a rigorous academic experience in which they conduct historical research, speak, and write extensively. Because this course requires extensive writing, it fulfills the requirement for Freshman Composition.

HIST 1175 Arts And Ideas: 3 semester hours

Same as ART HS 1175, ENGL 1175, M H L T 1175, PHIL 1175, TH DAN 1175. An interdisciplinary course tied to the semester's offerings at the Blanche Touhill Performing Arts Center as well as other events on campus featuring the visual arts, literature, music, and film. Each semester the course will provide background on the arts in general and will critically examine particular performances and offerings. Special themes for each semester will be selected once the Touhill schedule is in place. Students will be expected to attend 6-8 performances or exhibitions. Can be repeated once for credit.

HIST 1776 History of American Leadership: 3 semester hours

An introduction to the study of leaders in America that will cover different categories of political, cultural, social, and intellectual leadership and achievement. Crucial to the understanding of these categories is the question: how did leaders find their gift in becoming who they were and what leadership traits can be identified in the different categories under scrutiny.

HIST 1999 Big History: From the Big Bang to the Blackberry: 3-6 semester hours

SAME AS INTDSC 1999. An introduction to the humanities, social science, and science disciplines through a sweeping overview of natural and human history from the Big Bang to the present. Course will include lectures from faculty in various Arts and Sciences units, films, field trips, and group discussions.

HIST 2000 Selected Topics In History: 1-4 semester hours

Prerequisite: consent of instructor Special topics in history. The course may be repeated for credit with consent of the instructor.

HIST 2001 Creating Early America: European Empires, Colonial Cultures, and Native Nations, 1565-1776: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. This contentrich course explores the transatlantic migrations and Indian interactions that laid the foundations of the American nation before 1776.

HIST 2003 United States History: From Nation to Civil War: 3 semester hours

Prerequisite: Soph standing or consent of the instructor. The "Era of Good Feelings"; the Age of Jackson; manifest destiny; the political and social developments of the antebellum period relating to the growth of sectionalism and the developing antislavery crusade.

HIST 2004 United States History: The Civil War Era, 1860-1900: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor The Civil War, Reconstruction, industrial and urban expansion and their impact on American life.

HIST 2005 The Modernization Of The United States: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor Studies in the economic, political and social development and crises of the maturing industrial United States between 1877 and 1940, and the growing importance of foreign relations.

HIST 2006 Recent United States History: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. The economic, political and social developments and crises of post-industrial United States. The role of foreign affairs in American life.

HIST 2007 History Of Missouri: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Lecture and readings. Seventeenth-century Spanish and French explorations and interaction with the Indians; settlement and organization of the Louisiana territory; lead mining and the fur trade; the Louisiana Purchase; the Missouri territory; the struggle for statehood and slavery; antebellum politics; banking and internal improvements; westward expansion; Civil War and reconstruction; postwar agrarian politics, industrialization; Irish, German, and southern European immigration; the Progressive reforms-Political and economic changes; and twentieth-century social changes and political developments. Course satisfies the state requirement.

HIST 2008 History Of St. Louis: 3 semester hours

Prerequisites: Sophomore standing or the consent of the instructor This course will provide an overview of the history of the St. Louis metropolitan region from its founding in 1764 to the present. Main topics will include: the St. Louis region before the Europeans, forces leading to the founding of the city, St. Louis as an "urban frontier", the Age of Steam on water and rail, the questions of slavery and the Civil War, St. Louis in the Gilded Age, the World's Fair, early efforts at city planning, impact of the automobile, St. Louis during the Depression and World War II, post-war suburbanization, urbal renewal St. Louis style, school desegregation, the Schoemehl years, the emergence of St. Louis "Edge Cities", and St. Louis 2004.

HIST 2009 St. Louis And The West: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. An examination of the role St. Louis played in the evolution of the North American West, both in the United States and Canada, from the fur trade of the late eighteenth century to the opening of the Texas oil fields in the early twentieth century. Special emphasis will be given to competition between river and rail transportation corridors, and hence to the rivalry that developed between St. Louis and Chicago.

HIST 2010 From Sea to Shining Sea: The American Frontier 1763 - 1890: 3 semester hours

This is a history of the colonization of the Great West, from the end of the French and Indian War to the official closing of the frontier in 1890. The westward movement will be examined as a major factor in explaining American development.

HIST 2011 American West: The Truth Behind the Hollywood Myths: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor An exploration of the history of the American West from the 1750s to present, with emphasis on the role of transportation. Urban gateways such as St. Louis and San Francisco and transportation corridors such as the Missouri River and the Santa Fe and Oregon trails will be of particular importance.

HIST 2012 The Indian In American History: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Investigates Native American encounters with non-Indian peoples between 1600 and 1900, analyzing how traditional Indian cultures changed to meet a variety of new challenges introduced to North America by Europeans and Africans. The approach will be interdisciplinary and ethnohistorical with emphasis placed on case studies of important native nations at key turning points in their history.

HIST 2013 The Rise and Fall of American Cities: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. The physical and spatial growth of U.S. cities from colonial times to the present with special attention to the impact of industrialization, public policy, and advances in transportation technology.

HIST 2015 Topics In African-American History: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Will explore a salient topic in African-American history. Such historical documents as personal narratives, letters, government documents, and autobiographies as well as monographs, articles, and other secondary sources will be used to explore topics such as slavery and slave culture in the United States; blacks and America's wars; the African-American intellectual tradition; or, African-Americans and the Great Migration.

HIST 2016 African-American History: From Slavery to Civil Rights: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor: This course examines the impact of region, gender, and class on black activism by focusing on topics such as remembering slavery and emancipation, institution and community building during segregation, changing strategies in politics and protest, and the emergence of the direct action civil rights movement.

HIST 2017 African-American History: From Civil Rights To Black Power: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. A seminar on the activities, ideas, movement centers, and personalities that created the Civil Rights and Black Power movements in the U.S. from the 1950's through the 1970's. Some familiarity with the broad contours of U.S. History is presupposed. Special attention will be devoted to the roles of the African-American masses, college students, and women, and to the points of conflict, cooperation, and intersection between African-America and the larger American society.

HIST 2018 The Vietnam War: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. This course will examine the events leading up to the Vietnam War, the military aspects of the conflict, and public reaction.

HIST 2020 History of Women and Social Movements: 3 semester hours

Same as GS 2020. Prerequisites: Sophomore standing or consent of the instructor. This course explores the history of women and social movements in the nineteenth and twentieth century United States. It considers social and political movements such as abolitionism, women's suffrage, progressivism, the labor movement, the civil rights movement, and second wave feminism.

HIST 2022 The Automobile and American Life: 3 semester hours

This course uses the automobile as a window into 20th-century American life. It examines the influence of automobility on patterns of work and leisure; on struggles over gender, race and ethnicity; on individualism, consumerism, and government regulation. It also surveys mass automobility's effects on our physical and natural environments and looks at future prospects of automobility in the information age.

HIST 2023 US Foreign Relations and Military History To 1900: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructorBulletin description: A survey of American foreign and military affairs to 1900, with particular emphasis on European conflicts, national expansion, Indian Wars, and the Mexican War.

HIST 2024 US Foreign Relations and Military History Since 1900: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. A survey of American foreign and military affairs since 1900, with particular emphasis on the major wars during the period and the cold war era. Consideration of the nation's changing place in a changing world.

HIST 2025 Topics in Military History: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. This course will examine a prominent military engagement in the past and consider strategic, diplomatic, and broad cultural aspects of the event. The particular military engagement investigated will vary from one semester to another. May be repeated if topics differ.

HIST 2028 Sex, Drugs, and Rock 'n Roll: The 1960s in Song, Fashion, Dating, and Protest: 3 semester hours

HIST 2052 History Of Latin America Since 1808: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. Emphasis on the attainment of political independence and social, political, and economic developments of the nineteenth and twentieth centuries in Latin America. This course satisfies the cultural diversity requirement.

HIST 2053 Modern Mexico: 3 semester hours

Mexico from the Revolution to the present, covering major political, social, and cultural developments of the twentieth century including foreign population migration, the student movement of the 1960s, the rise and fall of the PRI, and the impacts of globalization.

HIST 2063 African Diaspora To Abolition of the Slave Trade: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Comparative in scope, the course examines major themes in West and Central Africa and their impact on the history of Africans in the Atlantic diaspora up to 1800. Themes include: slavery, multi-racialism, economics of the South Atlantic system, political dimensions and the social transformation from heterogeneous crowds to new and homogeneous communities. Linkages between Africans and their descendants in the Atlantic communities of Latin America, the Caribbean, as well as North America will be stressed. This course fulfills the Cultural Diversity requirement.

HIST 2064 African Diaspora in the Age of Migration: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. Comparative in scope, this course uses a comparative methodology to examine the major themes in West and Central Africa and their impact on the history of Africans in the Atlantic diaspora after 1800. This course fulfills the Cultural Diversity requirement.

HIST 2081 Rome: The Republic And Empire: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. A survey of the development of Roman political and cultural life from the Legendary founding of the city in central Italy in 753 BC to the death of the Emperor Justinian in 565 AD.

HIST 2082 Christianity: From Jesus to Martin Luther: 3 semester hours

The purpose of this course is to orient students in the scholarship about the Christian Church in the Western tradition as an institution. Open discussion is encouraged, and all traditions will be respected in the interest of expanding our knowledge of the past as well of as the living communities today.

HIST 2083 Europe In Early Middle Ages: Paganism to Christianity: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. The end of the Roman Empire as a universal entity; the successor states of the Mediterranean and Northern Europe; the emergence of a Western Christendom under the Franks; the development of feudal states; the Gregorian reforms; the Crusades; the revival of education and learning in the twelfth century.

HIST 2084 Crusades and Plagues: Europe In The High And Late Middle Ages: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. Medieval society at its political, economic, and intellectual zenith; the crisis of the later Middle Ages; the Papal schism and the development of national particular churches within Catholicism; and the rise of estate institutions.

HIST 2085 Medieval England: From Arthur to Richard III: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. A brief summary of the Anglo-Saxon heritage and the impact of the Norman Conquest, followed by an investigation of the institutional, social, and legal evolution of the realm of England. English development will be viewed in its European context.

HIST 2086 Reformation of Europe: Beyond Religion: 3 semester hours

Prerequisite: Sophomore standing or consent of the instructor. Religious, intellectual, political, and socioeconomic developments of the sixteenth century.

HIST 2088 Europe and the Renaissance: Not Just for Painters Anymore: 3 semester hours

Prerequisites: Sophomore Standing or consent of the instructor. The Italian and Northern Renaissance as a distinct age; political, socioeconomic, intellectual, religious, and artistic movements attending the decline of medieval society, and the transition to the early modern period.

HIST 2089 Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West: 3 semester hours

Sophomore standing or consent of instructor. An examination of some of the most important ideas and debates that shaped the Western world. Topics include Platonic versus Aristotelian models of the universe, Medieval synthesis and the challenge of Renaissance naturalism, the Scientific Revolution, the political ideas of Thomas Hobbes, John Locke, and Jean-Jacques Rousseau, romanticism, Marxism, Darwinian evolution, Freudian psychology, existentialism, structuralism and poststructuralism.

HIST 2090 Europe in the Eighteenth Century:From the Glorious Revolution to the Napoleonic Era: 3 semester hours

Prerequisite: Sophomore standing or consent of instructor. This course offers intensive study of Europe in the period between the Glorious Revolution in England in 1688 and the fall of Napoleon in 1815. Particular emphasis will be placed on the theme of the rise of the modern. Specifically, the course will examine the struggle by intellectuals, politicians, and military figures to move Europe forward from the old regime system. Particular emphasis will be placed on the works of Voltaire, Rousseau, Locke, and Paine.

HIST 2091 Europe in the Nineteenth Century: From Waterloo to World War I: 3 semester hours

Prerequisites: Sophomore standing or Consent of Instructor. This course offers intensive study of Europe in the period between the fall of Napoleon in 1815 and the turn-of-twentieth century. Particular emphasis will be placed on the themes of industrialization, overseas colonization, and the development of nationalist, socialist, and liberal ideas.

HIST 2095 History of Ireland: 3 semester hours

This course will explore Irish history from medieval to modern times. Topics will include issues of land, settlement, immigration, and modernization.

HIST 2102 Introduction To Gender Studies: 3 semester hours

Same as GS 2102, SOC WK 2102, and SOC 2102. This core class is required for all Women's and Gender Studies Certificate earners. This class introduces students to cultural, political and historical issues that shape gender. Through a variety of disciplinary perspectives in the humanities, social sciences, and natural sciences, the course familiarizes students with diverse female and male experiences and gendered power relationships.

HIST 2105 Sex in America: 3 semester hours

Prerequisites: Sophomore Standing or consent of the instructor. Dissected, categorized, evaluated, feared, and enjoyed: sex in America's past, including our current obsession with it, is the primary concern of this course. Why and how have sex and sexuality become so central to identities, culture, politics, and now, our history? This course explores the complex and often hidden history of sex in the United States. It uses sex to examine big political ideas of citizenship, democracy, and cultural inclusion.

HIST 2116 History of Greece and The Balkans: 3 semester hours

Prerequisites: Sophomore standing or consent of the instructor. This course is designed to introduce students to the history of the Balkans with particular emphasis on Greece. Although a part of the course will deal with nation building and nationalism, we will also examine the broad historical trends that have shaped the distinct cultural, social, and political developments in the region from the late 18th century until the end of the 20th century.

HIST 2117 Greek History And Culture: 3 semester hours

Same as ANTHRO 2117. Greek civilization has had a deep impact on contemporary society in art; social, political, and economic organization; philosophy; law; medicine; and science. This course covers major aspects of Greek history and culture from antiquity to the present. It considers the major political and military events of Greek History, as well as important aspects of Greek culture, including sports and the history of the Olympic Games, literature, philosophy, and mythology.

HIST 2118 Modern Greek History and Culture: 3 semester hours

Same as ANTHRO 2118. A history of Modern Greece, from the fall of Constantinople (1453) to the present, with an emphasis on social, cultural, and political developments. The course will provide a chronological framework of events and it will utilize art, literature, and folklore, along with traditional historical sources, to gain a better understanding of the richness of modern Greek history and culture.

HIST 2219 United States Labor History: 3 semester hours

Examines the history of work and the working class in the United States. It focuses on the transformation of the workplace, the evolution of working class consciousness and the development of the labor movement, the role of race, gender and ethnicity in uniting or dividing the working class, and the nature of labor's relations with other social groups in the political arena. Particular emphasis on the political and economic conditions and strategies of periods when working class power was growing.

HIST 2770 Introduction To Transportation: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Introduction to Transportation provides an overview of the transportation sector, including history, providers, users, and government regulation. The importance and significance of transportation modes of rail, water, motor, air, and pipeline: the demand and supply of transportation, and the managerial aspects of these modes of transport will be covered in the course.

HIST 2772 History Of Aviation In American Life: 3 semester hours

Prerequisites: Sophmore standing or consent of instructor. Course focuses on the history of aviation in the United States from balloon flights preceding the Wright brothers through the terrorist attacks in September 2001 with emphasis upon how aviation and aviators have influenced American society and culture. Themes include the evolution of aviation technology, the growth of the commercial/military aviation/aerospace industries, issues of race and gender in aviation, the development of America's commercial airlines, aviation's influence upon American art, films, advertising, and literature, the significance of the space race, and the role of aerial weapons of war.

HIST 2773 Urbanization And Transportation: 3 semester hours

Prerequisites: Sophomore standing or consent of instructor. Course provides an overview of urbanization and transportation in the United States. Besides examining the history of urbanization and transportation, this course offers comparisons between contemporary international urban areas for the purpose of placing the US experience in context. Additionally, the course covers key issues surrounding the planning, development, and consequences of infrastructure facilitating the movement of people and freight in the urban setting, such as financing, transport technologies, political policies, economic growth, and demographic trends.

HIST 2800 History Of American Economic Development: 3 semester hours

Same as ECON 2800. Prerequisites: ECON 1000 or ECON 1001 or consent of instructor. Uses economic concepts to explain historical developments in the American economy, beginning with the hunter gatherers who crossed the Bering land bridge around 12,000 BC. Main topics include the Native American economies, European exploration and conquest, the colonial economies, indentured servitude, the American Revolution, the US Constitution, westward expansion, transportation, the Industrial Revolution, state banking and free banking, slavery, the Civil War, post-bellum agriculture, the rise of big business and antitrust, banking panics, the Federal Reserve Act, the First and Second World Wars, the New Deal, and the growth of government in postwar economy.

HIST 2999 Introduction to Historical Inquiry: 4 semester hours

Prerequisites: Sophomore standing or consent of instructor. This course is designed to develop historical thinking skills. Emphasis will be placed on reading of historical sources, exploring the rhetoric of history, identifying perspectives in historical sources, and the process of formulating historical questions. Other topics covered will include proper citation procedures and historiography. The course is writing intensive and will involve primary source research at libraries and archives.

HIST 3000 Selected Topics In History: 3 semester hours

Prerequisite: Junior standing or consent of instructor. Special topics in history to be determined by the field, availability of instructors and interest of students. The course may be repeated for credit with the consent of the instructor.

HIST 3031 Modern Japan: From the Meiji Restoration to the Present: 3 semester hours

Prerequisite: Junior Standing Or Consent Of Instructor. The Economic, Social, And Political Development Of Modern Japan.

HIST 3032 Modern China: From the Decline of the Qing Empire to the Global Age: 3 semester hours

Prerequisite: Junior Standing Or Consent Of Instructor. The Economic, Social, And Political Development Of Modern China.

HIST 3033 Modern History Of The Asian Pacific Rim: 3 semester hours

Prerequisites: Junior standing or consent of the instructor. A course on the modern history of the broad economic region of East and Southeast Asia as well as the region's interaction with the United States. The course is designed for students who need to understand the political and economic dynamics of the countries around the Pacific Basin and the historical roots of various problems.

HIST 3041 Topics In American Constitutional History: 3 semester hours

Prerequisite: Junior standing or consent of instructor. Origins and development of the principal institutions and ideas of the American constitutional systems; the role of the constitution and the Supreme Court in the growth of the nation; important Supreme Court decisions; great American jurists and their impact upon the law; historical background to current constitutional issues.

HIST 3043 History Of Crime And Justice: 3 semester hours

Same as CRIMIN 3043. Prerequisites: Junior standing or consent of instructor. The analysis, development, and change in philosophies and responses to crime. Emphasis on major forms and definitions of crime, the emergence of modern policing, the birth of the prison, and the juvenile court system.

HIST 3051 Latin America: From Conquest to Independence: 3 semester hours

Prerequisites: Junior standing or consent of Instructor. Latin America from the pre-Columbian Civilizations to 1808, stressing social, political, and economic institutions in the Spanish colonies. This course satisfies the Cultural Diversity requirement.

HIST 3092 Europe, 1900-1950: War And Upheaval: 3 semester hours Prerequisites: Junior standing or consent of the instructor. The impact of World Wars I and II and the search for equilibrium.

HIST 3093 Europe, 1950-Present: Peace And Prosperity: 3 semester hours

Prerequisites: Junior standing or consent of instructor. A survey of the main social, economic, political, military, and cultural trends in Europe since the outbreak of World War II.

HIST 3097 Spain: From Superpower to Napoleon's Puppet: 3 semester hours

Prerequisite: Junior standing or consent of instructor A survey of Spanish history from the fifteenth century, emphasizing its period of imperial greatness and examining the effects of empire on national development.

HIST 4001 Special Readings: 1-10 semester hours

Prerequisite: Consent of the instructor. Independent study through readings, reports and conferences.

HIST 4002 Collaborative Research: 3 semester hours

Prerequisite: Consent of instructor Faculty-student collaboration on a research project designed to lead toward the publication of a jointly-authored article. The faculty member will direct the research.

HIST 4003 Internship: 3-6 semester hours

Prerequisites: Consent of Supervising instructor and instituion offering the internship Supervised practicum in a museum, historical agency, and other institution offering an opportunity for hands-on experience in public history. This elective course supplements but does not replace the requirements for a baccalaureate degree in history. May not be taken for graduate credit.

HIST 4014 World History For The Secondary Classroom: 3 semester hours

Prerequisites: TCH ED 3310 or consent of the instructor. This course is required for Social Studies certification. Adapts the themes and subject matter of World History to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of World history, on expanding bibliography, and on choosing methods of inquiry for use in an interactive classroom. Cannot be counted towards the minimum 39-hour history major requirement, but can be counted towards the 45 hour maximum and for Social Studies Certification. Not available for graduate credit.

HIST 4142 Inquiries in U.S. History: 3 semester hours

Prerequisites: HIST 2999. This course will develop historical thinking and writing skills through investigation in topics in National History.

HIST 4143 Inquiries in World History: 3 semester hours

Prerequisites: HIST 2999. This course will develop historical thinking and writing skills through investigation in topics in World History.

HIST 4999 Senior Seminar: 5 semester hours

Prerequisites: HIST 2999, consent of department and presentation of three examples of formal written work submitted in prior upper-division courses in history. Studies in historical methodology and historiography. Directed readings, research, and writing leading to the production of an original piece of historical scholarship. An exit interview is required. Senior seminar is required of all history majors. May not be taken for graduate credit.

HIST 5000 Advanced Selected Topics In History: 3 semester hours
Prerequisite: Graduate standing Special topics in history. The course may
be repeated for credit with consent of the instructor.

HIST 5142 Advanced Inquiries in U.S. History: 3 semester hours

Prerequisite: Graduate standing. This course will develop historical
thinking and writing skills through investigation in topics in United States
history.

HIST 5143 Advanced Inquiries in World History: 3 semester hours
Prerequisite: Graduate standingThis course will develop historical thinking
and writing skills through investigation in topics in World history.

HIST 5592 The History of the Visual Arts in American Museums: 3 semester hours

Same as ANTHRO 5592 and ART HS 5592. Prerequisites: Graduate Standing and consent of instructor. This course is an introduction to selected topics in the history of museology, focusing on art and anthropology museums as sites for the interpretations of art and culture, and as contested meeting grounds for various views of history and culture.

HIST 6000 The Historian's Craft: 1-3 semester hours

This course will introduce incoming students to graduate work, both in the field of history generally and to the M.A. program at UM-St. Louis in particular. It will familiarize them with the fields of historical study and the UMSL faculty who teach them, protocols of the profession, and methodologies of historical research, writing, and analysis. It will also help students learn about and prepare for careers outside the academy and/or Ph.D. programs in the field. Students may be required to attend colloquia off campus.

HIST 6001 Introduction to Public History and Cultural Heritage: 3 semester hours

Prerequisites: Graduate Standing or Consent of Instructor. This seminar will introduce students to the theory and practice of public history and cultural heritage. Readings will acquaint students with these fields of study and offer commentary on a variety of strategies for making the past relevant for contemporary audiences.

HIST 6013 Historical and Theoretical Foundations of US History in Schools and Communities: 3 semester hours

Prerequisites: Graduate standing or consent of instructor The intent of this course is to foster critical inquiry into school and public presentations of historical knowledge. Particular emphasis will be placed on defining the broad and connecting themes of U.S. History and the political and cultural struggles that have shapped school curriculum and public discussion since the nineteenth century.

HIST 6014 World History For The Secondary School Classroom: 3-6 semester hours

Prerequisites: Graduate standing or consent of instructor The intent of this course is to adapt the themes and subject matter of World history to the secondary classroom and to train teachers in the methodology of Socratic symposium, techniuqes designed to maximize the use of sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of World history, on expanding bibliography, and on methods for choosing primary sources for use in an interactive classroom. HIST 6014 may not be used to meet history degree requirements.

HIST 6101 Readings In American History To 1865: 3-5 semester hours
Prerequisites: Graduate standing and consent of instructor. Directed
readings and writing on selected topics and areas in American history to
1865.

HIST 6102 Readings In American History Since 1865: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in American history since 1865.

HIST 6104 Readings In African-American History: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor Directed readings and writing on selected topics and areas in African-American history.

HIST 6111 Readings In European History To 1715: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in European history to 1715.

HIST 6112 Readings In European History Since 1715: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in European History since 1715.

HIST 6113 Readings In East Asian History: 3-5 semester hours
Prerequisites: Graduate standing and consent of instructor. Directed
readings and writing on selected topics and areas in East Asian history.

HIST 6114 Readings In Latin American History: 3-5 semester hours

Prerequisites: Graduate standing and consent of instructor. Directed readings and writing on selected topics and areas in Latin American history.

HIST 6115 Historical Thinking in Theory and Practice I: 3 semester hours

Prerequisites: Graduate Standing or consent of instructor. Same as TCH ED 6115. This course explores theoretical and research literature on historical thinking. It further examines effective teaching strategies and curriculum materials that facilitate historical thinking and reading skills while also broadening content knowledge. It will familiarize students with text and web-based resources available for instruction.

HIST 6116 Historical Thinking in Theory and Practice II: 3 semester hours

Same as HIST 6116. Prerequisites: HIST 6115 / TCH ED 6115 or consent of instructor. Building upon HIST 6115 / TCH ED 6115, this course emphasizes the design, implementation, and assessment of teaching materials and practices that foster historical thinking and reading. In this hands-on, action research course, students will focus on their own teaching materials and practices to improve their capacity to teach and assess students' historical thinking.

HIST 6121 Directed Readings: 1-3 semester hours

Prerequisites: Consent of a member of the Doctoral Faculty. Directed research at the graduate level.

HIST 6122 Collaborative Research: 3-6 semester hours

Prerequisites: Graduate Standing and Consent of Instructor Faculty-student collaboration on a research project designed to lead toward the publication of a jointly-authored article. The faculty member will direct the research.

HIST 6123 Thesis Seminar: 1-6 semester hours

Prerequisites: Graduate standing and consent of instructor. Thesis research and writing on a selected topic in history.

HIST 6124 Graduate Internship: 3 semester hours

Prerequisites: Consent of supervising instructor and institution offering the internship. Supervised practicum in a museum, historical agency, and other institution offering an opportunity for hands-on experience in public history.

HIST 6125 Practicum in Public History and Cultural Heritage: 3 semester hours

Prerequisites: Graduate Standing or Consent of Instructor. In collaboration with a designated community partner, students will research and interpret the past for contemporary audiences. The course will combine traditional classroom sessions with hands-on training.

HIST 6134 History Curatorship: 5 semester hours

Prerequisites: Graduate standing and consent of instructor. Principles and practices of curatorship in history museums. Historiography and research in material culture; theoretical foundations; methodologies for collecting and curating collections; legal and ethical issues; interpretation; role of the history curator in exhibit and program development; responsibilities to the community.

HIST 6135 Foundations Of Museology I: 3 semester hours

Same as ART HS 6035 and ANTHRO 6135. Prerequisites: Consent of Director of Museum Studies Program. Concepts for understanding museums in their social and cultural context; history of museums; museology and general social theory; information transfer vs meaning-making models; museums and communities; the changing role of museums; museums as complex organizations; process models of museology.

HIST 6136 Foundations In Museology II: 3 semester hours

Same as ART HS 6036 and ANTHRO 6136. Prerequisites: HIST 6135 and consent of Director of Museum Studies Program Audience-centered approaches to museology; visitor research and learning theory; philosophical and practical considerations in museum planning; the physical design of museums; creativity; exhibit and program development; collections and curation; the challenge of diversity; the future of museums.

HIST 6137 Effective Action In Museums: 3 semester hours

Same as ART HS 6037 and ANTHRO 6137. Prerequisites: Consent of Director of Museum Studies Program. The nature of the work done in museums; how museums are organized to accomplish this work; professional roles and practices; technology and resources used by museums; skills for creative and effective leadership in project management and administration in museums; planning, flow charting, budgeting, team dynamics and related skills. The course will include several site visits to area museums and guest lectures by a variety of museum professionals.

HIST 6138 Museum Studies Master's Project: 4 semester hours Same as ART HS 6038 and ANTHRO 6138. Prerequisites: Consent of Director of Museum Studies Program. Research and writing/ exhibit development on a selected topic.

*HIST 6140 Readings in Metropolitan History: 3-5 semester hours*Prerequisite: Graduate StandingDirected readings and writing on selected topics and areas in Metropolitan History.

HIST 6141 Readings in Regional History: 3-5 semester hours

Prerequisite: Graduate StandingDirected readings and writing on selected topics and areas in Regional History.

HIST 6142 Readings in U.S. History: 3-5 semester hours

Prerequisite: Graduate Standing. Directed readings and writing in selected topics and areas in United States History.

HIST 6143 Readings in World History: 3-5 semester hours

Prerequisite: Graduate Standing. Directed readings and writing on selected topics and areas in World History.

HIST 6150 Directed Readings in Metropolitan History: 1-3 semester hours

Prerequisites: Consent of a member of the graduate faculty. Directed readings and research at the graduate level.

HIST 6151 Directed Readings in Regional History: 1-3 semester hours Prerequisites: Consent of a member of the graduate faculy. Directed readings and research at the graduate level.

HIST 6152 Directed Readings in U.S. History: 1-3 semester hours
Prerequisites: Consent of a member of the graduate faculty. Directed
readings and research at the graduate level.

HIST 6153 Directed Readings in Worldl History: 1-3 semester hours Prerequisites: Consent of a member of the graduate faculty. Directed readings and research at the graduate level.

HIST 7101 Doctoral Proseminar In Metropolitan History: 3 semester hours

Prerequisite: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7102 Doctoral Research Seminar In Metropolitan History: 3 semester hours

Prerequisites: Consent of the instructor and advanced graduate standing Discussion and presentation of research on a special topic within the field.

HIST 7110 Doctoral Proseminar in Regional History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7112 Doctoral Research Seminar in Regional History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7120 Doctoral Proseminar in National History: 3 semester hours Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7121 Doctoral Research Seminar in National History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7130 Doctoral Proseminar in Transnational History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Systematic review of the literature and methods of the field.

HIST 7131 Doctoral Research Seminar in Transnational History: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Discussion and presentation of research on a special topic within the field.

HIST 7201 Doctoral Research Methods Seminar: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Theory based approach to the methods of historical research.

HIST 7202 Dissertation Research Seminar: 3 semester hours

Prerequisites: Consent of instructor and advanced graduate standing. Dissertation research and writing on a selected topic in history.

Political Science Courses

POL SCI 1100 Introduction To American Politics: 3 semester hours

Introduction to basic concepts of government and politics with special reference to the United States, but including comparative material from other systems. Course fulfills the state requirement.

POL SCI 1200 Foundations Of Law: An Introduction To Legal Studies: 3 semester hours

Same as CRIMIN 1200. As a broad liberal-arts approach to the study of law, this course is designed to familiarize students with legal ideas, legal reasoning, and legal processes. It also provides comparative and historical perspectives on law that will help explain legal diversity and legal change. Finally, it offers opportunities to explore some of the persistent issues in law and legal theory: for example, issues about the sources of law, the responsibilities of the legal profession, or the relative merits of the adversary system.

POL SCI 1450 Introduction To Labor Studies: 3 semester hours

(Same as Interdisciplinary 1450)This course covers many topics important to the role of unions in the American political system and American society from a labor perspective. Topics include the role of workers in current and future times, unions' institutional structure, collective bargaining strategies and obstacles for union organizing, recent union campaigns, labor's political role, and the relationship between labor and the media.

POL SCI 1500 Introduction To Comparative Politics: 3 semester hours

This course introduces students to western and non-western systems. It examines similarities and differences in the basic political ideologies, structures, economies, social institutions and governmental processes of developed and developing countries. It also provides frameworks for understanding the cultures of the world that are the basis for formal economic and political institutions. In addition, the course examines the role of non-state institutions, including trans-national ones, in shaping national policies. It uses case studies from Africa, Asia, Latin America, as well as Europe, to enhance student understanding of comparative politics. (This course fulfills the cultural diversity requirement.).

POL SCI 1550 Women And Politics In The Developing World: 3 semester hours

Women play a central role in the transformation of political, economic, cultural and gender relations in developing nations. This course examines the political role of women in these transformations. In particular, the course examines: 1) ways that modernity, universal education,the market economy and globalization have widened the scope of women's public activities; 2) the emergence of social movements driven by the transformation of economic and political roles brought about by the inclusion of women in the political arena; 3) the re-interpretation of religious doctrines, especially those that emphasize women's "return" to the private sphere and thelegitimate denial of women's political rights. Fulfills the Cultural Diversity requirement.

POL SCI 1600 Contemporary Political Ideologies: 3 semester hoursAn introduction to the major political ideologies of the world today.
Emphasis is placed on democracy, feminism, Marxism, and nationalism.

POL SCI 1800 World Politics: 3 semester hours

An introduction to the field of international relations, covering such topics as nationalism, power, foreign policymaking, diplomacy, war, arms control and disarmament, interdependence, the regulation of conflict, and other aspects of politics among nations.

POL SCI 1820 Global Issues: 3 semester hours

A freshman and sophomore level course designed to introduce students to a range of global concerns, including population, hunger, trade, energy, and the environment. The worldwide implications of these and other problems will be considered, as well as their effects on local communities such as st louis.

POL SCI 2000 Political Analysis: 3 semester hours

An introduction to political analysis, emphasizing both the logic of inquiry and practical methods. Students learn about the construction and evaluation of theories that relate to real-world politics. They also have an opportunity for handson experience with qualitative and quantitative methods including graphics, descriptive statistics, cross-tabular and correlational analysis, hypothesis testing, and computer applications.

POL SCI 2260 Law, Politics and Society: 3 semester hours

Same as CRIMIN 2226. Prequisites: POL SCI 1100 or POL SCI 1200 or consent of instructor. This course examines the ways in which law in America connects with politics and society. The course will cover the litigation process, access to the courts, how and why individuals and groups bring litigation to pursue political and policy goals, and how lawyers, judges and other political actors use law to solve policy problems. Attention will be placed on current legal policy issues facing American society.

POL SCI 2280 Judicial Politics And Policy: 3 semester hours

Prerequisites: POL SCI 1100 or POL SCI 1200 or consent of instructor This course is an examination of the American state and federal legal systems. Topics examined in this course include an analysis of the structure, organization and fundation of courts. Emphasis will be placed on the role of juries, judges, attorneys, litigants, and interest groups in the judicial system. The objective of the course is to evaluate courts as political institutions and analyze the policy-making role of judges.

POL SCI 2290 Gender And The Law: 3 semester hours

Same as GS 2290. This course examines the ways in which laws and interpretations of the laws affect gender equality in the United States. Emphasizing how traditional roles impact both women and men historically and currently, the course highlights major pieces of legislation and court rulings related to employment, economics, education, sexual harassment, pornography, rape, reproductive rights, and domestic relations. The course stresses the impact of federal and state institutions and non-governmental influences on equality. It also addresses gender representation in the legal profession and its effect on judicial decisions. (This course satisfies State requirements in American History and Government).

POL SCI 2300 State Politics: 3 semester hours

Prerequisite: POL SCI 1100 Or Consent Of Instructor An Examination Of Contemporary State Politics In The U.S. Social, Economic And Political Determinants Of Policies; Federal-State-Local Relations, Elections, Interest Groups And Participation; Executive Legislative And Judical Institutions And Processes, Policies And Their Impact. Course Fulfils The State Requirement.

POL SCI 2320 African Americans And The Political System: 3 semester hours

Prerequisites: POL SCI 1100 or consent of instructor. Examination of the status of African Americans in the context of the American political system. The course will focus on a number of issues, including: attitudes of various publics toward racial concerns; nature of problems in specific policy areas (e.g., unemployment, school desegregation, housing, poverty); representation of African Americans in governmental institutions and the private sector; and the role of AfricanAmerican leadership and civil rights groups in the political process. Course fulfills the state requirement.

POL SCI 2350 Introduction To Urban Politics: 3 semester hoursPrerequisite: POL SCI 1100 Or Consent Of Instructor. Examination
Of Structure And Process Of Politics In The Urban Community, With
Emphasis On Their Relationships To Community Power Structures.
Course Fulfils The State Requirement.

POL SCI 2380 The Politics of Gender in the United States: 3 semester hours

Same As GS 2380. Prerequisites: POL SCI 1100 or consent of instructor. This course examines the role of gender in political institutions, practices and policy in the United States, past for political equality, the relationship between gender and political participation, vote choice, and public opinion, and how legislative, executive, and judicial offices are gendered at the national, state, and local levels. (This course satisfies State requirements in American History and Government.).

POL SCI 2400 Public Administration: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. Survey of Public Administration, with reference to organization, financial administration, personnel management, judicial control of the administrative process. Course fulfils state requirement.

POL SCI 2420 Introduction To Public Policy: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor Study of differing approaches to understanding the public policy process. Course surveys the application of social science to public issues and problems. Course fulfills the state requirement.

POL SCI 2500 Comparing Different Worlds: 3 semester hours

This course focuses on the role of political institutions, economic structures and social groups in explaining differences in forms of government and levels of socio-economic development. It explores in detail one or more of these themes in cases drawn from developing and developed nations.

POL SCI 2510 The Politics of European Union: 3 semester hours

Prerequisite: POL SCI 1500 or consent of instructor. The European Union has become the driving force in European economic and social development. This course assesses the changing nature of national identity and national sovereignty in Europe. It compares and contrasts key public policies, (single market, welfare, migration, gender mainstreaming, "democratic deficits"), along with core EU actors and institutions, and includes participation in the annual Midwest Model EU.

POL SCI 2520 Middle Eastern Politics: 3 semester hours

Prerequisite: POL SCI 1100, POL SCI 1500 Or Consent Of Instructor. Survey Of Political Movement Governments, And International Conflicts In The Middle East. Islam, Nationalism, Ideologies And Economic Systems Will Be Studied. The Effect Of Oil And The Military Will Also Be Considered. Course Fulfils The Non-Euro-American Requirement.

POL SCI 2530 Political Systems Of South America: 3 semester hours

Prequisites: POL SCI 1500 or consent of instructor. An introduction to the study of the political systems of South America. Examination of the cultural context that has shaped the political, economic, and social development of states in the region. This course satisfies the Cultural Diversity requirement.

POL SCI 2540 Political Systems Of Mexico, Central America And The Caribbean: 3 semester hours

Prequisites: POL SCI 1500 or consent of instructor. An introduction to the study of the political systems of Mexico, Central America, and the Caribbean. Examination of the cultural context that has shaped the political, economic, and social development of these countries. This course satisfies the Cultural Diversity requirement.

POL SCI 2550 East Asian Politics: 3 semester hours

An introduction to the study of the Chinese and Japanese political systems. Examination of the cultural context that has shaped the path of political development for both states. This course satisfies the Cultural Diversity requirement.

POL SCI 2580 African Politics: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An introduction to the nature of societies, governments, and international relations in Africa. The course deals with forms of governance on the continent, regional groupings of states, and persistent conflicts within and among states. Problems of economic undervelopment, food supplies, health and population trends, and cultural change are analyzed, along with the role of outside major power intervention. Fulfills the Cultural Diversity requirement.

POL SCI 2610 Ancient And Medieval Political Thought: 3 semester hours

Study of political thought from Plato to Machiavelli.

POL SCI 2620 Modern Political Thought: 3 semester hoursStudy of political thought from Machiavelli to the present.

POL SCI 2650 American Political Thought: 3 semester hours

History of political thought in the United States from Colonial times to the present.

POL SCI 2820 United States Foreign Policy: 3 semester hours

Prequisite: POL SCI 1100 or POL SCI 1500, or consent of Instructor. Examination of the factors influencing the formation and the execution of American foreign policy, with a focus on specific contemporary foreign policy issues.

POL SCI 2900 Studies In Political Science: 3 semester hours Selected topics in political science.

POL SCI 3200 Constitutional Law: 3 semester hours

Prerequisites: POL SCI 1100, or POL SCI 1200, or consent of the instructor. Study of leading American constitutional principles regarding legislative, executive, and judicial power, federalism, the commerce clause, and economic due process as they have evolved through the important decisions of the U.S. Supreme Court. Course fulfills the state requirement.

POL SCI 3210 Civil Liberties: 3 semester hours

Prequisite: POL SCI 1100, or POL SCI 1200, or POL SCI 3200, or consent of instructor. Civil rights in the American constitutional context, emphasizing freedom of religion, freedom of expression, minority discrimination, and rights of defendents. Course fulfils the state requirement.

POL SCI 3220 Labor Law: 3 semester hours

Prerequisites: Consent of instructor In this course, participants will examine the role of government in the regulation of labor-management relations in the United States. While the focus of the course will be on federal laws regulating private sector labor relations, parallel issues addressed in the Railway Labor Act and state public sector labor relations law will also be covered. Specific topics include the legal framework for the organization of workers, definition of prohibited or unfair labor practices of employers and unions, legal regulation of the collective bargaining process, regulation of the use of economic weapons in labor disputes, enforcement of collective bargaining agreements and the regulation of internal trade union activities.

POL SCI 3260 The Supreme Court: 3 semester hours

Prerequisites: POL SCI 1100, or POL SCI 1200 or consent of the instructor An examination of the role, function and assertion of power by the U.S. Supreme Court in our constitutional democracy. Topics include an historical overview of the Supreme court, the process of selecting Supreme Court Justices, life in the Court, Supreme Court decision making, Supreme Court policymaking, implementation and impact of Court decisions and the role of the Supreme Court as a national policymaker. This course fulfills the state requirement.

POL SCI 3300 The American Presidency: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. Study of constitutional, political, legislative, and administrative roles played by the American chief executive in the development of public policy. Course fulfils state requirement.

POL SCI 3330 Introduction To Political Behavior: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An introduction to political behavior employing perspectives from both political psychology and political sociology. Subjects include political socialization, the character of public opinion, citizen participation, group dynamics, the social determination of reality, and the underlying bases of leadership and authority. Course fulfills the state requirement.

POL SCI 3331 Congressional Politics: 3 semester hours

Prequisite: POL SCI 1100 or consent of instructor. An examination of the Congress of the United States, its history and evolution, its contemporary politics, and its role in the national policy-making process. Topics include candidate recruitment, campaigns and elections, representation, committees, legislative leadership, roles and norms, voting alignments, lobbyists and interest groups, oversight of administration, and House-Senate comparisons, the role of Congress in foreign policy, economic policy, social-welfare policy will be examined.

POL SCI 3340 Politics And The Media: 3 semester hours

Prerequisite: POL SCI 1100 or consent of instructor. An analysis of the role the media play in shaping American political life. The first part of the course examines the organizational structures, the economic and psychic incentives, and the social and professional norms that define how television and newspapers report news about public affairs. The second part then considers the nature of a mass-communications society by looking at how reality is defined, the susceptibility of mass publics to persuasion and propaganda, the peculiar form of media election campaigns, and the manner in which the media link changes the basic character of a citizenry.

POL SCI 3350 Political Parties And Elections: 3 semester hours

Prerequisite: POL SCI 1100 Or Consent Of Instructor. Development,

Organization, Functions, Activities Of Major And Minor Political Parties,

Pressure Groups, Election Administration, Especially In The United States.

Course Fulfills The State Requirement.

POL SCI 3390 Studies In American Politics: 3 semester hours
Prerequisite: POL SCI 1100 Or Consent Of Instructor. Selected Topics In
American Politics. May Be Repeated.

POL SCI 3420 Public and NonProfit Personnel Management: 3 semester hours

Prerequisite: POL SCI 1100, POL SCI 2400 or consent of instructor. A study of personnel practices in the public and nonprofit sectors, including recruitment, job development, labor relations, and administration of equal employment/ affirmative action Programs.

POL SCI 3430 Union Leadership And Administration: 3 semester hours

Prerequisites: Consent of instructor This course will focus on the roles and challenges of union leadership in a changing environment. Topics will include the union leader's roles as representative, organizer and educator as well as administrative responsibilities within the union and the relationship with enterprise management in both adversarial and participatory situations. Options for leadership style and organizational models will be discussed and explored in both theory and practice. Leaders will develop their skills of motivation, speaking strategic planning and managing complex campaigns and diverse organizations.

POL SCI 3440 Public and NonProfit Budgeting: 3 semester hours
Prerequisite: POL SCI 1100 or consent of instructor Budgeting is the
study of "who gets what" and who pays for it. This course examines the
administration and politics of federal, state, and local government budgets.
Students gain experience in interpreting budget documents and making
budget choices, using electronic and other resources.

POL SCI 3450 Urban Administration: 3 semester hours

Prequisite: POL SCI 1100 or consent of instructor. Study of administrative machinery and practices of metropolitan government, how metropolitan areas organize themselves to provide services, how urban policies are made and implemented, how budgeting and personnel recruitment processes operate, and how these relate to urban policies. Course fulfills state requirement.

POL SCI 3460 The Politics Of Poverty And Welfare: 3 semester hours Prerequisite: POL SCI 1100 Or Consent Of Instructor An Examination Of The Structure Of Income Inequality In The U.S. And Public Policies Designed To Redistribute Wealth And To Treat Poverty. The History Of Welfare Programs, The Growth Of The Welfare State, And Attempts To

POL SCI 3470 Collective Bargaining: 3 semester hours

Cut Social Spending Are Closely Examined.

This course involves a study of collective bargaining processes including contract negotiations, contract administration, and methods for the resolution of bargaining disputes. Both theoretical and applied issues in collective bargaining will be addressed. Specific topics include the economic determination of bargaining power, legal constraints on the bargaining process, negotiation strategies and techniques, and the use of mediation and arbitration in the resolution of bargaining disputes.

POL SCI 3480 Environmental Politics: 3 semester hours

Prerequisites: POL SCI 1100 or consent of instructor This course examines the process of environmental policymaking and key environmental issues. Topics include national and international policies toward air and water pollution, energy use, solid and toxic waste disposal, global warming, overpopulation, and wilderness and wildlife conservation.

POL SCI 3570 Gender, Ethnicity and Public Policy: 3 semester hours
Prerequisite: POL SCI 1100, or POL SCI 1500, or consent of instructor.
Raises the question as to whether "more women in politics," stemming
from diverse economic, racial, ethnic backgrounds and age roups, will
necessarily result in better policies for women and men. Compares
gendered and racialized impacts of a wide array of public policies (in the
areas of education, employment health care, welfare, and reproductive
technologies) across a broad sample of advanced industrial societies.
Analyzes the "empowerment" potential of new equality policies being
generated at the international and supranational levels (e.g., in the UN and
the European Union).

POL SCI 3580 African Diasporas: Identity Politics And Transnational Communities: 3 semester hours

Prerequisites: POL SCI 1500 or consent of instructor. This course focuses on the role of Africa's regional and global diaspora(s) in the construction of post-modern identities, democratization and foreign policymaking in diverse countries.

POL SCI 3590 Women and Leadership World-Wide: Breaking the Glass Ceiling: 3 semester hours

Same as GS 3590. Prerequisites: POL SCI 1500 or consent of instructor. Compares women's day-to-day leadership and participation patterns across a wide variety of political-economic contexts, emphasizing their performance as elective and executive office holders. It examines the experiences of individual female leaders, the effect of country- specific nomination and recruitment strategies, party dynamics, and the larger political opportunity structure hindering or promoting the balanced participation of women and men in national leadership. Understanding how gender (the socially constructed meanings related to biological sex) operates within these specific contexts is a major concern.

POL SCI 3595 Studies In Comparative Politics: 3 semester hoursPrerequisites: POL SCI 1500 or consent of instructor. Selected topics in comparative politics. May be repeated.

POL SCI 3690 The Marxist Heritage: 3 semester hours

Same as PHIL 3369. An interdisciplinary study of Marx and leading Marxists, designed to evaluate their influence on recent political, economic, and social thought and institutions.

POL SCI 3700 NonProfit Organizations and Public Policy: 3 semester hours

Prerequisites: POL SCI 1100; Recommended: POL SCI 2420. This course explores the roles of nonprofit organizations in public policy issues through citizen advocacy and political participation. The course begins with an overview of the scope of the nonprofit sector and then examines its political and legal foundations in the U.S. Theories about civic engagement and the rights of association are considered. Students will gain practical knowledge about direct and grassroots lobbying by nonprofit organizations. Discussion and analysis of actual advocacy campaigns carried out through nonprofit effort will be included. The course also investigates the formation of nonprofit political action committees (PACs) and other so-called 527 organizations, as well as ethical abuses of the nonprofit form for political purposes.

POL SCI 3710 NonProfits, Civil Society and Volunteerism: 3 semester hours

Prerequisites: POL SCI 1100 and junior standing. This course introduces basic concepts about the role of voluntary action in democratic society, especially in the context of organizations in the nonprofit sector. Theories of civil society and social capital are explored. Selected approaches to leadership are considered, in addition to the variety of motivations for giving time and resources to the pursuit of social and political change. Students will gain practical skill development in the recruitment, training and utilization of volunteers. Through study of recent case examples, students will develop an appreciation for the characteristics of effective leadership and strategic use of volunteers. In addition, the course includes an overview of new technologies that are being used by voluntary organizations to enlist participation and strengthen commitment of supporters.

POL SCI 3830 International Political Economy: 3 semester hours Prerequisite: POL SCI 1100 or POL SCI 1500, or consent of instructor. This course provides an introduction to international political economy. In particular, it will focus on the politics of international trade, finance, and investment. It will analyze the relationships between developed and developing countries and it will assess the relative usefulness of alternative frameworks for studying international political economy.

POL SCI 3850 International Organizations And Global Problem-Solving: 3 semester hours

Prequisites: POL SCI 1100, POL SCI 1200, or consent of the instructor. Introduction to the study of international organization. The course focuses on relationships between nation-states and "nonstate" actors (e.g., global intergovernmental organizations such as multinational corporations) in world politics and on the role of international institutions in such problem areas as economic development, management of resources, and control of violence across national boundaries.

POL SCI 3860 Studies In War And Peace: 3 semester hours

Prerequisite: POL SCI 1100, POL SCI 1500, or consent of instructor. Exploration, development, and testing of theories about the causes and consequences of war, peace, and conflict among nations. A broad range of literature on war and peace will be reviewed, and applied to crisis situations in the international system.

POL SCI 3890 Studies In International Relations: 3 semester hours Prerequisite: POL SCI 1100, POL SCI 1500, or consent of instructor. Selected topics in international relations. May be repeated.

POL SCI 3900 Special Readings: 1-10 semester hours Prerequisite: Consent of instructor. Independent study through readings, reports, and conferences. May be repeated.

POL SCI 3940 Public Affairs Internship: 1-6 semester hours

Prerequisite: Junior standing and consent of instructor. Independent study involving work with an appropriate public or private agency. A maximum of six credit hours may be earned.

POL SCI 3950 Senior Seminar In Political Science: 3 semester hours Prerequisite: POL SCI 2000, senior standing and consent of instructor. Required of all political science majors in their last year of coursework as an integrative, capstone experience. Emphasis is on student-faculty interaction in a seminar format designed to engage upper-level students in a critical examination of a broad theme in political science, leading to the production of a major research paper. Topics vary. May be repeated. This course is not available for graduate student credit.

POL SCI 4040 Survey Research Practicum in Political Science: 3 semester hours

Prerequisite: Junior standing and consent of the instructor. The execution of a sample survey, including establishing study objectives, sampling, questionnaire construction, interviewing, coding, data analysis, and presentation of results.

POL SCI 4060 Theory Of Decisions And Games: 3 semester hours
Prerequisites: Six hours of Philosophy and junior standing, or Political Sci
6401 (or the equivalent, or consent of the instructor. A study of rational
decision-making, including games against nature, zero-sum games,
and social choices. Topics will include the following: expected utility
maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's
theorem on the impossibility of a social welfare function. Parts of the
course are technical in nature; a prior course in mathematics (e.g.,
finite mathematics, calculus, statistics or an economics course with a
mathematical component), symbolic logic, or some other course with
comparable mathematical content. (Same as Philosophy 4465).

POL SCI 4090 American Government For The Secondary Classroom: 3 semester hours

Same as: SEC ED 4090 Prerequisites: Admission to the Teacher Education Program. TCH ED 3310 or the consent of the instructor. Adapts the themes and subject matter of American Government to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting methods of inquiry for use in an interactive classroom. Can be counted towards the Political Science major requirement, but not the American Politics subgroup. Counts towards Social Studies certification. Not available for graduate credit.

POL SCI 4460 Urban Planning And Politics: 3 semester hours Prerequisite: POL SCI 1100, POL SCI 2400, or consent of instructor. Examination of the political processes of urban areas, as they relate to the planning of services and facilities. Course fulfills state requirement.

POL SCI 4510 Comparative Public Policy And Administration: 3 semester hours

Prerequisite: POL SCI 1500 or consent of instructor. A comparative study of the characteristics of public administrators, their institutions and environments in western democratic, developing nations and communist political systems.

POL SCI 4520 Mega-Cities and Diasporas: Understanding Global Migration: 3 semester hours

Prerequisites: POL SCI 1500 or consent of instructor. This course examines the causes, dynamics and effects of mega-city development and migrating diasporas in a variety of national settings. Case studies include cities based in Europe, South America, china, India, Turkey, and parts of Africa, fostering global awareness, as well as an understanding of the "interconnectedness" of politics, economics and climate change across the planet.

POL SCI 4850 International Law: 3 semester hours

PREREQUISITE: POL SCI 1100, POL SCI 1500, or consent of instructor. Study of the international legal system, including the content and operation of the laws of war and peace, how law is created and enforced with regard to the oceans and other parts of the globe, and the relationship between international law and international politics.

POL SCI 4900 Topics In Political Science: 3 semester hours

Prerequisites: POL SCI 1100 or consent of instructor Selected topics in Political Science.

POL SCI 5060 Theory Of Decisions And Games: 3 semester hours

POL SCI 6300 Leadership and Management in NonProfit Organizations: 3 semester hours

Same as P P ADM 6300 and SOC WK 6300. Prerequisites: Graduate standing required. Addresses the role and scope of the independent sector in the United States, as well as the leadership and management of nonprofit organizations within that sector. Topics include the economic and political scope of the independent sector, the role of volunteerism in a democratic society, and the role and scope of philanthropy. Topics in voluntary organization management and leadership include the dynamics, functions and membership structure of NPOs, especially staff-board and other volunteer relations; governance and management of NPOs; resource mobilization; and program development management and evaluation.

POL SCI 6401 Introduction To Policy Research: 3 semester hoursProcedures for testing explanations, including research design, principles of measurement, probability sampling, methods of data collection, and techniques for analyzing data.

POL SCI 6402 Intermediate Techniques In Policy Research: 3 semester hours

Prerequisite: Gradaute standing and POL SCI 6401. elementary distribution theory, statistical inference, and introduction to multiple regression. Emphasis on practical applications.

POL SCI 6403 Advanced Techniques In Policy Research: 3 semester hours

Prerequisite: Graduate standing and POL SCI 6402. Selected topics in policy research emphasizing forecasting, modeling and estimation.

POL SCI 6404 Multi-Method Research Design: 3 semester hours
Prerequisite: POL SCI 6403 or consent of instructor. Develops policy
research skills that combine qualitative and quantitative social science
tools and applies an appropriate mix of these tools to specific policy
problems. Topics include alternative approaches to causal analysis, levels
of analysis, triangulation from a variety of qualitative and quantitative
research techniques, building contextual effects into multiple research
projects, techniques for assessing alternative program theories and
clarifying implicit assumptions, and meta-analysis of secondary data
sources.

POL SCI 6405 Directed Readings In Research Methods: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6410 Introduction To Policy Analysis: 3 semester hoursSame as P P ADM 6000. Systematic development of a critical/analytic base for dealing with public policy.

POL SCI 6415 Directed Readings And Research In Public Policy: 1-10 semester hours

Same as P P ADM 6150. Prerequisite: Consent of instructor. Independent study through readings, reports, research propjects, and conferences. May be repeated for credit, provided the subject matter is different.

POL SCI 6420 Proseminar In Public Law: 3 semester hoursStudy of judicial systems and processes (judges, courts, litigants, and juries) and evaluation of legal policies (Compliance, impact and deterrence).

POL SCI 6421 Seminar In Public Law: 3 semester hours

Research problems and designs, models and approaches to the study of public law. May be repeated for credit when the subject matter is different.

POL SCI 6422 Law, Courts And Public Policy: 3 semester hours
Same as CRIMIN 6422. Prerequisites: Graduate Standing. An analysis of
the role of courts as policymaking institutions and the law as policy. We
will explore the role of judges as policymakers, consider the attributes of
courts, (both trial and appellate) that make them appropriate yet limited
targets for advocates of reform, and the implementation and impact of
court decisions. We will consider recent examples of judicial involvement
in state and national policymaking. In addition, we will examine the role of
lawyers and interest groups in selecting litigation rather than alternative
political processes for policy change.

POL SCI 6425 Directed Readings And Research In Public Law: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6430 Proseminar In American Politics: 3 semester hoursStudy of individual and group political behavior including socialization, participation, consensus formation, representation, legislative and judicial behavior.

POL SCI 6431 Seminar In American Politics: 3 semester hoursResearch problems and design in American political process and behavior. May be repeated for credit when the subject matter is different.

POL SCI 6435 Directed Readings And Research In American Politics: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6440 Proseminar In Public Policy Administration: 3 semester hours

Examination of major approaches to analyzing public policies and their administration. Emphasis is on the effects of administrative organization and procedures on policy decisions and their impacts. Specific topics may include administrative accountability, inter-governmental relations, e public-private interaction, implementation of processes, bureaucratic expertise, the legal environment of public service and merit issues.

POL SCI 6442 The Policy Process: 3 semester hours

Prerequisite: Graduate Standing. The course will require a major research project using federal documents and other promary sources of information about the U.S. policy process. Topics will include the sources of public policy; the policy agenda; policy design, legetimation, and implementation.

POL SCI 6443 Health Care Policy: 3 semester hours

Same as P P ADM 6430, GERON 6443, and SOC WK 6443.

Prerequisites: Graduate Standing or consent of instructor. Survey course examining current issues in health policy that face the nation. Policies are placed in a historical context to show how issues have been influenced by different political and economic conditions. Secondary consequences and limitations of current trends in health policy are explored.

POL SCI 6444 Seminar In Public Policy And Aging: 3 semester hours Same as GERON 6444 and P P ADM 6444. Prerequisites: Consent of instructor. The study of specialized issues and methods related to federal, state, and local policies that affect the elderly. Potential policy areas to be covered include: housing, taxation, mental health, transportation, etc. May be repeated for credit, provided the subject matter is different.

POL SCI 6445 Directed Readings And Research In Public Administration: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6446 Selected Topics In Health Care Policy: 3 semester hours

Same as P P ADM 6460. Prerequisite: Consent of Instructor. The study of specialized issues and methods relating to health care policy. May be repeated for credit, provided the subject matter is different.

POL SCI 6448 Political Economy And Public Policy: 3 semester hours
Prerequisite: Graduate standing. This course examines political economy
in its contemporary manifestations as public choise and as the study
of the ways in which institutional power shapes economic policies and
performance. The course explores the origins and major concepts of
political economy, the institutions of economic policymaking and economic
policies in the U. S. It emphasizes the the consequences of budget
constraints inflation, unemployment and sectoral decline on the design and
administration of public programs at all levels of government.

POL SCI 6449 Human Resources In The Public Sector: 3 semester hours

Same as SOC WK 6449 and P P ADM 6490. Prerequisites: P P ADM 6600 or consent of Instructor. Presents an overview of personnel and labor relations in the public sector. Particular emphasis placed on issues which are unique to the public sector such as the merit system, the questions of representative bureaucracy and the constraints of personnel in the nonprofit sector. The topics include: personnel reforms in the federal sector, equal employment and affirmative action policies, testing, selection, hiring, comparable worth, job evaluation and labor relations including grievance arbitration and collective bargaining.

POL SCI 6450 Proseminar In Comparative Politics: 3 semester hours Classification and typology of political systems; structural-functional analysis; political culture, ideology, affiliation and participation; decision-making processes; political roles; organization of authority.

POL SCI 6451 Seminar In Comparative Politics: 3 semester hoursResearch problems and design in comparative politics. May be repeated for credit when the subject matter is different.

POL SCI 6452 Public Policy Of Conservation And Sustainable Development: 3 semester hours

Same as BIOL 6250. Prerequisites: Graduate standing in Political Science or Biology and consent of instructor. Prior course in ecology is recommended. This course will introduce the student to concepts and techniques for formulating, implementing, and analyzing public policy with an emphasis on environmental concerns, conservation, and sustainable development. The course will be team taught by a political scientist and a biologist. Course materials will include case studies that demonstrate the special problems of environmental policymaking in developing and developed economies.

POL SCI 6455 Directed Readings And Research In Comparative Politics: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6465 Directed Readings And Research In Political Theory: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6470 Proseminar In Urban Politics: 3 semester hours

Examination of the relationship between the social, economic and political systems of urban areas. Urban political structure, patterns of influence, political participation and communication and political change. Special attention to problems of access to and control of urban political systems.

POL SCI 6471 Seminar In Urban Politics: 3 semester hoursResearch problems and design in urban and regional politics. May be repeated for credit when the subject matter is different.

POL SCI 6475 Directed Readings And Research In Urban Politics: 1-10 semester hours

Independent study through readings, reports and conferences.

POL SCI 6480 Proseminar In International Relations: 3 semester hours

Examination of various approaches to the study of international politics snf foreign policy, focusing on studies of conflict, decision-making, international political economy, and related topics. Included are realist, idealist, and Marxist perspectives.

POL SCI 6481 Seminar In International Relations: 3 semester hoursResearch problems and design in international politics. May be repeated for credit when the subject matter is different.

POL SCI 6482 International Political Economy: 3 semester hours

Prerequisite: Graduate standing. This course will examine the theoretical and policy issues of international political economy. In particular, it will focus on the politics of international trade, finance and investment. It will also analyze the themes of interdependence, hegemony, and dependency, as well as consider relations between developed and developing countries. Finally, the relative usefulness of liberal, Realist and Marxist approaches to the study of international political economy will be weighed.

POL SCI 6485 Directed Readings And Research In International Relations: 1-10 semester hours

Independent study through readings, reports, research projects, and conferences.

POL SCI 6488 Studies In International Relations: 1-6 semester hours
PREREQUISITES: Graduate standing or permission of instructor.
Selected topics in international studies. May be repeated for credit
provided the topic of the course is different each time.

POL SCI 6490 Strategic & Program Planning For Nonprofit Organizations: 3 semester hours

Same as P P ADM 6550 and SOC WK 6491. Prerequisites: Graduate standing or consent of instructor. Strategic and program planning enable an organization to concentrate on efforts and set priorities guided by a mission, a vision, and an understanding of its environment. Focus is on preparing a strategic plan and a program plan for a nonprofit organization and analyzing an organization's ability to deliver goods and/or services to its constituents in today's economic, social and political climate.

POL SCI 6494 Thesis Research: 1-10 semester hours

POL SCI 6495 Internship: 1-6 semester hours

Independent study involving work with an appropriate public or private agency.

POL SCI 6499 Directed Dissertation Proposal Research: 3 semester hours

Prerequisites: Consent of Instructor. Supervised study through readings and research leading to the preparation of a dissertation proposal plan. Open to doctoral students who have completed at least 42 hours of course work. The proposal plan will indicate the following: statement of research question, importance of the problem, literature review and research design.

POL SCI 7499 Dissertation Research: 1-10 semester hours

Internship and Cooperative Education Positions

Internship/Cooperative Education Positions

Internships and Co-ops give students the opportunity to combine classroom studies with work experience in a field related to their education and career goals. These degree related positions offer students an excellent opportunity to gain professional job experience and earn money to help with expenses while in school. Through these opportunities, students begin to understand what career choices they might make, gain valuable contacts in their field, and, in many cases, get paid for their work. They graduate with a college degree and an impressive resume. Career Services and academic departments work with students and employers to ensure that positions are linked to curriculum and career development. These opportunities are available to UMSL students at all levels in all majors. Contact Career Services for more information at 516-5111, or visit 278 Millennium Center.

In addition to internships available through Career Services, internships and practica are available through many academic departments.

Academic advisors can provide information about the requirements for these experiences, some of which are summarized below.

College of Arts and Sciences Anthropology

ANTHRO 4325- ANTHRO 4329, Internship in Cultural Anthropology, Archaeology, Folklore, Museum Studies, Physical Anthropology - elective, for credit; placement with outside organizations; junior standing required. Positions available on competitive basis as lab and research assistants, teachers/facilitators, and interns/assistants - optional, noncredit.

The Human Origin and Cultural Diversity program offers internships in educational anthropology and diversity education.

Biology

BIOL 3699, Undergraduate Internship in Biotechnology - optional as part of certificate program, for credit or noncredit, enrollment in certificate program required.

BIOL 4299, Practicum in Conservation - required as part of certificate program, for credit, enrollment in certificate program required.

Chemistry and Biochemistry

Opportunities are available to pursue research with faculty members for credit during the academic year, normally while enrolled in CHEM 3905. Stipends may be available in some cases. Expanded opportunities are available in the summer through the Research Experience for Undergraduates Program, which is typically funded by the National Science Foundation and local industry. In some cases students may conduct CHEM 3905 research at a local company through collaborative arrangement between a faculty members and an industrial chemist.

Criminology and Criminal Justice

CRIMIN 3280, Internship in Criminology and Criminal Justice - elective, for credit.

Economics

ECON 4990, Internship in Applied Economics; not required; 3 hours maximum.

English

ENGL 4890, Independent Writing Project - internships offered in areas such as journalism, public relations, advertising, publishing, and technical writing; for credit, enrollment in Writing Certificate Program required.

Languages and Cultures

Paid, noncredit positions as tutors in language lab available on a competitive basis. Students of German can apply for summer noncredit internships abroad in the German-American Student Exchange Program at the Study Abroad Office.

History

HIST 4001, Special Readings - internships occasionally available with historical agencies; department chair and/or undergraduate coordinator must approve to obtain credit.

Mathematics and Computer Science

Career-related work arrangements for students majoring in math and/or computer science are primarily administered through Career Services located in 278 Millennium Student Center. These positions are paid and non-credit-bearing.

Physics and Astronomy

The department funds research internships in the department in both physics and astronomy. The awards are competitive, and preference is given to students who have completed the PHYSICS 2111/ PHYSICS 2112 sequence.

Political Science

POL SCI 3940 Public Affairs Internship - required, for credit, for bachelor of science in public administration program. It may also count as an elective, for credit, within the bachelor of arts in political science program and is open to all majors. Placements include municipal, state, and federal governmental agencies, nonprofit organizations, courts, and political campaign offices.

Psychology

PSYCH 3390, Research Assistant.

Social Work

SOC WK 4800 and SOC WK 4850, Supervised Field Experience in Social Work I and II - required, for credit, admission to B.S.W. program and prior consent of instructor are required.

Sociology

SOC 4385 Internship in Sociology - elective, for credit.

College of Business Administration

Career Services works in partnership with the College of Business Administration to assist students in securing career-related work arrangements for students majoring in all areas of business. These positions can be paid or unpaid and credit bearing or non-credit bearing. Those students choosing to receive academic credit through one of the courses listed below must contact the College of Business Administration Internship Coordinator in Room 469 SSB, by phone at 314-516-6117, or by email.

ACCTNG 3490	Internship In Accounting	1-3
BUS AD 3090	Internship In Business Administration	1-3
INTL BUS 3289	Practicum In International Business	3
BUS AD 3990	Internship In Business Law	1-3
FINANCE 3590	Internship In Finance	1-3
INFSYS 3890	Internship In Management Information Systems	1-3
LOG OM 3390	Internship In Logistics And Operations Management	1-3
MGMT 3690	Internship In Management	1-3
MKTG 3790	Internship In Marketing	1-3

College of Education

Internships (4989) are required for 3 hours credit for most undergraduate programs and Student Teaching (4990 and 4991) is required for 12 hours credit in all teacher certification programs. For more information, contact the Teacher Certification and Advising Office at Deborah_Ballard@umsl.edu or at 314-516-6710.

College of Fine Arts and Communication

Art

ART HS 3387, Professional Internship for Art History majors only elective, for credit.

ART HS 3388, St. Louis Art Museum Internship for Studio Art or Art History majors only – competitive position elective for credit.

Communication

COMM 4920, Practicum in Applied Communication

COMM 4950, Internship in Applied Communication

Media Studies

On-campus positions, as available:

MEDIA ST 1194	Practicum In Journalism	1-3
MEDIA ST 1196	Practicum In Radio	1-3
MEDIA ST 1197	Practicum In Television/Film	1-3
MEDIA ST 1198	Practicum In Media Studies	1-3
MEDIA ST 2095	Practicum In Advertising	1-3

Elective for credit, Senior standing, 3.0 GPA, and faculty recommendation required; off-campus positions:

MEDIA ST 3394	Internship In Journalism	3-6
MEDIA ST 3395	Internship In Advertising	3-6
MEDIA ST 3396	Internship In Radio	3-6
MEDIA ST 3397	Internship In Television/Film	3-6
MEDIA ST 3398	Internship In Media Studies	3-6

Music

PRACTM 4920, Internship – required, for credit, enrollment in bachelor of music business required. Department sponsored internships available for all majors at St. Louis area arts institutions.

Joint Engineering Program

UMSL/Washington University Joint Undergraduate Engineering Program career-related work arrangements for students majoring in all areas of engineering are primarily administered through Career Services. These positions are paid and non-credit-bearing.

College of Nursing

Clinical courses are required in both the undergraduate and graduate programs. These experiences are limited to nursing majors only.

Pierre Laclede Honors College

Internships chosen by Honors College students, or arranged by their major departments, are valuable opportunities to broaden educational experience while also meeting the honors independent study requirement for graduation. Visit Career Services, 278 Millennium Student Center, or call 314 516-5111 for more information on these programs and other work arrangements available.

Supporting Offices

Alumni Association

414 Woods Hall Phone: 314-516-5833 Fax: 314-516-5858 Email: alumni@umsl.edu

Website: http://www.umslalumni.org

Campus Testing Center

412 Social Sciences Building Phone: 314-516-6396 Fax: 314-516-7346 Email: assessctr@umsl.edu

Website: http://www.umsl.edu/services/css/Testing%20Center/index.html

Cashier's Office

285 Millennium Student Center

Phone: 314-516-5151 Fax: 314-516-5302 Email: cashiers@umsl.edu

Website: http://www.umsl.edu/cashiers/

English-as-a-Second Language/English for Academic Purposes

554 Clark Hall Phone: 314-516-6240

Website: http://www.umsl.edu/divisions/artscience/forlanglit/Languages/

esl.html

Information Technology Services

451 Express Scripts Hall Phone: 314-516-6000 Fax: 314-516-6007

Website: http://www.umsl.edu/technology/index.html

Institutional Safety (Police)

44 Campus Police Building Phone: 314-516-5155 Fax: 314-516-6536

Website: http://safety.umsl.edu/police/

Parking and Transportation

7700 Florissant Road Phone: 314-516-4190 Fax: 314-516-4197

Website: http://www.umsl.edu/~transportation/

ROTC

212 Clark Hall Phone: 314-516-7681 Fax: 314-935-6931 Email: rotc@umsl.edu

Website: http://www.umsl.edu/~umslrotc/index.html

Mathematics and Writing Academic Center

222 Social Sciences Building

Phone: 314-516-6863

Website: http://www.cs.umsl.edu/lab/mathlab.html

Website: http://www.umsl.edu/~umslenglish/Writing%20Lab/index.html

Science and Technology Academic Center

125 Stadler Hall

Website: http://www.umsl.edu/~stac/contactus.html

University Libraries

The Thomas Jefferson Library

Phone: 314-516-5060

Website: http://www.umsl.edu/services/library/index.html

St. Louis Mercantile Library

Phone: 314-516-7240

Website: http://www.umsl.edu/mercantile/

University Archives

220 Thomas Jefferson Library

Phone: 314-516-5129

Website: http://www.umsl.edu/services/library/university-archives/

index.htm

Ward E. Barnes Library

Phone: 314-516-5576

Website: http://www.umsl.edu/services/library/index.html

Student Affairs

Vice Provost for Student Affairs

301 Woods Hall Phone: 314-516-5211

Fax: 314-516-5221

Email: student_affairs@umsl.edu

Website: http://www.umsl.edu/studentlife/dsa/

Admissions

351 Millennium Student Center

Phone: 314-516-5451 / 1-800-462-8675

Fax: 314-516-5310

Email: admissions@umsl.edu

Website: http://www.umsl.edu/admissions/index.html

Athletics

Intercollegiate Sports 225 Mark Twain Building Phone: 314-516-5661 Fax: 314-516-5503

Website: http://www.umsltritons.com/

Campus Recreation

203 Mark Twain Building Phone: 314-516-5326

Website: http://www.umsl.edu/services/recsport/index.html

Career Services

278 Millennium Student Center

Phone: 314-516-5111 Fax: 314-516-6535

Email: careerservices@umsl.edu

Website: http://www.umsl.edu/depts/career/

Degree Audit Reporting System (DARS)

225 Millennium Student Center

Phone: 314-516-6815 Fax: 314-516-4725

Website: http://www.umsl.edu/services/dars/index.html

Disability Access Services

144 Millennium Student Center

Phone: 314-516-6554 TDD: 314-516-5212 Fax: 314-516-6561

Website: http://www.umsl.edu/services/disabled/

New Student Programs

366 Millennium Student Center

Phone: 314-516-5291 Email: orientation@umsl.edu

Website: http://www.umsl.edu/newstudentprograms

Precollegiate and Multicultural Student Services

107 Lucas Hall Phone: 314-516-5807 Fax: 314-516-6569

Email: multicultural@umsl.edu

Website: http://www.umsl.edu/~mcraa/index.html

Registrar

269 Millennium Student Center

Phone: 314-516-5545 Fax: 314-516-7096

Email: registration@umsl.edu

Website:http://www.umsl.edu/`register

Student Financial Aid

327 Millennium Student Center

Phone: 314-516-5526 Fax: 314-516-5408

Email: financialaid@umsl.edu

Website: http://www.umsl.edu/services/finaid/

Student Retention Services

225 Millennium Student Center

Phone: 314-516-5300 Fax: 314-516-4725 Email: umslsrs@umsl.edu

Website: http://www.umsl.edu/~umslsrs/

Student Life

366 Millennium Student Center

Phone: 314-516-5291 Fax: 314-516-6747

Email: studentlife@umsl.edu

Website: http://www.umsl.edu/studentlife/osl/index.html

University Bookstore and Triton Tech

Phone: 314-516-5763 Fax: 314-516-5770

Website: http://www.umslbookstore.com/

University Health, Wellness and Counseling Services

131 Millennium Student Center

Phone: 314-516-5671 Fax: 314-516-5988

Email: health_services@umsl.edu Website: http://www.umsl.edu/~uhwcs/

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