



1-1-2010

Graduate Catalog 2010-2011

Southwestern Oklahoma State University

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GRADUATE CATALOG

SWOSU
Southwestern Oklahoma State University

2010
2011





**Graduate Catalog
2010-2011**

**100 Campus Drive
Weatherford, Oklahoma
Phone: (580) 774-3769
FAX: (580) 774-7043
Web site: <http://www.swosu.edu>**

CURRICULA CHANGES

The University reserves the right to recommend changes in curricula, degree requirements, course offerings, and all academic regulations at any time. All changes must be approved by the Regional University System of Oklahoma (RUSO) and the Oklahoma State Regents for Higher Education. Certain program modifications reflected in this publication are pending approval.

The official graduate catalog can be found on the Southwestern Oklahoma State University Web site: <http://www.swosu.edu>.

FEE STRUCTURE

Fees listed in this catalog are those in effect at the time of publication and are subject to change. The current tuition/fee schedule may be viewed at <http://www.swosu.edu/Resources/tuition.asp>

DIRECTORY OF GRADUATE PROGRAMS AND CONTACT PERSONS

DEPARTMENT/PROGRAM

GRADUATE PROGRAM	COORDINATOR	OFFICE	TELEPHONE	E-MAIL
Master of Business Administration	Ms. Marci Grant	STF 301	(580) 774-7050	marci.grant@swosu.edu
Master of Education				
Art	Dr. Cliff McMahon	ART 222	(580) 774-6824	cliff.mcmahon@swosu.edu
Early Childhood Education	Ms. Ruth Boyd	EDU 102	(580) 774-3143	ruth.boyd@swosu.edu
Educational Administration	Dr. Mary Aspedon	EDU 123	(580) 774-3196	mary.aspedon@swosu.edu
Elementary Education	Ms. Ruth Boyd	EDU 102	(580) 774-3143	ruth.boyd@swosu.edu
Health and Physical Education	Dr. Vicki Hatton	HPE 10	(580) 774-3181	vicki.hatton@swosu.edu
Health Science and Microbiology	Dr. Gary Wolgamott	SCI 206	(580) 774-3079	gary.wolgamott@swosu.edu
English	Dr. Jill Jones	CAM 202A	(580) 774-3734	jill.jones@swosu.edu
Mathematics	Dr. Gerard East	CAM 309B	(580) 774-3053	gerard.east@swosu.edu
Natural Sciences	Dr. Joseph Maness	SCI 214B	(580) 774-3096	joseph.maness@swosu.edu
Parks and Recreation Management	Dr. Chad Kinder	EDU 121	(580) 774-3291	chad.kinder@swosu.edu
Reading Specialist	Ms. Ruth Boyd	EDU 102	(580) 774-3143	ruth.boyd@swosu.edu
School Counseling	Dr. Amy Barnett	PSY 117-7	(580) 774-3154	amy.barnett@swosu.edu
School Psychometry	Dr. Amy Barnett	PSY 117-7	(580) 774-3154	amy.barnett@swosu.edu
Social Sciences	Dr. Philip Holley	SCI 201A	(580) 774-3157	philip.holley@swosu.edu
Special Education	Ms. Ruth Boyd	EDU 102	(580) 774-3143	ruth.boyd@swosu.edu
Sports Management	Mr. Bo Pagliasotti	HPE 129A	(580) 774-7089	bo.pagliasotti@swosu.edu
Technology	Mr. Brad Bryant	TSB 108	(580) 774-3162	brad.bryant@swosu.edu
Master of Science				
Management	Ms. Marci Grant	STF 349	(580) 774-7050	marci.grant@swosu.edu
Community Counseling	Dr. Jorie Edwards	PSY 117-4	(580) 774-6052	jorie.edwards@swosu.edu
Master of Music				
	Dr. James South	FAB 100	(580) 774-3175	james.south@swosu.edu
	Dr. Dennis Widen	MUH 104	(580) 774-3216	dennis.widen@swosu.edu

University and Program Accreditations

<i>ACCREDITING ORGANIZATION</i>	<i>PHONE NUMBER/FAX NUMBER/WEB SITE/E-MAIL ADDRESS</i>	<i>ADDRESS</i>
ACCREDITATION COUNCIL FOR PHARMACY EDUCATION	Phone: (312) 664-3575 FAX: (312) 664-4652	20 North Clark Street, Suite 2500 Chicago, Illinois 60602-5109
ACCREDITATION COUNCIL ON OCCUPATIONAL THERAPY EDUCATION	Phone: (301) 652-2682 FAX: (301) 652-7711 E-mail: accred@aota.org	P.O. Box 31220 Bethesda, Maryland 20824-1220
ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS	Phone: (703) 917-9503 E-mail: info@abhes.org	7777 Leesburg Pike, Suite 730 Falls Church, Virginia 22043
AMERICAN CHEMICAL SOCIETY COMMITTEE ON PROFESSIONAL TRAINING	Phone: (202) 872-4589 FAX: (202) 872-6066 Web site: http://www.acs.org E-mail: cpt@acs.org	1155 16 th Street, N.W. Washington, D.C. 20036
AMERICAN MUSIC THERAPY ASSOCIATION, INC.	Phone: (301) 589-3300 FAX: (301) 589-5175 Web site: http://www.musictherapy.org E-mail: amta@musictherapy.org	8455 Colesville Road Suite 1000 Silver Springs, Missouri 20910
ASSOCIATION OF TECHNOLOGY, MANAGEMENT, AND APPLIED ENGINEERING (ATMAE)	Phone: (734) 677-0720 FAX: (734) 677-0046 Web site: http://www.nait.org E-mail: nait@nait.org	3300 Washtenaw Avenue – Suite 220 Ann Arbor, MI 48104-4200
COMMISSION ON ACCREDITATION FOR HEALTH INFORMATICS AND INFORMATION MANAGEMENT EDUCATION (CAHIIM)	Phone: (312) 233-1183 FAX: (312) 553-9616 Web site: http://www.cahiim.org	233 North Michigan Avenue Chicago, Illinois 60601-2208
COMMISSION ON ACCREDITATION IN PHYSICAL THERAPY EDUCATION	Phone: (703) 684-APTA (2782) FAX: (703) 684-7343 E-mail: http://www.apta.org	1111 North Fairfax Street Alexandria, Virginia 22314
COMMISSION ON ACCREDITATION OF ATHLETIC TRAINING EDUCATION	Phone: (512)-733-9700 Web-site: http://www.caate.net FAX: (512) 733-9701	2201 Double Creek Drive, Suite 5006 Round Rock, TX 78664
COUNCIL ON SOCIAL WORK EDUCATION	Phone: (703) 683-8080 FAX: (703) 683-8099 Web site: http://www.cswe.org	1725 Duke Street, Suite 500 Alexandria, Virginia 22314-3457
INTERNATIONAL ASSEMBLY FOR COLLEGIATE BUSINESS EDUCATION	Phone: (913) 631-3009 FAX: (913) 631-9154 Web site: http://www.iacbe.org E-mail: iacbe@iacbe.org	P.O. Box 25217 Overland Park, Kansas 66225
JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)	Phone: (312) 704-5300 FAX: (312) 704-5304	20 North Wacker Drive, Suite 900 Chicago, Illinois 60606-2901
NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC	Phone: (703) 437-0700 FAX: (703) 437-6312 Web site: http://www.art-accredit.org E-mail: info@art-accredit.org	11250 Roger Bacon Drive, Suite 21 Reston, Virginia 20190
NATIONAL COUNCIL FOR THE ACCREDITATION OF TEACHER EDUCATION	Phone: (202) 466-7496 FAX: (202) 296-6620	2010 Massachusetts Avenue, N.W. Suite 500 Washington, D.C. 20036-1023
NATIONAL LEAGUE FOR NURSING ACCREDITING COMMISSION	Phone: (800) 669-1656 ext. 362 FAX: (212) 812-0390 Web site: http://www.nlnac.org E-mail: rdesantis@nlnac.org	61 Broadway 33 rd Floor New York, New York 10006
OKLAHOMA BOARD OF NURSING	Phone: (405) 962-1800 FAX: (405) 962-1821 Web site: http://www.youroklahoma.com/nursing	2915 N. Classen Boulevard, Suite 524 Oklahoma City, Oklahoma 73106
OKLAHOMA COMMISSION FOR TEACHER PREPARATION (OCTP)	Phone: (405) 525-2612 FAX: (405) 525-0373 Web site: http://www.octp.org E-mail: octp@octp.org	4545 N. Lincoln Blvd., Suite 275 Oklahoma City, Oklahoma 73105-3418
OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION	Phone: (405) 225-9100 FAX: (405) 225-9235 Web-site: http://www.okhighered.org/	655 Research Parkway, Suite 200 Oklahoma City, OK 73104
TECHNOLOGY ACCREDITATION COMMISSION (TAC) OF ABET	Phone: (410) 347-7700 FAX: (410) 625-2238 Web site: http://www.abet.org	111 Market Pl., Suite 1050 Baltimore, Maryland 21202
THE HIGHER LEARNING COMMISSION NORTH CENTRAL ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS (NCA)	Phone: (800) 621-7440 FAX: (312) 263-7462	30 North LaSalle Street, Suite 2400 Chicago, Illinois 60602-7462

AMERICANS WITH DISABILITIES ACT AMENDMENTS ACT

The Americans with Disabilities Act Amendments Act (ADAAA) requires the provision of "reasonable accommodations" to those qualified individuals with disabilities by providing equal, non-discriminatory program access in the academic setting.

Students need to take the verifying documentation to the Dean of Students Office, where it will be kept confidential and private to the extent possible. In most cases, verifying documents can be obtained from doctors, licensed psychologists or other professionals licensed to determine the existence, severity of and characteristics of the disability or disabilities. This documentation should include the functional impact of the disability or disabilities. It is the student's responsibility to request documentation from such professionals, and to request a record of accommodations received at any other educational institution. Appropriate documentation for learning disabilities should be provided with adult norms; typically assessment during high school years will meet this requirement. If accommodations are needed by the student, the student should provide the information and documentation in a reasonably early manner after admission to allow time for the development and arrangement of appropriate accommodations. In some cases, as when books on tape or sign language interpreters need to be requested, documentation should be provided several weeks prior to the beginning of each semester so accommodation arrangements can be made in a timely manner. A copy of Southwestern Oklahoma State University's documentation guidelines are on the Dean of Students' website or office, room 214, Gen. Thomas P. Stafford Center, (580) 774-3767.

AFFIRMATIVE ACTION COMPLIANCE STATEMENT

Southwestern Oklahoma State University in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans With Disabilities Act Amendments Act of 2009, and other Federal laws and regulations does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, and educational service.

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THE UNIVERSITY

HISTORICAL BACKGROUND

Southwestern Oklahoma State University at Weatherford is located in Weatherford, 70 miles west of Oklahoma City. The University is authorized to offer curricula in arts and sciences, business, teacher education, and health sciences. A branch campus at Sayre is authorized to provide Associate of Science and Associate of Applied Science degrees in both general and specialized areas of study, as well as career and technical education.

The University was established by an act of the Oklahoma Territorial Legislature in 1901 as the Southwestern Normal School, authorized to offer two years of training for public school teachers. The first classes met in 1903. Initially, four years of preparatory work for pre-college students were offered.

In 1920, the preparatory (academy) courses were eliminated and two additional years of college work in teacher training were added. The State Legislature approved a change of name to Southwestern State Teachers College. The first baccalaureate degrees were awarded in May 1921. Other changes in name and purposes occurred in 1939 when the institution was designated as Southwestern State College of Diversified Occupations, and in 1941, when it became Southwestern Institute of Technology. During this two-year period, the college added a school of pharmacy, degree work in the arts and sciences, and trade schools.

In 1949, the Oklahoma State Legislature changed the name of the institution to Southwestern State College, and in 1974, to Southwestern Oklahoma State University, without altering its purposes and objectives. On July 1, 1987, Sayre Junior College was merged with Southwestern Oklahoma State University as a branch campus designated Southwestern Oklahoma State University at Sayre.

Southwestern Oklahoma State University at Sayre was founded as Sayre Junior College in 1938 under legislative authorization which permitted public high schools to add a 13th and 14th year of study to their curricula. Nineteen public schools took this step. In 1940, the college name was changed to Oklahoma Western Junior College; however, the original name was soon adopted again, and in May 1940 the first degrees were conferred. In 1956, Sayre Junior College moved from facilities occupied jointly with Sayre High School to its present location on old Highway 66. The merger with Southwestern Oklahoma State University marked the end of the Oklahoma

community college system, since Sayre Junior College was the only such institution remaining of the original nineteen.

The Sayre campus is located 60 miles west of the Weatherford campus on Interstate 40. It serves western Oklahoma and the Texas panhandle within a 60-mile radius of Sayre. It offers open admission to high school graduates as well as to students who do not hold a high school diploma.

Southwestern Oklahoma State University offers four advanced degrees. The Master of Education degree was inaugurated in 1969. (The Master of Teaching Degree was offered during the period 1953-1969.) Graduate programs leading to the following degrees have been added since 1969: Master of Business Administration, 1977; Master of Music, 1981; a professional doctorate, the Doctor of Pharmacy (PharmD), 1998; Master of Science in Management, 2008; and Master of Science in Community Counseling, 2009 .

MISSION AND PURPOSES

Southwestern Oklahoma State University is one of twenty-five institutions in the Oklahoma State System of Higher Education (Oklahoma Constitution, Article XIII-A, Section 1). The Oklahoma State Regents for Higher Education is the legal structure for public education at the collegiate level and is the coordinating board of all state institutions for higher education. Southwestern is one of six state supported regional universities governed by the Regional University System of Oklahoma. Southwestern Oklahoma State University provides access to higher education for all individuals without discrimination on the basis of race, national origin, gender, or disability status.

The mission of Southwestern Oklahoma State University is to provide educational opportunities in higher education that meet the needs of the state and region; contribute to the educational, economic, and cultural environment; and support scholarly activity. Major areas of study on the Weatherford campus, associate degree programs on the Sayre campus, the general education curriculum, and participation in student activities/organizations provide opportunities for students to obtain skills, knowledge, and cultural appreciation that lead to productive lives and effective citizenship.

The mission and the purposes of the University are accomplished through the following:

- Ensuring quality education, the University recruits qualified faculty without regard to national origin, race, gender, disability, age or religion. Faculty growth opportunities are provided through an organized faculty development program. Excellence in teaching, scholarship, and service are encouraged and recognized. An organizational and intellectual environment is provided that insures freedom of individual expression and inquiry, provides representative governance for all members of the University community, and promotes student/faculty interaction. An assessment program provides the basis for continuous evaluation and program improvement.
- Meeting its commitment to student development, the University recruits qualified students without regard to national origin, race, gender, disability, age, or religion and provides a community that encourages participation in intellectual and physical activities and leadership development. A curriculum is provided that develops communication and analytical skills; a comprehension of the arts, humanities, and cultural diversity; and knowledge of the scientific/technological world and of our historical heritage. Student orientation, advisement, enrichment, and participation in organizations and activities contribute to student growth and development.
- Fulfilling its role as a cultural and educational resource for western Oklahoma, the University provides distance learning opportunities, continuing education associated with career enhancement, personal development, and cultural growth. Performances, exhibitions, and research that enhance knowledge and enrich society are supported and services to communities are provided through academic departments and other university agencies.

Southwestern Oklahoma State University at Sayre enables the university to focus its mission to provide lower division programs and educational opportunities in higher education.

The following institutional functions have been approved by the Oklahoma State Regents for Higher Education, and are considered essential components of the mission on the Sayre campus:

- To provide a lower division program of higher education for traditional and non-traditional students in Western Oklahoma and the Texas Panhandle.
- To provide a general education that enables students to become informed responsible citizens.
- To provide programs of education in the liberal arts and sciences leading to the Associate in Science degree through campus-based and distance learning.
- To provide career and technical programs to enable students to seek employment in various job fields, with completion of such programs culminating in the awarding of the Associate in Applied Science degree or an appropriate certificate.
- To provide transfer programs which include liberal arts, sciences, and pre-professional subjects, thus enabling students to pursue completion of baccalaureate or professional degrees at four-year colleges and universities.
- To provide courses, services, and programs in remedial education for individuals who require such assistance in order to function effectively at the collegiate level.
- To provide guidance services and a program of student activities for the promotion of personal development and effective citizenship.

The University's academic organization includes colleges of Arts and Sciences, Associate and Applied Programs-Sayre Campus, Pharmacy, and Professional and Graduate Studies. Each of these entities and their subdivisions establish specific objectives that contribute to the achievement of University objectives.

UNIVERSITY ADMINISTRATION

Mr. Randy Beutler	President
M.Ed., Southwestern Oklahoma State University	
Dr. Blake Sonobe	Senior Vice President and Provost
Ph.D., University of California, Davis	
Mr. Tom Fagan	Vice President for Administration and Finance
M.B.A., Southwestern Oklahoma State University	
Dr. Cynthia Foust	Vice President for Student Affairs and Associate Provost
Ph.D., Texas Woman's University	
Mr. James Waites	Vice President for Institutional Advancement
M.Ed., Southwestern Oklahoma State University	
Mr. Chad Martin	Director of Residence Life
M.Ed., Southwestern Oklahoma State University	
Mr. Daniel Archer	Registrar
M.S., Oklahoma State University	
Ms. Brenda Burgess	Director of Business Affairs/Comptroller
M.B.A., Southwestern College, Kansas	
Mr. David G. Clark	Bursar
B.S., Southwestern Oklahoma State University	
Mr. Todd Boyd	Director of Admissions
M.Ed., Southwestern Oklahoma State University	
Mr. Brian Adler	Director of Public Relations and Marketing
B.A., University of Oklahoma	
Dr. Jon Sparks	Director of Library
Ph.D., Nova Southeastern University, Florida	
Mr. Jerome Wichert	Director of Student Financial Services
M.A., University of Central Oklahoma	

DEANS, ASSOCIATE DEANS AND DEPARTMENT CHAIRS

COLLEGE OF ARTS AND SCIENCES

Dean, Dr. Radwan Al-Jarrah
SCI 210

Department of Art , Dr. Cliff McMahon	ART 222
Department of Biological Sciences , Dr. Joseph Maness, Chair	SCI 214-B
Department of Chemistry and Physics , Dr. William Kelly, Chair	CPP 202-A
Department of Communication and Theatre , Dr. Robin Jones, Chair	CAM 126-B
Department of Language and Literature , Dr. Jill Jones, Chair	CAM 202-A
Department of Mathematics , Dr. Michael Dougherty, Chair	CAM 302
Department of Music , Dr. James South, Chair	FAB 100
Department of Social Sciences , Dr. Philip Holley, Chair	SCI 201-A

COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

Dean, Dr. Ken Rose
EDU 104

School of Allied Health Sciences , Dr. Gary Wolgamott, Associate Dean	SCI206-B
School of Behavioral Sciences and Education , Dr. Chad Kinder, Associate Dean	EDU 121
Department of Education , Ms. Ruth Boyd, Interim Chair	EDU 102
Department of Kinesiology , Dr. Vicki Hatton, Chair	HPE 10
Department of Parks and Recreation Management , Dr. Chad Kinder, Chair	EDU 121
Department of Psychology , Dr. James Hunsicker, Chair	PSY 125
School of Business and Technology , Dr. Les Crall, Associate Dean	STF 335
Department of Accounting, Computer Science, and Entrepreneurship Dr. Patsy Parker, Chair	STF 345
Department of Finance, Management and Marketing , Dr. Elizabeth Ferrell, Chair	STF 354
Department of Engineering Technology , Mr. Brad Bryant, Chair	TSB 108
School of Nursing , Dr. Barbara Patterson, Associate Dean	STE B2

COLLEGE OF PHARMACY

Dean, Dr. L. Douglas Ried
CPP 301-C

Associate Dean, Dr. David Ralph	CPP 303-A
Pharmaceutical Sciences, Dr. Scott Long	CPP 382
Pharmacy Practice, Dr. Dennis Thompson, Associate Dean & Chair	Pasteur Bldg OKC

UNIVERSITY INFORMATION

Research Facilities

Southwestern Oklahoma State University possesses supporting facilities for learning and research. The Al Harris Library has 275,000 bound volumes and subscribes to 1,400 periodicals. The collection is expanded by one million microform units. The library is both a U.S. Government and state document depository and has 40,000 U.S. government documents. The library provides access to several electronic databases and to the Internet. The library provides electronic access to SWOSU's catalog and to other university library catalogs in Oklahoma and throughout the world. Additional facilities on campus include a computer center; microcomputer labs; various tele-learning resources; research laboratories in mathematics, physics, chemistry, biology, pharmacy, psychology, business, health sciences, educational administration; and a music library.

Financial Services

Students who need financial assistance should contact Student Financial Services (STF 224, 580-774-3786) to determine eligibility for assistance. Most financial assistance at the graduate level is limited to individuals who are enrolled at least as half-time students and who can demonstrate a financial need. Eligible students may apply for student loans and work study. Graduate assistantships are available through academic departments.

Veterans Affairs

The University is approved for the training of veterans of the military service under education assistance established by the Federal Government and administered by the Veterans Administration. The V.A. Education Programs are coordinated through the Office of the Registrar (Adm 108, 580-774-3778).

Housing and Food Service

Room and board is available in University residence halls. Applications for campus housing and information about University housing may be obtained from the Residence Life Office (southwest corner of Neff Hall, 580-774-3024).

Admission Policy

Southwestern Oklahoma State University takes into account the following nonacademic criteria in admitting first-time, transfer or readmission students: (a) whether applicants have been expelled, suspended or denied admission, or denied readmission by any other educational institution; (b) whether the applicants have been convicted of a felony or convicted of a lesser crime involving moral turpitude; and (c) whether the applicant's conduct has been such that if the applicant was a student at the time of the conduct in question, the conduct would have been grounds for expulsion, suspension, dismissal, or denial of readmission at the university.

Tuition and Fees

Tuition and other fees are established by the Oklahoma State Regents for Higher Education. **The charges listed in this catalog are those in effect at the time of publication and are subject to change** (refer to academic schedule for current fees). A student's registration is complete only when all fees are paid or when payment arrangements have been made with the Business Office (ADM 111, 580-774-3018).

Graduate School Tuition*:	Resident*	Non-Resident*
1000 - 4000 level courses	\$144.50 per credit hour	\$335 per credit hour
5000 level courses	\$170 per credit hour	\$400 per credit hour

Special Fees:

ACT Residual Fee (per exam)	\$40.00
Application Fee	\$15.00
Electronic Media (per credit hour)	\$5.00
Music Lesson Charge (per credit hour for private lessons)	\$75.00
(per credit hour for semi-private lessons)	\$35.00
Nursing (per credit hour)	\$55.00
Electronic Media Fee (telecourses, per credit hour)	\$5.00
(in addition to tuition cost per credit hour)	
Off-Site Interactive Video Course Fee (per course)	\$20.00
Parking	\$25.00
Remedial Course (per credit hour)	\$40.00
Supplies	Varies by department
(applies to some Art, Biology, Chemistry, Computer, and P.E. classes; fee is in lieu of supplies being purchased by student)	
Web-Based Course Fee (per credit hour)	\$20.00
Pharmacy Software (per Fall/Spring Semester)	\$35.00

***Tuition rates include the following mandatory fees per credit hour:**

Student Activity Fee - \$9.50; Facility Fee - \$7.50; Technology Service Fee - \$9.00; Event Center Fee - \$5.00

****Students with a 3.0 undergraduate grade point average (GPA) are eligible for resident tuition. Students must maintain a 3.0 graduate GPA to continue their eligibility.**

Non-resident tuition waivers for international students will not exceed 2.5 percent of the total number of graduate students enrolled at the University. Furthermore, eligible students will meet both of the following conditions:

- Admission into a degree program;
- Maintaining acceptable academic standards (i.e. ≥ 3.0 cumulative GPA).

Refunds:

The refund policy is established by the Oklahoma State Regents for Higher Education. The refund procedure for total withdrawal is initiated in the Registrar's Office. Students will receive 100 percent refund for total withdrawal before the first day of class. The Regents' policy is in effect after classes begin.

Students will receive 85 percent refund for individual courses dropped during the first two weeks of class. No refunds will be made after this date. Contact Registrar's Office (ADM 108, 580-774-3778) for further information.

Placement Services

Placement Service is available at Southwestern Oklahoma State University to all graduating seniors, graduate students, and alumni. Individuals may file credentials, obtain job information, and schedule campus employment interviews at Career Services, (580) 774-3233. Information concerning job openings in business, industry, government, and education is available upon request.

Release of Information

Southwestern Oklahoma State University complies with all provisions of the Family Educational Rights and Privacy Act of 1974. The administration of educational records at SWOSU is consistent with provisions of the Act.

ACADEMIC/ADMISSION POLICIES

Admission to Graduate Degree Program

1. A bachelor's degree from a college or university accredited by a regional accrediting association is required.
 2. Submit an application for admission or readmission to the University, and provide proof of required immunizations submitted to Student Health Services.
 3. Students should submit an application for admission to Graduate Studies.
 4. Official transcript(s) of all credit earned should be submitted.
 5. A student for whom English is a second language wishing to be considered for admission must provide results of TOEFL with a minimum score of 550 or IELTS with a minimum score of 6.5.
 6. An international student must complete a Certification of Financial Resources Form showing sufficient resources to provide for the student's entire program of study and living expenses while at Southwestern Oklahoma State University. A minimum deposit of \$1,500 is required. The student must also provide evidence of health insurance.
 7. Refer to the specific degree program for GRE or GMAT requirements and other admission criteria.
 8. Submit letters of recommendation or recommendation forms as required by individual degree programs.
 9. When completed credentials are on file with the Graduate Office, the file will be evaluated by the program's admissions committee to determine admissibility to a graduate program.
 10. All application materials must be submitted by the following deadlines in order to be considered for admission that semester.
 - Spring Semester Admission – November 1st
 - Summer Semester Admission – April 1st
 - Fall Semester Admission – July 1stApplications submitted after these deadlines will not be considered until the following semester.
- **SWOSU students who plan to graduate with a bachelor's degree in a given semester may be considered for admission for the following semester if all admission materials (other than an official transcript) are submitted prior to the appropriate deadline.**
11. Incomplete application files will not be kept longer than two years.
 12. Specific admission requirements for each program are found on their program pages.

GENERAL INFORMATION

Seniors and Graduate Study

A senior student may enroll in a maximum of **nine (9)** graduate hours during the final undergraduate year if a full course load is not required to complete requirements of the bachelor's degree. The total undergraduate and graduate enrollment should not exceed sixteen (16) hours during a semester and nine (9) hours during a summer term. Graduate work may not be used to meet undergraduate requirements, but it may be applied toward professional certification in some instances.

Graduate Tuition Waiver

Students who meet the following criteria and wish to be considered for a Graduate Tuition Waiver must complete and turn in to the Graduate Office a Tuition Waiver application and supporting documents. The Graduate Tuition Waiver will pay tuition only for up to six (6) hours.

1. Admission to a Graduate Program
2. Have completed graduate coursework at SWOSU
3. Currently enrolled in a minimum of six (6) graduate hours
4. Minimum of 3.50 GPA
5. Must be an Oklahoma resident

The deadlines for application submissions are: Summer – April 1, Fall – July 1, Spring – November 1. Applications will not be held for future semesters. Incomplete applications will not be considered.

Advisement and Enrollment

Each student admitted to a degree program is assigned an advisor in his/her major area of interest when the application for admission to a graduate program is approved. Advisors are available to assist students with enrollments and to provide general program information. **The student, however, has the final responsibility of insuring that program requirements are met.** Exceptions to requirements outlined in the *Graduate Catalog* must be approved by the advisor, chair, associate dean (where applicable), the dean of the academic unit, and the Graduate Dean.

Graduate students may enroll on any of the enrollment dates or during regular registration listed in the class schedule (located on the SWOSU website www.swosu.edu) by calling the Registrar's Office (580-774-3008).

Academic Load

Standard Term: Any course(s) that meets a full 16 weeks during the fall and spring semesters and 8 weeks for the summer. All *full-time students* are enrolled in a minimum of nine (9) hours per semester and four (4) hours during a summer term. *Three quarter-time students* are enrolled in a minimum of seven (7) hours per semester and three (3) hours during a summer term. *Half time students* are enrolled in a minimum of five (5) hours per semester and two (2) hours during a summer term.

Non-Standard Term: Any term that does not meet the 16 week requirement stated above. All full-time students are enrolled in a minimum of four (4) hours per eight (8) week classes and two (2) hours per 4 week term. Three quarter-time students are enrolled in a minimum of three (3) hours per eight (8) week classes and one point five (1.5) hours per 4 week term. Half time students are enrolled in a minimum of two (2) hours per eight (8) week classes and one (1) hour per 4 week term.

Enrollments that exceed sixteen (16) hours during the fall and spring semester and nine (9) hours during the summer term are exceptions and must be approved by the advisor and Graduate Dean. Additional credit may be earned via interim courses.

Course Numbering

5000 level Business courses may be taken only by M.B.A. graduate students. Courses at the 3000 and 4000 level, which are identified by an asterisk in the class schedule, are dual enrollment courses open to most graduate and upper-division undergraduate students. The courses may be used to meet requirements of a graduate degree if part of an approved program. The student must indicate at the time of enrollment if s/he wants a course for graduate credit. Members of the faculty differentiate between the work of graduate and undergraduate students in 3000 and 4000 level courses. Courses completed for undergraduate credit may not be repeated for graduate credit nor can the same class count toward undergraduate and graduate requirements.

Grading System

A grade is given as recognition of certain levels of accomplishment in a course and is to be interpreted as follows:
Graduate Courses—

A (4.0), Excellent	D (1.0), not acceptable toward a	S (0.0), Satisfactory
B (3.0), Average	degree	U (0.0), Unsatisfactory
C (2.0), Below Average	F (0.0), Failure	

Incomplete—An incomplete grade may be used at the instructor's discretion to indicate that additional work is necessary to complete a course. To receive an "I" grade, the student should have satisfactorily completed a substantial portion of the required coursework for the semester. The time limit to satisfy the "I" will be at the discretion of the instructor. "I" grades not changed by the instructor to a credit-bearing grade or an "F" within the specified time limit will remain as a permanent "I" and not contribute to the student's GPA.

Withdrawal—Students may withdraw during the first eleven (11) weeks of class work in a regular semester or during the first four weeks of class in a summer semester and receive a grade of "W." Students may also withdraw officially any time prior to and including Friday of the week before final examinations begin and receive a "W" for courses in which they are doing passing work. Students who withdraw from a course in which they are failing will receive an "F" if the withdrawal occurs during the last five weeks of a regular semester or the last four weeks of a summer semester. Students who leave school without officially withdrawing will receive grades of "F" for courses in which they were enrolled. A grade of "W" has no effect on a student's grade-point average.

Repeated Courses—When a course is repeated, both grades are used in computing the grade-point average, but only one course may be applied toward degree requirements.

Retention

A minimum graduate grade point average of 3.0 (B) is required in all master's degree programs. No grade lower than a "B" on applied music courses will be accepted toward requirements of the Master of Music degree. A maximum of six semester hours of "C" may be applied toward requirements of the Master of Business Administration, Master of Science in Management, and the Master of Education degrees.

After being admitted to a graduate program, a student will be placed on academic probation if the graduate grade point average falls below 3.0 (B) after the completion of twelve (12) semester hours, including transfer credit. During the first probation semester, a student must have a cumulative GPA and/or semester GPA of 3.0. If neither the cumulative nor semester GPA is a 3.0, the student will be allowed to register only as a part-time student (i.e., a maximum of five hours and three hours during the regular and summer term, respectively) until a cumulative GPA of 3.0 is achieved. If a student during a second semester of probation does not earn a 3.0 semester average, s/he will be dismissed from their graduate program. An academic reprieve is not applicable to graduate programs.

Transfer of Credits

A maximum of **nine (9)** applicable semester hours of graduate credit from accredited colleges and universities may apply toward requirements of a graduate degree at Southwestern Oklahoma State University (SWOSU). Only coursework with grades of "A" and "B" is eligible for transfer. **All applicable graduate credit earned at SWOSU prior to admission into a degree program is considered as transfer credit.**

Unclassified Graduate Students

Students who have previously completed a Master's Degree at Southwestern, or who do not wish to pursue a graduate degree, may be admitted as unclassified graduate students. These students must follow the graduate studies admission procedures. A maximum of nine hours taken as an unclassified student may transfer into a degree program. The nine-hour transfer policy includes any hours taken at another university, as well as hours taken at SWOSU before admission to a degree program.

Unclassified graduate students in the School of Business will be permitted to enroll in up to 9 hours of graduate classes provided their undergraduate GPA is at least 3.0. School of Business students will not be allowed to enroll in more than 9 hours without being formally admitted to the MBA/MS program. For more information contact the MBA Advisor.

Degree Completion Time

Graduate courses taken more than six (6) years prior to graduation do not count toward the total number of credit hours required for a master's degree. Courses that are more than six (6) years old may count as degree requirements as recommended by the academic unit in which the master's degree is offered and approved by the Graduate Dean.

Individual Study/Directed Reading

Graduate students may enroll in an individual study in areas not available in conventional classes. A maximum of **six (6) semester hours** of individual study may be applied toward requirements of the master's degree upon approval of advisor.

Candidacy for the Master's Degree

Admission to graduate studies and to a degree program is not the equivalent of Admission to Candidacy for the master's degree. It is the responsibility of the student to initiate the application for Admission to Candidacy after the completion of 24-30 semester hours. The candidacy form must be submitted to the Graduate Office no later than the first Monday after close of the drop/add date each semester (13th day of the Fall or Spring semester, or 10th day of the Summer Semester). The degree candidacy form is to be completed by the student in consultation with his/her major advisor and forwarded to the Graduate Office. The degree candidacy form must include **only** the courses that apply to the graduate degree program.

Application for Graduation

Candidates for the master's degree are responsible for filing an application for graduation with the Registrar. Students are strongly encouraged to file this application during the first two weeks of the semester in which they plan to graduate.

Non-Discrimination Policy

Southwestern Oklahoma State University in compliance with Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 503 of the Rehabilitation Act of 1973, Section 402 of the Readjustment Assistance Act of 1974, Americans With Disabilities Act of 1990, and other Federal laws and regulations does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial assistance, and educational service.

GRADUATE PROGRAM CHECKLIST

Sequential Steps to Be Followed in a Master's Degree Program -- A Self-Help Guide—

1. Admission to Graduate Degree Program

- ✓ File Application for Admission or readmission to the University with the Registrar (not required of students enrolled at SWOSU during the previous year).
- ✓ File health history and submit proof of required immunizations to Student Health Services.
- ✓ File Application for Admission to Graduate Studies with the Graduate Office.
- ✓ Provide official transcript(s) of all previous college work not already on file with the Registrar at SWOSU.
- ✓ Provide other credentials (GRE or GMAT scores, references, etc.) as required by the degree program for which you are applying.
- ✓ Submit Portfolio – M.Ed. in Educational Administration requires an e-portfolio; M.Ed. in School Counseling and M.Ed. in School Psychometry—(requires a paper portfolio) – see advisor or department contact person for more information.

2. Following Admission to a Degree Program

- ✓ Meet with your advisor during your semester of admission and complete a Plan of Study.
- ✓ Enroll or pre-enroll on enrollment dates listed in the class schedules.

3. Admission to Degree Candidacy

- ✓ With the assistance of your advisor, complete an Application for Admission to Candidacy after the completion of 24-30 semester hours of graduate work. Obtain appropriate signatures and submit Candidacy form to the Graduate Office. The completed/signed form must reach the Graduate Office by the first Monday after the close of the drop/add date of the semester in which you intend to graduate (13th day of the Fall or Spring semester, or 10th day of the Summer Semester).
- ✓ Master of Education and Master of Science in Community Counseling students must take the Capstone Experience during their final semester (with the exception of certain programs-check program pages for details). Students must enroll in the Capstone Experience class, complete the Registration Form, and turn the form in to their advisor. Each M.B.A. graduate must complete

- ✓ the Educational Testing Service (ETS) Major Field Test in Business during their last semester of their M.B.A. program.
- ✓ File an Application for Graduation with the Registrar. This application should be submitted to the Registrar's Office during the first two weeks of the semester in which the student expects to graduate.
- ✓ Pick up a cap and gown at University Bookstore.

4. Summary Checklist

- ✓ Required number of semester hours for the degree.
- ✓ All required courses completed.
- ✓ An overall grade point average of at least 3.0 (B) on graduate work.
- ✓ The Master of Music degree program with no *Applied Music* grades below "B" that count toward degree requirements.
- ✓ No grades below "C" applied toward degree requirements.
- ✓ Not more than six (6) semester hours of "C" applied toward the degree.
- ✓ Not more than six (6) semester hours of individual study/directed reading applied toward the degree.
- ✓ No correspondence study credit applied toward the degree.
- ✓ Graduate credits completed beyond six (6) years not applicable for semester hours required but may meet course requirements in a degree program.
- ✓ Not more than nine (9) approved semester hours of transfer credit. This includes courses from accredited institutions, as well as courses taken at SWOSU, prior to admission into a degree program. **Only courses with a grade of "A" or "B" may be transferred.**

GRADUATE COUNCIL

Dr. Ken Rose, (Chair)

MEMBERSHIP

Dr. Chad Kinder

Dr. Mary Aspedon

Dr. Amy Barnett

Dr. Dennis Widen

Dr. Les Crall

Graduate Student Representatives (2)

COLLEGE

College of Professional and Graduate Studies

College of Professional and Graduate Studies

College of Professional and Graduate Studies

College of Arts and Sciences

College of Professional and Graduate Studies

MASTER OF BUSINESS ADMINISTRATION DEGREE (Code No. 860)

The Master of Business Administration degree is accredited by the International Assembly for Collegiate Business Education. It is designed for those who

- desire an immediate continuation of an advanced program in business commensurate with their career objectives,
- desire an updating of their professional training,
- desire advanced specialized experiences to anticipate and solve the challenge of individual occupational responsibilities (entrepreneurs and managers), and
- require an advanced degree in anticipation of further graduate level education.

The M.B.A. program will satisfy the Oklahoma educational requirements to sit for the CPA exam provided 30 hours of Accounting classes are taken beyond Principles of Financial and Managerial Accounting.

ADMISSION REQUIREMENTS

1. Bachelor's degree from a college or university accredited by a regional accrediting association is required.
2. A **University Application for Admission or Readmission** should be completed and sent to the Registrar's Office.
3. International admissions: students for whom English is a second language wishing to be considered for admission to Graduate Studies must provide results of TOEFL with a minimum score of 550. See Graduate Studies pages for other international requirements.

The following should be completed and sent to the Graduate Office:

4. **Application for Graduate Admission**
5. **Official** transcript(s) of all credit earned
6. **Resume**
7. **M.B.A. Program Application Cover Sheet (if not a SWOSU BBA graduate):** Show evidence of adequate background in the following areas within the business discipline to succeed in M.B.A. courses: Macroeconomics and Microeconomics, Principles of Financial and Managerial Accounting, Marketing, Management, Finance, and Statistics. This requirement can be satisfied with evidence of satisfactory completion of undergraduate course work (refer to the prerequisite section below), CLEP, qualifying examinations, or equivalency as determined by the office of the School of Business and Technology Director of Graduate Programs.

One of the following must be met:

- a) Students with an undergraduate GPA of 3.0 or greater on a 4.0 scale are admitted without the requirement to take the GMAT.
- b) GPA and GMAT scores:
A minimum score on the GMAT of 450 and a minimum with respect to the combination of GPA and GMAT of

$$\text{GPA} * 200 + \text{GMAT} = 1000, \text{ OR}$$

A satisfactory minimum score (GMAT score less than 450) with respect to the combination of GPA and GMAT scores:

$$\text{GPA} * 200 + \text{GMAT} = 1050$$

c) **Portfolio Method for Admission**

The GMAT and GPA requirements may be waived if the M.B.A. applicant possesses a 2.75 or greater retention GPA for the last 45 hours of his/her undergraduate degree and submits a portfolio packet which contains the following:

- Two professional letters of recommendation
- (<http://www.swosu.edu/resources/pubforms/DisplayMedia.aspx?pid=74>)
 - One from a former professor or instructor
 - One from an employer or former employer
- An electronic submission of a written essay to the SOBT Director of Graduate Programs (mbainfo@swosu.edu) which outlines the student's career goals and objectives and how a Master's Degree will enhance them.
- An official copy of undergraduate transcript.

9. When the graduate admissions file is complete, the file will be evaluated to determine admissibility to the M.B.A. Program.
- Applicants who fail to meet these requirements *may* be admitted on a probationary basis at the discretion of the School of Business and Technology Director of Graduate Programs.

10. After admission, meet with the SoBT Director of Graduate Programs and complete a **Plan of Study**. A copy must be on file with the SoBT Director of Graduate Programs during the semester of admission.

PREREQUISITES

For those applicants not having an adequate background in business as described above, the following courses or their equivalent must be completed: (Parentheses indicate the course designation at SWOSU).

Principles of Accounting I and II (Accounting 2213 and 2313)
Microeconomics and Macroeconomics (Economics 2263 and 2363)
Business Statistics (Economics 2463)
Management (Management 3233)
Principles of Marketing (Marketing 3143)
Business Finance (Finance 3343)

COURSE OFFERINGS

The M.B.A. program can be completed in: two academic years including two summers, taking classes only at night; one academic year, taking both day, night and web classes; or, over a more extended period, depending upon the student's own needs and situation.

M.B.A. GRADUATION REQUIREMENTS

- **Completion** of an approved 33 hour program of required and elective courses.
- **Maintenance** of a grade point average of 3.0 (4.0 scale) with no more than six hours of "C" grade accepted toward degree requirements.
- With the assistance of the SoBT Director of Graduate Programs, complete an Application for Admission to Candidacy after the completion of 24-30 semester hours of graduate work. Obtain appropriate signatures and submit the Application for Admission to Candidacy form to the Graduate Office. The completed/signed form must reach the Graduate Office by the first Monday after the close of the drop/add date of the semester in which you intend to graduate (13th day of the Fall or Spring semester, or 10th day of the Summer Semester).
- File an Application for Graduation with the Registrar. This application should be submitted to the Registrar's Office during the first two weeks of the semester in which the student expects to graduate.
- Each M.B.A. graduate must complete the Educational Testing Service (ETS) Major Field Test in Business during their last semester of their M.B.A. program.

COURSE WORK REQUIREMENTS

All M.B.A. students must complete a 30 hour required core with an additional 3 hours of an approved elective as described below.

I. Required M.B.A. Core (30 hours)

ACCTG	5633	Financial Accounting For Decision Making
FINAN	5263	Advanced Financial Management
ECONO	5653	Advanced Managerial Economics
ECONO	5763	Advanced Business Statistics
MNGMT	5013	Seminar in Business
MNGMT	5433	Advanced Human Resources Management
MNGMT	5533	Management and Organizational Behavior
MNGMT	5643	Advanced Quantitative Methods/Operations Analysis
MNGMT	5923	Business Strategy and Policy
MRKTG	5623	Marketing Strategy

II. Required Approved Elective Course (3 hours)

Any 4000- or 5000-level course offered in the School of Business and Technology not including those covered at the graduate level by the core courses **with SoBT Director of Graduate Programs approval**. A course may be taken for graduate credit prior to admission to the M.B.A. Program if the undergraduate degree is complete, or if taken during the senior year if undergraduate GPA is 3.0 or higher.

NOTE – M.B.A. students must have their schedule or Plan of Study approved by the SoBT Director of Graduate Programs prior to enrolling.

MASTER OF EDUCATION DEGREE

Areas of Specialization

Elementary

- Early Childhood
- Elementary Education

Elementary and Secondary

- Health and Physical Education
- Reading Specialist
- Special Education

Secondary Education

- Mathematics
- Natural Sciences
- Social Sciences
- Technology

Educational Administration

School Counseling

School Psychometry

Purposes

The Master of Education degree program at SWOSU is designed to provide a professional course of study for students who have acquired a bachelor's degree in education and wish to improve their proficiency and skill as educators. The general cognitive performance outcomes for the Master of Education degree are as follows:

1. Extend and broaden teachers' knowledge base in subject specialization areas;
2. Increase competency mastery in the use of effective methods, teaching styles, materials, and technology;
3. Further develop teachers' skills in facilitating and evaluating the progress of children and adolescents in areas of human growth, learning, and development;
4. Assist teachers in the improvement of proficiency in analysis, synthesis, and evaluation;
5. Enhance teachers' understanding of the school's multiple roles in society and its responsibility for the preservation and improvement of the democratic process; and
6. Foster attitudes that are conducive to improvement as a means of keeping professionally alert, as well as raising the standards and prestige of the profession.

Admission

In addition to the University and graduate studies admission requirements listed, applicants for the Master of Education degree must meet the following conditions:

1. An undergraduate GPA of 2.5 on a 4.0 scale and minimum of a 3.0 grade point average after completing the first six to nine (6 to 9) hours of graduate course work or above

OR an undergraduate GPA of 2.0 on a 4.0 scale or greater (overall undergraduate Ret/Graduation GPA, GPA on the last 60 semester hours, or a combination of undergraduate Ret/Graduation and graduate GPA) with a satisfactory minimum score with respect to the combination of GPA and GRE scores:

$$\text{GPA} * 150 + \text{GRE}^1 = 1100$$

¹The GRE score will be a sum of the scores on **the verbal test and either the quantitative test or the analytical test.**

OR an undergraduate GPA of 3.0 on a 4.0 scale.

The GRE is waived for students who have a minimum of a 3.0 grade point average on a 4.0 scale after completing the first six to nine (6-9) hours of graduate course work.

2. Applicants must submit two confidential professional recommendations (forms are available in the Graduate Office and on the SWOSU web-site [www.swosu.edu]) completed by individuals who are in

a position to rate academic aptitude and motivational factors. Documents should be sent directly from the reference to the Graduate Office.

3. Candidates in the areas of Educational Administration, School Counseling, and School Psychometry must complete Entry Level Portfolios for Admission and Culminating Portfolios the final semester of graduate school. (Specific guidelines are available through program's advisors.)
4. Candidates in the area of Educational Administration must have at least two years of successful classroom teaching experience.
5. Candidates in the areas of Educational Administration, School Counseling, and School Psychometry will successfully complete a Plan of Study with the program's graduate advisor.
6. Candidates must complete requirements for graduate work in specific departments (prerequisites, recommendations by committee, etc.)
7. Candidates applying for Community Counseling, School Psychometry, and School Counseling programs must complete additional admission requirements selected by the Department of Psychology. You can find additional information at www.swosu.edu/psych/.

An adequate undergraduate background in the teaching field to be pursued at the graduate level must be demonstrated by a satisfactory undergraduate transcript. A student desiring to enter a field of study at the graduate level for which he does not have adequate undergraduate preparation will be required to make up deficiencies without credit toward the master's degree.

Professional Education Courses

A Professional Education Core of twelve (12) hours or a Professional Education and Psychology Core of fifteen (15) hours is required for most Master of Education degree programs. The twelve-hour Professional Education Core is as follows:

EDUC 5113	Introduction to Research
COUN 5513	Introduction to Counseling and Guidance
EDPSY 5723	Advanced Psychology of Learning
ELEM 5693	Teaching in the Elementary School
OR SECED 5833 Teaching in the Secondary School	

The fifteen-hour Professional Education and Psychology Core* is as follows:

COUN 5893	Ethical, Legal/Professional Standards
COUN 5593	Advanced Tests and Measurements
COUN 5513	Introduction to Counseling and Guidance
EDPSY 5723	Advanced Psychology of Learning
EDPSY 5743	Life Span Development

* Required in School Counseling, School Psychometry, and Community Counseling graduate degree programs.

Graduate Capstone Experience - EDUC 5950 – This is a general experience, which must be taken during the final semester of graduate coursework.

CERTIFICATION NOTE

The Master of Education degree programs **DO NOT NECESSARILY** reflect state certification requirements of the State Board of Education. Candidates are encouraged to consult with the certification analyst on campus regarding these requirements.

MASTER OF EDUCATION DEGREE

Early Childhood Education

(Code No. 822)

NOTE: In order to complete this master's degree and meet certification requirements, the candidate must have completed an approved program in Elementary Education, Early Childhood Education, or Special Education **OR** hold a teaching certificate in one of those areas.

I. Required Professional Education (12 hours)

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
ELEM	5693	Teaching in the Elementary School

II. Subject Area Requirements

Completion of at least 12 undergraduate or graduate semester hours in each of the four core subject areas (math, science, language arts, and social science).

III. Required Early Childhood Education Core (20 hours)

ECED	4423	Play Methods & Materials
ECED	4463	The Expressive Arts
ECED	4483	Exploring the Child's World
ECED	4533	Guidance of the Preschool Child
PSYCH	4533	Language Development
ECED	5163	Perceptual Development in Infants and Toddlers
ECED	5612	Practicum in Early Childhood Education

IV. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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Certification Requirements

- Completion of master's degree
- Successful passage of the appropriate Oklahoma Subject Area Examination
- Hold an appropriate/valid teaching certificate and have a minimum of two years successful teaching experience

Upon completion of all requirements, applications for certification should be filed with the Department of Education Certification Analyst in Room 200-A of the Education Building.

MASTER OF EDUCATION DEGREE

Elementary Education

(Code No. 805)

NOTE: In order to complete this master's degree and meet certification requirements, the candidate must have completed an approved program in Elementary Education, Early Childhood Education, or Special Education OR hold a teaching certificate in one of those areas.

I. Required Professional Education Core (12 hours)

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
ELEM	5693	Teaching in the Elementary School

II. Subject Area Requirements

Completion of at least 12 undergraduate or graduate semester hours in each of the four core subject areas (math, science, language arts, and social science).

III. Required Elementary Education Core (12 hours)

RDNG	4443	Diagnostic Practices in Teaching Reading
OR Upper Lever (4000 or 5000) Reading Course		
COUN	5423	Multicultural Concepts
EDPSY	5743	Life Span Development
COUN	5593	Advanced Tests and Measurements

IV. Electives (8 hours required)

EDAD	5233	Fundamentals of Curriculum Planning
EDAD	5983	Public School Law
ECED	4423	Play Methods and Materials
ECED	4463	The Expressive Arts
ECED	4483	Exploring Child's World
ECED	4533	Guidance of the Preschool Child
ECED	4583	Early Childhood & Kindergarten Education
ECED	5162	Perceptual Development in Infants & Toddlers
ECED	5612	Practicum in Early Childhood Education
SPCED	5163	Instructional Content and Practices for Students with Severe, Profound or Multiple Disabilities
SPCED	5223	Detecting & Correcting Special Problems in the Inclusive Classroom
SPCED	5362	Legal & Ethical Practices in Special Education
SPCED	5623	Instructional Content and Practices for Students with Mild or Moderate Disabilities
SPCED	5862	Planning and Managing the Teaching Environment
PSYCH	4533	Language Development

V. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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Certification Requirements

- Completion of master's degree
- Successful passage of the appropriate Oklahoma Subject Area Examination
- Hold an appropriate/valid teaching certificate and have a minimum of two years successful teaching experience

Upon completion of all requirements, applications for certification should be filed with the Department of Education Certification Analyst in Room 200-A of the Education Building.

MASTER OF EDUCATION DEGREE IN EDUCATION

Elementary/Secondary Education

Health and Physical Education

Reading Specialist

Special Education

I. Prerequisites: See specialization requirements.

II. Required Professional Education Core

EDUC 5113 Introduction to Research

COUN 5513 Introduction to Counseling & Guidance

EDPSY 5723 Advanced Psychology of Learning

ELEM 5693 Teaching in Elementary School

OR SECED 5833 Teaching in Secondary School

III. Required courses in area of specialization: See departmental requirements.

IV. Other approved coursework to make a total of at least 32 semester hours.

V. Capstone Experience

EDUC 5950 Graduate Capstone Experience (must be completed during final semester)

MASTER OF EDUCATION DEGREE

Elementary/Secondary Education

Health and Physical Education

(Code No. 807)

- I. Prerequisites:** Completion of 24 undergraduate semester hours in Health and Physical Education.

- II. Required Professional Education Core**

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
ELEM	5693	Teaching in the Elementary School

OR SECED 5833 Teaching in the Secondary School

- III. Required courses in health and physical education:** A minimum of 16 semester hours selected from the following courses, including at least one 5000 level course.

KINES	3133	Teaching Health in Public Schools
KINES	3333	Safety Education
KINES	3443	Kinesiology and Anatomy
KINES	3553	Methods and Materials in Elementary HPE R
PRM	3663	Recreation Management
ATEP	3723	Advanced Athletic Training
ATEP	3743	Athletic Training Rehabilitation and Reconditioning
KINES	4001-4	Individual Study in Health, Physical Education, and Recreation
KINES	4011-4	Seminar in Health, Physical Education, and Recreation
KINES	4052	Sociology of Sports
KINES	4063	Legal Aspects in Physical Education, Recreation and Athletics
KINES	4073	Evaluation in Physical Education
KINES	4113	Organization and Administration of Health, Physical Education, and Recreation
KINES	4122	Organization and Administration of Athletics
PRM	4163	Community Recreation
KINES	4222	Organization and Management of Intramurals
KINES	4233	Exercise Physiology
KINES	4234	Exercise Physiology Lecture & Lab
KINES	4243	Therapeutic and Prescriptive Physical Education
KINES	4262	Motor Learning
ATEP	4323	Athletic Training Pharmacology
KINES	4333	Principles and History of Health & PE
ATEP	4344	Athletic Training Evaluation of Orthopedic Injury
KINES	4353	Motor Development
ATEP	4433	Athletic Training Modalities
KINES	4443	Methods of Teaching Safety Education
KINES	4541	Capstone Experience in HPER
KINES	4553	Teachers Course in Health and PE
PRM	4663	Outdoor Recreation
PRM	4712	Outdoor Leisure Education Seminar (Topic)
ATEP	4722	Administrative Issues in Athletic Training
PRM	4773	Natural Resources Recreation Management
KINES	4802	Theory of Coaching Football
KINES	4832	Theory of Coaching Basketball
KINES	4842	Theory of Coaching Women's Basketball
KINES	4862	Theory of Coaching Baseball
KINES	4873	Curriculum Construction in Health, Physical Education, and Recreation
PRM	4993-8	Internship in Professional Recreation
KINES	5001-4	Individual Study in Health, Physical Education, and Recreation (Topic)
KINES	5011-4	Seminar in Health, Physical Education, and Recreation (Topic)
KINES	5223	Problems in Health, Physical Education, and Recreation
KINES	5552	Health Education in Public School

- IV. Other Approved coursework** to make a total of at least 32 semester hours.
- V. Capstone Experience**
EDUC 5950 Graduate Capstone Experience (must be completed during the final semester)
- VI. Combined** undergraduate and graduate work in Health and Physical Education must total at least 56 semester hours. At least eight (8) hours of the undergraduate and graduate total shall be in Health and at least eight (8) hours in Physical Education.

MASTER OF EDUCATION DEGREE

Elementary/Secondary Education

Reading Specialist

(Code No. 816)

Note: In order to complete this master's degree and meet certification requirements, the candidate must have completed an approved program in Elementary Education, Early Childhood Education, or Special Education **OR** hold a teaching certificate in one of those areas.

Prerequisites: Six (6) undergraduate semester hours

Three (3) Hours From:

RDNG 3423 Teaching of Reading I

RDNG 4443 Diagnostic Practices in Teaching of Reading
School

Three (3) Hours From:

LIT 4463 Children's Literature

ELEM 3453 Language Arts in the Elem.

I. Required Courses (9 Hours Required)

PSYCH 4533 Language Development

EDUC 5113 Introduction to Research

EDPSY 5723 Advanced Psychology of Learning

II. Reading Specialization Core (18 Hours Required)

RDNG 5183 Analysis of Reading Systems

RDNG 5413 Foundations of Reading

RDNG 5463 Org. and Supervision of Reading Instruction

RDNG 5423 Diagnosis/Remediation of Reading I

RDNG 5433 Diagnosis/Remediation of Reading II

RDNG 5443 Practicum in Reading (Individual)

RDNG 5453 Practicum in Reading (Group)

III. Capstone Experience

EDUC 5953 Graduate Capstone Experience (must be completed during the final semester)

IV. Total Required for the Master of Education Degree

33 Hours

Certification Requirements

1. Completion of Master's degree
2. Successful passage of the appropriate Oklahoma Subject Area Examination
3. Upon completion of all requirements, applications for certification should be filed with the Department of Education Certification Analyst in Room 200-A of the Education Building.

Pending Approval by the Oklahoma Commission for Teacher Preparation

MASTER OF EDUCATION DEGREE

Special Education (N-12)

Mild or Moderate Disabilities

Code No. 821

Note: In order to complete this master's degree and meet certification requirements, the candidate must be completed an approved program in Elementary education, Early Childhood, or Special Education OR hold a teaching certificate in one of those areas.

I. Required Professional Education (12 hours)

EDUC	5113	Introduction to Research
ELEM	5693	Teaching in the Elementary School
OR		
SECED	5833	Teaching in the Secondary School
RDGN	5413	Foundations of Reading
RDGN	5463	Organization and Supervision of Reading Instruction

II. Subject Area Requirements

Completion of at least 12 undergraduate or graduate semester hours in each of the four core subjects areas (Math, Science, Language Arts, and Social Science)

III. Required Special Education Core (21 hours)

SPCED	5213	Introduction to Mild & Moderate
SPCED	5433	Assessment of Exceptional Individuals
SPCED	5863	Planning and Managing the Teaching Environment
SPCED	5362	Legal and Ethical Practices in Special Education
SPCED	5623	Instructional Content and Practices for Students with M/M Disabilities
SPCED	5223	Detecting and Correcting Special Problems in the Inclusive Classroom
ECED	5163	Perceptual Development in Infants/Toddlers
SPCED	5821	Practicum-Mild/Moderate Disabilities

IV. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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CERTIFICATION REQUIREMENTS:

- Completion of Master's Degree
- Successful passage of all the appropriate Oklahoma Subject Area Test
- Upon completion of all requirements, application for certification should be filed with the Department of Education Certification analyst in Room 200-A of the Education Building.

MASTER OF EDUCATION DEGREE IN EDUCATION

Secondary Education Options

Mathematics
Natural Sciences
Social Sciences
Technology

I. Prerequisites: See specialization departmental requirements.

II. Required Professional Education Core

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
SECED	5833	Teaching in Secondary School

III. Required courses in area of specialization: See departmental requirements.

IV. Other approved coursework to make a total of at least 32 semester hours.

V. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during final semester)
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MASTER OF EDUCATION DEGREE IN EDUCATION Secondary Education

Mathematics (Code No. 812)

I. Combined undergraduate and graduate work in mathematics must total at least 52 semester hours. The undergraduate and graduate total shall be on the level of College Algebra or higher. The combined total shall include Calculus III and at least one graduate course each in algebra and geometry.

II. Prerequisites: Completion of 36 undergraduate semester hours in mathematics.

III. Required Professional Education Core

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
SECED	5833	Teaching in Secondary School

IV. Required courses in Mathematics: A minimum of 12 semester hours from the following (including at least one 5000 level course):

Mathematics Courses for Secondary Teachers

MATH	3113	Foundations in Mathematics
MATH	3433	Statistics I
MATH	3473	Introduction to Probability
MATH	3453	Mathematical Statistics
MATH	3533	Technology and Programming in Math
MATH	3553	Numerical Analysis
MATH	3653	Linear Algebra
MATH	3673	Elementary Number Theory
MATH	3713	College Geometry
MATH	4011-4	Seminar in Mathematics (Topic)
MATH	4133	Introduction to Mathematical Logic
MATH	4153	History of Mathematics
MATH	4213	Differential Equations I
MATH	4223	Differential Equations II
MATH	4233	Vector Analysis
MATH	4653	Modern Algebra
MATH	4753	Intro to Point Set Topology
MATH	4853	Advanced Calculus
MATH	4873	Complex Variables
MATH	5011-4	Seminar in Mathematics (Topic)
MATH	5612	Linear Algebra for Secondary Schools
MATH	5632	Abstract Algebra for Secondary Schools
MATH	5712	Current Trends in Secondary School Geometry
MATH	5812	Real Numbers

V. Other approved course work to make a total of at least 32 semester hours.

VI. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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MASTER OF EDUCATION DEGREE IN EDUCATION Secondary Education Natural Sciences (Code No. 814)

- I. Prerequisites:** Completion of a minimum of 20 undergraduate semester hours in one area of the Natural Sciences (Biology, Chemistry, Earth Science, or Physics) and a minimum of 20 undergraduate semester hours in one or a combination of the other three natural science areas. The total minimum prerequisite is 40 hours of approved science coursework.
- II. Required Professional Education Core**
- | | | |
|-------|------|---------------------------------------|
| EDUC | 5113 | Introduction to Research |
| COUN | 5513 | Introduction to Counseling & Guidance |
| EDPSY | 5723 | Advanced Psychology of Learning |
| SECED | 5833 | Teaching in Secondary School |
- III. Specialization:** (16 hours - including one 5000-level course): Students must select a program to include courses from the Biological Sciences, Chemistry, Earth Sciences, and/or Physics.
- Credit for Summer Activities:** Students who attend summer courses at the Gulf Coast Marine Research Laboratory (with which SWOSU is affiliated), the University of Oklahoma Biological Station, or other institutions of higher education may be able to use those courses toward their biology degree. Likewise, students may earn college credit for some summer research positions and internships. Students who are considering such courses should meet with the Department Chair, prior to enrolling, to determine if these courses may be used toward their degree.
- IV. Other approved** course work to make a total of at least 32 semester hours.
- III. Capstone Experience**
- | | | |
|------|------|--|
| EDUC | 5950 | Graduate Capstone Experience (must be completed during the final semester). The Capstone |
|------|------|--|
- Experience for this degree will consist of a research project (see VI. below), which will be reviewed by the student's major advisor and two committee members.
- VI. Research project:** The student will be required to complete an approved research topic and submit a written paper and present a seminar to the faculty. This research may be taken for two to four hours credit. The research topic may be in one of the disciplines of the Natural Sciences or in the area of Science Education.

MASTER OF EDUCATION DEGREE IN EDUCATION Secondary Education Social Sciences (Code No. 820)

I. Prerequisites: Completion of 24 undergraduate semester hours in Social Sciences.

II. Required professional education Core

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
SECED	5833	Teaching in Secondary School

III. Required courses in Social Sciences: A minimum of 16 semester hours selected from the following courses, including at least one 5000 level course.

Criminal Justice

CRMJS	3163	Sociology of Deviant & Criminal Behavior
CRMJS	3243	Comparative Criminal Justice Sys
CRMJS	3803	Privatization of Criminal Justice
CRMJS	4013	Seminar in Criminal Justice
CRMJS	4103	Juvenile Justice
CRMJS	4143	Critical Issues in Criminal Justice
CRMJS	4153	U.S. Corrections
CRMJS	4333	Victimology
CRMJS	4903	Directed Readings in Criminal Justice
CRMJS	5903	Directed Readings in Criminal Justice

Economics

ECONO	3863	Money and Banking
ECONO	4003	Independent Study in Economics (Topic)
ECONO	4013	Seminar in Economics (Topic)
ECONO	4563	Managerial Economics
ECONO	4963	International Economics
ECONO	5653	Advanced Managerial Economics
ECONO	5763	Advanced Business Statistics

Geography

GEOG	4083	Environmental Studies
GEOG	4103	World Geography by Regions
GEOG	4113	Geography of U.S. & Canada

History

HIST	3033	Historians of the Middle Ages
HIST	3043	Early Modern Europe
HIST	3063	Modern Ireland
HIST	3083	Nationalism and Ethnicity
HIST	3093	20th Century Europe: 1889-1989
HIST	3103	Medieval England
HIST	3113	Tudor England
HIST	3173	History of Ideas
HIST	3193	The European Union
HIST	3203	History of Germany, 9 A.D. - 1989
HIST	3303	History of Imperial Russia
HIST	3403	Modern France

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HIST	3503	Early Christian Thought
HIST	3603	20th Century World History
HIST	4011-4	Seminar in History
HIST	4023	Colonial America: 1492-1765
HIST	4033	Revolutionary America: 1765-1808
HIST	4043	New Nation and Age of Jackson: 1808-1850
HIST	4053	Civil War and Reconstruction: 1850-1877
HIST	4063	Gilded Age and Progressive Era: 1877-1920
HIST	4073	20th Century America: 1920-1960
HIST	4083	Contemporary America: 1960 - Present
HIST	4093	Historical Research and Writing
HIST	4103	American Indians
HIST	4123	America in the 1960s
HIST	4133	Women in American History
HIST	4203	Old South
HIST	4213	New South
HIST	4313	American West
HIST	4353	History of Oklahoma
HIST	4901-4	Directed Readings in History
HIST	5093	Historiography
HIST	5011-4	Seminar in History
HIST	5901-4	Directed Readings in History

Political Science

POLSC	3003	Federal Constitution
POLSC	3033	Political Parties
POLSC	3113	Political Theory
POLSC	3163	Principles of International Relations
POLSC	3323	Legislative-Executive Relations
POLSC	3343	Women and Politics
POLSC	3353	Model United Nations
POLSC	3363	Public Administration Theory and Practice
POLSC	4013	Seminar in Political Science
POLSC	4233	Urban Politics and Election System
POLSC	4303	International Organizations
POLSC	4403	Public Policy Formation
POLSC	4613	Civil Rights and Liberties
POLSC	4903	Directed Reading in Political Science
POLSC	5903	Directed Reading in Political Science

Sociology

SOCIO	3043	Racial and Cultural Minorities
SOCIO	3163	Sociology of Deviant and Criminal Behavior
SOCIO	4013	Seminar in Sociology
SOCIO	4033	Advanced Analysis of Social Problems
SOCIO	4313	Sociology of Aging
SOCIO	4323	Gerontology

Social Sciences

SOCSC	3853	Statistics for the Social Sciences
SOCSC	3863	Fundamentals of Research
SOCSC	4133	Teachers Course in the Social Sciences

IV. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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V. Other approved course work to make a total of at least 32 semester hours.

**MASTER OF EDUCATION DEGREE
IN EDUCATION
Secondary Education
Technology
(Code No. 809)**

- I. Prerequisites:** Completion of 24 undergraduate semester hours in Technology and/or technology-related courses
- II. Required Professional Education Core:** Technology Education majors and Non-Certification Track (12 Semester Hours)
 - EDUC 5113 Introduction to Research
 - COUN 5513 Introduction to Counseling & Guidance
 - EDPSY 5723 Advanced Psychology of Learning
 - SECED 5833 Teaching in Secondary School
- III. Additional requirements for Technology Education majors:** A minimum of eight (8) semester hours in Technology Education, including at least one 5000-level course.
- IV. Other approved course work to make a total of at least 32 semester hours:** The required minimum number of graduate semester hours in Technology may be selected from 3000- and 4000-level courses approved for graduate credit (and not completed for undergraduate credit) and must include at least one 5000-level course.
- V. Capstone Experience**
 - EDUC 5950 Capstone Experience (must be completed during the final semester)
- VI. Combined** undergraduate and graduate work in Technology and technology related courses must total at least 48 semester hours.

MASTER OF EDUCATION DEGREE

Educational Administration

(Code No. 804)

- NOTES:**
- 1) Additional admission criteria for candidates seeking a degree and/or certification in Educational Administration must have
 - a) at least two years of successful classroom teaching experience
 - b) an Entry Level Electronic Professional Portfolio
 - 2) Program completion requirements shall include a Culminating Professional Electronic Portfolio.
 - 3) For more information on the above entry and exit requirements, contact the Educational Administration graduate advisors.

I. Required Professional Education Core (33 hours)

EDUC	5113	Introduction to Research
EDAD	5853	School – Community Relations
EDAD	5233	Fundamentals of Curriculum Planning
EDAD	5313	School Personnel Administration
EDAD	5413	Internship in Educational Administration (Principal)
EDAD	5613	Educational Administration Theory
EDAD	5513	Educational Leadership Psychology
EDAD	5813	Supervision of Instruction
EDAD	5933	The Principalship
EDAD	5973	Public School Finance
EDAD	5983	Public School Law

II. Capstone Experience

EDUC 5950 Graduate Capstone Experience – Candidates complete the Capstone requirement by completing and submitting to the advisor for evaluation the Final Graduate Electronic Portfolio Scoring Rubric documenting completion of the Graduate Electronic Portfolio. Candidates must complete the Capstone requirement during the final semester.

Certification Requirements

- Completion of the Master of Education Degree in Educational Administration /or/ if the candidate already holds a master's degree, completion of all required coursework in the Educational Administration Program
- Successful passage of the Oklahoma Subject Area Test 044: Principal Common Core and OSAT Principal Specialty Test in at least one area (045: Elementary; 046: Middle Level; 047: Secondary)
- Hold an appropriate/valid teaching certificate and have a minimum of two years successful teaching experience

Upon completion of all requirements, candidates notify the Department of Education Certification Analyst in Room 200-A of the Education Building. Applications for certification then are completed online by the candidates and the Certification Analyst.

MASTER OF EDUCATION DEGREE

School Counseling

(Code No. 818)

- NOTES:**
- 1) Admission criteria for candidates seeking a degree and/or certification in School Counseling includes an Entry Level Professional Portfolio.
 - 2) Program completion requirements shall include a Culminating Professional Portfolio.
 - 3) For more information on the above requirements, contact the Department of Psychology.

Admission Requirements for Graduate Degree Programs in Psychology

The deadlines for application for the M.Ed. programs in School Counseling and School Psychometry and the M.S. Community Counseling are June 1 for the Fall Semester and November 1 for the Spring Semester. Application will not be accepted for Summer admission. In addition to the University and graduate studies admission requirements, applicants for graduate programs in Psychology must meet the following conditions:

1. An undergraduate GPA of 2.50 (on a 4.00 scale) or above **and** a satisfactory minimum score with respect to the combination of GPA and GRE scores is required:
 $GPA \times 150 + GRE^1 = 1100$
The GRE is waived for students who have an undergraduate grade point average equal to or greater than 2.75 on a 4.00 point scale.
2. Applicants must submit two professional recommendations completed by individuals who are in a position to rate academic aptitude, motivational and character factors (forms are available in the Graduate Office or on our web site). Forms should be sent directly from the reference to the Graduate Office. Applicants must also submit an original OSBI Background Check. The procedure for completing the check is in the application packet.
3. Acceptance into any of the Psychology Master programs will require completing an interview with two Psychology Faculty. The interviews will be scheduled for the second Friday of June for Fall applicants and the second Friday of November for Spring applicants.
4. Candidates in the areas of School Counseling and School Psychometry must complete Entry Level Portfolios for Admission and Culminating Portfolios the final semester of graduate school. (Specific guidelines are available on the Psychology Department web site.)
5. Upon acceptance into any of these graduate programs, the candidate must successfully complete a Plan of Study with his/her advisor.
6. Placement into the LPC internship courses requires approval from the Departmental Internship/Practicum Approval Committee (IPAC).

(Meeting the minimum standards does not guarantee acceptance into the program.)

¹The GRE score will be a sum of the scores on the verbal test and the quantitative test.

I. Required Professional Education and Psychology Core (15 hours)

COUN	5893	Ethical, Legal/Professional Standards
COUN	5593	Advanced Tests & Measurements
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
EDPSY	5743	Life Span Development

II. Required School Counseling Specialization Core (18 hours)

COUN	5503	Development of School Guidance Programs
COUN	5523	Career Counseling
COUN	5543	Theories of Counseling
COUN	5553	Theories/Techniques Group Counseling
COUN	5563	Practicum in Counseling (150 clock hours)
EDPSY	5703	Behavioral Intervention Strategies

III. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during the final semester)
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IV. Total Required for the Master's Degree - 33 Hours

Certification Requirements

- Completion of master's degree
- Successful passage of the appropriate Oklahoma Subject Area Examination
- Hold an appropriate/valid teaching certificate

Upon completion of all requirements, applications for certification should be filed with the Department of Education Certification Analyst in Room 200-A of the Education Building.

School Counseling

Licensed Professional Counselor (LPC)

Upon completion of the Master of Education degree in *School Counseling*, the following courses are required for eligibility for the State of Oklahoma Licensure LPC Examination.

PSYCH 5633	Advanced Abnormal Psychology
PSYCH 5143	Research Methods
PSYCH 5133	Crisis Intervention Techniques
COUN 5213	Community Counseling
PSYCH 5223	Techniques of Psychotherapy
COUN 5373	Theories/Techniques Family Counseling
PSYCH 5413	Personality Theories/Research
EDPSY 5713	Wechsler Intelligence Scale
COUN 5613	Internship in Counseling (150 clock hours)

Applicable courses taken in the Master of Education degree Professional Education and Psychology Core and Specialization.....	33
Hours	
For LPC School Counseling Licensure Track	<u>27</u>
Hours	
Total	60
Hours	

**NOTE: SUCCESSFUL COMPLETION OF THIS COURSE SEQUENCE QUALIFIES THE
CANDIDATE FOR LICENSURE EXAMINATION ELIGIBILITY.**

MASTER OF EDUCATION DEGREE

School Psychometry

(Code No. 819)

- NOTES:**
- 1) Admission criteria for candidates seeking a degree and/or certification in School Psychometry-- includes an Entry Level Professional Portfolio.
 - 2) Program completion requirements shall include a Culminating Professional Portfolio.
 - 3) For more information on the above requirements, contact the Department of Psychology.

Admission Requirements for Graduate Degree Programs in Psychology

The deadlines for application for the M.Ed. programs in School Counseling and School Psychometry and the M.S. in Community Counseling are June 1 for the Fall Semester and November 1 for the Spring Semester. Application will not be accepted for Summer admission. In addition to the University and graduate studies admission requirements, applicants for graduate programs in Psychology must meet the following conditions:

1. An undergraduate GPA of 2.50 (on a 4.00 scale) or above **and** a satisfactory minimum score with respect to the combination of GPA and GRE scores is required:
$$\text{GPA} \times 150 + \text{GRE}^1 = 1100$$

The GRE is waived for students who have an undergraduate grade point average equal to or greater than 2.75 on a 4.00 point scale
2. Applicants must submit two professional recommendations completed by individuals who are in a position to rate academic aptitude, motivational and character factors (forms are available in the Graduate Office or on our web site). Forms should be sent directly from the reference to the Graduate Office. Applicants must also submit an original OSBI Background Check. The procedure for completing the check is in the application packet.
3. Acceptance into any of the Psychology Master programs will require completing an interview. The interviews will be scheduled for the second Friday of June for Fall applicants and the second Friday of November for Spring applicants.
4. Candidates in the areas of School Counseling and School Psychometry must complete Entry Level Portfolios for Admission and Culminating Portfolios the final semester of graduate school. (Specific guidelines are available on the Psychology Department web site.)
5. Upon acceptance into any of these graduate programs, the candidate must successfully complete a Plan of Study with his/her advisor.

(Meeting the minimum standards does not guarantee acceptance into the program.)

¹The GRE score will be a sum of the scores on the verbal test and the quantitative test.

I. Required Professional Education and Psychology Core (15 hours)

COUN	5893	Ethical, Legal/Professional Standards
COUN	5593	Advanced Tests and Measurements
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
EDPSY	5743	Life Span Development

II. Required School Psychometry Specialization Core (19 hours)

SPCED	5213	Introduction to Special Education
EDPSY	5563	Special Diagnostic Methods
EDPSY	5462	Psychometrical Services
EDPSY	5613	Binet/Woodcock Johnson
EDPSY	5713	Wechsler Intelligence Scale
EDPSY	5782	Practicum School Psychometry (150 clock hours included)
EDPSY	5703	Behavior Intervention Strategies

III. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during final semester)
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IV. Total Required for the Master's Degree - 34 Hours

See next page for Certification requirements for School Psychometry.

Certification Requirements for School Psychometry

1. Completion of the following prerequisite courses at the undergraduate or graduate level:
 - Introduction to Psychology
 - Child or Adolescent Psychology
 - Educational Psychology
 - Exceptional Children
 - Educational Foundations
2. Completion of a Master's degree.
3. Successful passage of the appropriate Oklahoma Subject Area Test and the Oklahoma Professional Teaching Examination.*
4. The applicant must meet ONE of the following criteria for certification
 - a. Possess a valid certificate in one of the following areas:
 - Early Childhood
 - Elementary
 - Library Media Specialist
 - Speech/Language Pathology
 - Elementary/Secondary
 - Secondary
 - b. If the applicant does not possess a valid teaching certificate, the applicant must have completed a course in Teaching of Reading and a course in Teaching of Mathematics. This coursework must be followed by a 120-hour pre-professional field experience in both the regular classroom and in the special education classroom. For additional information concerning those applicants who do not possess a valid teaching certificate, contact the Department of Psychology in the Psychology Building, Room 117.
5. **Upon completion of all requirements, the application for certification should be filed with the Department of Education Certification Analyst in Room 200-A of the Education Building.**

***If the candidate does not possess a valid teaching certificate, successful passage of the Oklahoma General Education Test is also required.**

MASTER OF EDUCATION DEGREE

Non-Certification Track

Individuals who do not have undergraduate professional education prerequisites for the regular Master of Education degree program may pursue the Master of Education program for non-education majors. These programs are designed for individuals who do not plan to obtain teacher certification but wish to improve their educational background in certain academic disciplines (e.g., Art, English, Mathematics, Natural Sciences, etc.).

Individuals interested in community college teaching or other types of nonpublic school employment may pursue graduate studies in the following areas:

Art**	Parks and Recreation Management**
Early Childhood*	Reading Specialist*
Educational Administration*	School Counseling*
Elementary Education*	School Psychometry*
Health and Physical Education*	Social Sciences*
Health Sciences and Microbiology*	Special Education*
Mathematics*	Sports Management**
Natural Sciences*	Technology*

* these degrees can be taken on a Certified Track (education majors) or Non-Certification Track (non-education majors) refer to the previous section for the specific degree requirements

** these degrees can be taken only on the Non-Certification Track, refer to the following section for the specific degree requirements

I. Prerequisites: Completion of required number of undergraduate semester hours in area of specialization.

II. Professional Education Courses

A Professional Education Core of twelve (12) hours or a Professional Education and Psychology Core of fifteen (15) hours is required for most Master of Education degree programs. The twelve-hour Professional Education Core is as follows:

EDUC 5113	Introduction to Research
COUN 5513	Introduction to Counseling and Guidance
EDPSY 5723	Advanced Psychology of Learning
ELEM 5693	Teaching in the Elementary School
OR SECED 5833 Teaching in the Secondary School	

The fifteen-hour Professional Education and Psychology Core* is as follows:

COUN 5893	Ethical, Legal/Professional Standards
COUN 5593	Advanced Tests and Measurements
COUN 5513	Introduction to Counseling and Guidance
EDPSY 5723	Advanced Psychology of Learning
EDPSY 5743	Life Span Development

* Required in School Counseling and School Psychometry graduate degree programs.

III. Required courses in the area of specialization.

The required minimum number of graduate semester hours in the field of specialization is the same as listed for that specialization and may be selected from 3000 and 4000 level courses (approved for graduate credit) and not completed for undergraduate credit.

IV. Capstone Experience

EDUC 5950 Graduate Capstone Experience (must be completed during final semester)

V. Other approved course work to make a total of 32-34 graduate semester hours

VI. The combined total of graduate and undergraduate semester hours in the field of specialization is the same as listed for that specialization in the regular Master of Education program.

MASTER OF EDUCATION DEGREE Non-Certification Track

Art (Code No. 823)

- I. Prerequisites:** Completion of 24 undergraduate semester hours in Art.
- II. Required Professional Education Core**
- | | | |
|---|------|---------------------------------------|
| EDUC | 5113 | Introduction to Research |
| COUN | 5513 | Introduction to Counseling & Guidance |
| EDPSY | 5723 | Advanced Psychology of Learning |
| ELEM | 5693 | Teaching in the Elementary School |
| OR SECED 5833 Teaching in the Secondary School | | |
- III. Required courses in art:** A minimum of 16 semester hours selected from the following courses, including at least one 5000 level course.
- | | | |
|-----|--------|---|
| ART | 3113 | Watercolor Studio* |
| ART | 3153 | Figure Drawing* |
| ART | 3213 | Computer Graphics |
| ART | 3353 | Clay Studio* |
| ART | 3413 | Sculpture Studio* |
| ART | 3483 | Printmaking Studio* |
| ART | 3513 | Media for Artists |
| ART | 3613 | History of Art I |
| ART | 3653 | History of Art II |
| ART | 3683 | Illustration Studio* |
| ART | 3753 | Life Drawing* |
| ART | 3783 | Photographic/Digital Illustration* |
| ART | 3853 | Typographic Design* |
| ART | 3883 | Advertising Design* |
| ART | 3923 | Publication Design* |
| ART | 3953 | Professional Practice for Designers and Illustrators |
| ART | 4001-4 | Independent Study in Art (Topic) |
| ART | 4011-4 | Seminar in Art |
| ART | 4163 | Portfolio |
| ART | 4253 | Applied Design |
| ART | 4313 | Painting Studio* |
| ART | 4333 | Studio Drawing* |
| ART | 4353 | Modern Art History |
| ART | 4383 | Art History Since 1945 |
| ART | 4393 | Non-Western Art Survey |
| ART | 4413 | Package Design* |
| ART | 4452 | Content, Methods and Materials in Elementary School Art |
| ART | 4553 | Teachers' Course in Art |
| ART | 5001-4 | Independent Study in Art |
| ART | 5011-4 | Seminar in Art |
| ART | 5651 | Graduate Exhibit |
- *Denotes upper-level studio courses repeatable twice for credit to fulfill requirements
- IV. Other approved coursework** to make a total of at least 32 semester hours
- V. Capstone Experience**
- | | | |
|------|------|--|
| EDUC | 5950 | Graduate Capstone Experience (must be completed during the final semester) |
|------|------|--|
- VI. Combined** undergraduate and graduate work in Art must total at least 60 semester hours.

MASTER OF EDUCATION DEGREE IN EDUCATION Non-Certification Track

Health Sciences and Microbiology (Code No. 842)

I. Prerequisites: Completion of 24 undergraduate semester hours in Health Sciences

II. Required Professional Education Core

EDUC	5113	Introduction to Research
COUN	5513	Introduction to Counseling & Guidance
EDPSY	5723	Advanced Psychology of Learning
SECED	5833	Teaching in Secondary School (Optional)

III. Required courses in Health Sciences: A minimum of 16 semester hours selected from the following courses, including at least one 5000-level course. Students should submit a proposed Graduate Plan to the Associate Dean.

Allied Health Science		
ALHLT	3043	Health Statistics
ALHLT	3093	Dietetics in Health and Illness
ALHLT	3193	Health Care Delivery
ALHLT	3933	Management of Health Care Institutions
ALHLT	3963	Health Care Administration
ALHLT	4043	Medicolegal Concepts
ALHLT	4802	History of Medicine
ALHLT	4872	Hominology
ALHLT	5001-4	Independent Study in Allied Health

Athletic Training Education Program		
ATEP	3743	Athletic Training Rehabilitation
ATEP	4323	Athletic Training General Medicine & Pharmacology
ATEP	4344	Athletic Training Evaluation of Orthopedic Injury
ATEP	4353	Athletic Training Evaluation of Orthopedic Injury – LE
ATEP	4363	Athletic Training Evaluation of Orthopedic Injury – UE
ATEP	4433	Athletic Training Modalities
ATEP	4722	Administrative Issues in Athletic Training

Health Information Management Program		
MEDRC	3023	Health Information Systems
MEDRC	3033	Intro to Health Information
MEDRC	3333	Coding I
MEDRC	3343	Coding II
MEDRC	3352	Introduction to Reimbursement and Classification Systems
MEDRC	4112	Quality Improvement
MEDRC	4023	Health Information Application
MEDRC	4033	Health Information Management

Clinical Laboratory Science - Microbiology		
ALHLT	4074	Pathophysiology
ALHLT	4093	Epidemiology
ALHLT	4213	Immunology
ALHLT	4313	Medical Parasitology
ALHLT	4355	Microbiology
ALHLT	4404	Pathogenic Microbiology
ALHLT	4453	Virology
ALHLT	4503	Microbial Physiology
ALHLT	4523	Environmental Microbiology
ALHLT	4343	Applied Microbiology

Other Classes		
KINES	3443	Kinesiology & Anatomy
KINES	4234	Exercise Physiology

IV. Other approved course work to make a total of at least 32 semester hours.

V. Capstone Experience

EDUC 5950 Graduate Capstone Experience (must be completed during final semester)

MASTER OF EDUCATION DEGREE IN EDUCATION Non-Certification Track

Parks and Recreation Management (Code No. 843)

I. Prerequisites: Completion of 24 undergraduate semester hours in Parks and Recreation Management (PRM) or related areas.

Mandatory prerequisite course includes

PRM 2102 Foundations of Parks and Recreation

II. Required Professional Education and Psychology Core (6 hours)

EDUC 5113 Introduction to Research

EDPSY 5723 Advanced Psychology of Learning

III. Required courses in Parks and Recreation Management

a. Required PRM Core (5 hours)

PRM 5103 Internship in Parks and Recreation Management

PRM 5902 Directed Readings in Parks and Recreation Management

b. PRM Electives (18 hours)

PRM 3122 Wilderness First Aid

PRM 3133 Emergency Response

PRM 3211 Outdoor Education / Adventure Programming

PRM 3221 Outdoor Education for Teachers

PRM 3432 Ropes Course Facilitation

PRM 3441 High Angle Rescue

PRM 3452 Advanced Ropes

PRM 3503 Sports Management

PRM 3663 Recreation Management

PRM 3702 Recreational Areas and Facilities Management

PRM 4001-4 Independent Study in Parks and Recreation Management

PRM 4011-4 Seminar in Parks and Recreation Management

PRM 4011 Wilderness Medicine

PRM 4012 Land Use Planning

PRM 4012 Recreational Sports History

PRM 4152 Recreation and Sports Management Statistics

PRM 4122 Recreation and Sports Management Law

PRM 4132 Recreation and Sports Employment Law

PRM 4142 Ethics in Recreation and Sports Management

PRM 4172 Natural Resource Law

PRM 4113 Risk Management in Recreation

PRM 4163 Community Recreation

PRM 4201 The Park Ranger

PRM 4211 Game and Fish Law

PRM 4221 Small Craft Safety

PRM 4231 Custody and Control

PRM 4241 Firearm Safety

PRM 4352 Wildland Fuel Reduction

PRM 4502 Rodeo Management

PRM 4513 Golf Management

PRM 4523 Fitness Program Management

PRM 4533 Sports Information Management

PRM 4663 Outdoor Recreation

PRM 4773 Natural Resource Recreation Management

KINES 4063 Legal Aspects in Physical Education, Recreation and Athletics

KINES 4222 Organization and Management of Intramural Sports

MRKTG 3243 Promotional Strategy

PSYCH 5013 Advanced Psychology of Sports

c. Required PRM Research Capstone (3 hours)

PRM 5203 Research in Parks and Recreation Management

Required graduate capstone project to be determined by the candidate in conjunction with the PRM graduate advisor.

The graduate project may be a theoretical or applied research effort.

IV. Approved coursework to make a total of 32 semester hours.

V. Combined undergraduate and graduate work in Parks and Recreation Management must total at least 44 semester hours.

MASTER OF EDUCATION DEGREE IN EDUCATION Non-Certification Track

Sports Management (Code No. 844)

- I. **Prerequisites:** Completion of 24 undergraduate semester hours in Parks and Recreation Management (PRM), Health and Physical Education (HPE), Kinesiology (KINES), Athletic Training Education Program (ATEP), Business Management (MNGMT), Marketing (MRKTG), General Business (GEBUS), or related areas.
- II. **Required Professional Education and Psychology Core** (9 hours)
- | | | |
|-------|------|---------------------------------|
| EDUC | 5113 | Introduction to Research |
| EDPSY | 5723 | Advanced Psychology of Learning |
| PSYCH | 5233 | Advanced Psychology of Sports |
- III. **Required Courses in Sports Management**
- a. **Required Sports Management Core** (5 hours)
- | | | |
|-----|------|--|
| PRM | 5912 | Directed Readings in Sports Management |
| PRM | 5113 | Internship in Sports Management |
- b. **Sports Management Electives** (15 hours)
- | | | |
|-------|--------|---|
| PRM | 3663 | Recreation Management |
| PRM | 3882 | Recreational Areas and Facilities Management |
| PRM | 4001-4 | Independent Study in Parks and Recreation Management |
| PRM | 4011-4 | Seminar in Parks and Recreation Management |
| PRM | 4012 | Recreational Sports History |
| PRM | 4012 | Recreation and Sports Management Statistics |
| PRM | 4012 | Ethics in Recreation & Sports Management |
| PRM | 4012 | Current Events Recreation & Sports Management |
| PRM | 4012 | Event Safety |
| PRM | 4113 | Risk Management in Recreation |
| PRM | 4163 | Community Recreation |
| PRM | 4122 | Recreation and Sports Management Law |
| PRM | 4132 | Recreation and Sports Employment Law |
| PRM | 4012 | Ethics in Recreation and Sports Management |
| PRM | 4502 | Rodeo Management |
| PRM | 3503 | Sports Management |
| PRM | 4573 | Fitness Program Management |
| PRM | 4513 | Golf Management |
| PRM | 4533 | Sports Information Management |
| PRM | 4663 | Outdoor Recreation |
| ATEP | 4722 | Administrative Issues in Athletic Training |
| KINES | 4063 | Legal Aspects of Physical Education, Recreation and Athletics |
| KINES | 4122 | Organization and Administration of Athletics |
| KINES | 4222 | Organization and Management of Intramural Sports |
| KINES | 4052 | Sociology of Sport |
| MRKTG | 3243 | Promotional Strategy |
| MRKTG | 5013 | Sports Marketing |

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- c. **Required Sports Management Research Capstone** (3 hours)
PRM 5213 Research in Sports Management: Required graduate capstone project to be determined by the candidate in conjunction with the PRM graduate advisor. The graduate project may be a theoretical or applied research effort.

IV. **Approved coursework** to make a total of 32 semester hours.

V. **Combined** undergraduate and graduate work in approved Sports Management and related courses must total at least 44 semester hours.

MASTER OF MUSIC DEGREE

The Master of Music degree program provides advanced study in music education, solo and ensemble performance, conducting, and church music. Graduate programs in music are for those students who hold a baccalaureate degree in music. Objectives of the program are:

- To improve the quality of the student's musical performances through instruction and supervised experience in public performance;
- To improve the student's proficiency in composing and analyzing music;
- To help the student improve the knowledge and skills necessary to teach music in public schools and universities;
- To foster respect for the integral role music plays in contemporary society and in education and to develop the ability of professional musicians to communicate that role to the general public; and
- To help the student develop detailed knowledge of music research, music literature, music history, and music theory.

Admission

In addition to the University and graduate studies admission requirements listed, applicants for the Master of Music degree must meet the following multiple measures for admission to the degree program:

1. Two letters of recommendation from individuals qualified to rate the applicant's academic aptitude and motivation.
2. Advisory exams, administered by the department in music history, music theory, and music education to be completed during the first period of enrollment.
3. For performance majors: An entrance audition of 30 minutes length representing a variety of styles and composers.
4. For music education majors: A brief performance audition in the major applied area.
5. A bachelor's degree in music, music education, or music performance.

Information about exams and the graduate program in Music may be obtained from the Director of Graduate Studies in the Department of Music.

General Requirements

Candidates for the Master of Music degree must complete a minimum of 32 hours of approved course work and maintain a minimum graduate grade point average of 3.0. Only applied music grades of "A" or "B" will count toward requirements for the degree. The student must remove all deficiencies identified by admission examinations. The deficiencies may be removed by satisfactorily completing additional coursework in deficiency areas as directed by the Graduate Committee. All candidates for the Master of Music degree must pass written and oral comprehensive exams. Performance majors must present at least one public recital. The recital content and length must be approved by the Graduate Committee.

Graduate Committee

The Director of Graduate Studies in the Department of Music with approval of the chair and advisement of the faculty, shall appoint for each student a Graduate Committee of not fewer than three faculty members from the Music Department. Members of the committee should represent the various areas of applied music, music theory, music history, and music education. The committee will review the candidate's advisory examinations, construct and approve a final form of the program, and administer the final comprehensive examination.

MASTER OF MUSIC DEGREE

Music Education

Choral (Code No. 880)

- I. Prerequisites for admission:** (1) A bachelor's degree in music, (2) completion of requirements for public school certification in Music, and (3) completion of advisory examinations.
- II. Course Requirements**
- A. Music Education (10 hours)**
- MUSIC 5112 Introduction to Music Research
 - MUSIC 5302 Music Program Administration
 - MUSIC 5512 Advanced Vocal Methods
 - MUSIC 5762 Advanced Conducting
 - MUSIC 5882 Foundations of Music Education
- B. Music History and Literature (6 hours)**
- MUSIC 5542 Advanced Choral Literature (Required)
- Choose two of the Music History courses below:
- MUSIC 5172 Music of the Baroque
 - MUSIC 5702 Music of the Classic Era
 - MUSIC 5752 Music of the Romantic Era
 - MUSIC 5802 Music of the Twentieth Century
- C. MUSIC 5102 Forms and Analysis (2 hours)**
- D. Individual Voice Lessons (3 to 6 hours)**
- E. Choral Ensemble (2 to 4 hours)**
- F. Electives (5 to 10 hours)**
- These courses must be approved before enrollment by the student's graduate committee. Choices and approval will reflect the results of the advisory exams. No more than two hours may be from workshops. A thesis reflecting substantive scholarly activity is strongly recommended.
- G. MUSIC 5100 Final Comprehensive Examination**

MASTER OF MUSIC DEGREE

Music Education

Instrumental

(Code No. 880)

- I. Prerequisites for admission:** (1) A bachelor's degree in music, (2) completion of requirements for public school certification in music, and (3) completion of advisory examinations.
- II. Course Requirements**
- A. Music Education** (10 hours)
- MUSIC 5112 Introduction to Music Research
 - MUSIC 5252 Instrumental Problems
 - MUSIC 5302 Music Program Administration
 - MUSIC 5762 Advanced Conducting
 - MUSIC 5882 Foundations of Music Education
- B. Music History and Literature** (6 hours)
- MUSIC 5482 Advanced Instrumental Literature (Required)
- Choose two of the Music History courses below:
- MUSIC 5172 Music of the Baroque
 - MUSIC 5702 Music of the Classic Era
 - MUSIC 5752 Music of the Romantic Era
 - MUSIC 5802 Music of the Twentieth Century
- C. MUSIC 5102 Forms and Analysis** (2 hours)
- D. Individual Lessons-Major Instrument** (3 to 6 hours)
- E. Instrumental Ensemble** (2 to 4 hours)
- F. Electives** (5 to 10 hours)
- These courses must be approved by the student's graduate committee. Choices and approval will reflect the results of the advisory exams. No more than two hours may be from workshops. A thesis reflecting substantive scholarly activity is strongly recommended.
- G. MUSIC 5100 Final Comprehensive Examination.**

MASTER OF MUSIC DEGREE

Music Education

Piano Pedagogy (Code No. 880)

- I. Prerequisites for admission:** (1) A bachelor's degree in music, (2) completion of requirements for public school certification in music, and (3) completion of advisory examinations.
- II. Course Requirements**
- A. Music Education (10 hours)**
- MUSIC 5112 Introduction to Music Research
 - MUSIC 5012 Seminar in Advanced Piano Pedagogy
 - MUSIC 5302 Music Program Administration
 - MUSIC 5762 Advanced Conducting
 - MUSIC 5882 Foundations of Music Education
- B. Music History and Literature (6 hours)**
- MUSIC 5012 Seminar in Advanced Piano Literature (Required)
- Choose two of the Music History courses below:
- MUSIC 5172 Music of the Baroque
 - MUSIC 5702 Music of the Classic Era
 - MUSIC 5752 Music of the Romantic Era
 - MUSIC 5802 Music of the Twentieth Century
- C. MUSIC 5102 Forms and Analysis (2 hours)**
- D. Individual Piano Lessons (3 to 6 hours)**
- E. Ensemble (Choral/Instrumental/Accompanying) (2 to 4 hours)**
- F. Electives (5 to 10 hours)**
- These courses must be approved by the student's graduate committee. Choices and approval will reflect the results of the advisory exams. No more than two hours may be from workshops. A thesis reflecting substantive scholarly activity is strongly recommended.
- G. MUSIC 5100 Final Comprehensive Examination.**

MASTER OF MUSIC DEGREE

Performance

(Code No. 870)

- I. Prerequisites for admission:** (1) a bachelor's degree in music, (2) completion of advisory examinations and entrance audition.
- II. Course Requirements**
- A. Applied Music** (10 hours)
Applied Music study (individual lessons) in major area (8 hours)
MUSIC 5972 Graduate Recital and Research (2 hours)
- B. MUSIC 5112** Introduction to Music Research (2 hours)
- C. Music History and Literature** (6 hours)
(Choose two of the Music History courses below)
MUSIC 5172 Music of the Baroque
MUSIC 5702 Music of the Classic Era
MUSIC 5752 Music of the Romantic Era
MUSIC 5802 Music of the Twentieth Century
Choose the one two-hour course below that is appropriate to your performance emphasis:
MUSIC 5482 Advanced Instrumental Literature
MUSIC 5002 Individual Study in Solo Materials
OR MUSIC 5012 Seminar in Solo Materials
- D. Music Pedagogy**
Choose the appropriate course(s) from the list below:
MUSIC 5012 Seminar in Advanced Piano Pedagogy (Piano Majors)
MUSIC 5402 Seminar in Advanced Individual Instrumental Techniques (Orchestral Instrument Majors)
MUSIC 5012 Seminar in Advanced Vocal Pedagogy (2 hours) (Voice Majors)
MUSIC 5782 Language Diction (2 hours) (Voice Majors)
- E. MUSIC 5102** Forms and Analysis
- F. Ensemble** (appropriate to degree emphasis; 2 to 4 hours)
- G. Electives** (6 to 8 hours)
These courses must be approved by the student's graduate committee. Choices and approval will reflect the results of the advisory exams.
- H. MUSIC 5100** Final Comprehensive Examination

MASTER OF SCIENCE DEGREE

Area of Specialization

Community Counseling

Admission Requirements for Graduate Degree Programs in Psychology

The deadlines for application for the M.S. programs in Community Counseling and the M.Ed. programs in School Counseling, School Psychometry, and Community Counseling are June 1, for the Fall Semester and November 1, for the Spring Semester. Application will not be accepted for Summer admission. In addition to the University and graduate studies admission requirements, applicants for graduate programs in Psychology must meet the following conditions:

1. Prerequisites for acceptance into the M.S. programs in Community Counseling:
An undergraduate or graduate statistics course and two additional courses in either Psychology or Educational Psychology.
2. An undergraduate GPA of 2.50 (on a 4.00 scale) or above **and** a satisfactory minimum score with respect to the combination of GPA and GRE scores is required:
 $GPA \times 150 + GRE^1 = 1100$
The GRE is waived for students who have an undergraduate grade point average equal to or greater than 2.75 on a 4.00 point scale
3. Applicants must submit two professional recommendations completed by individuals who are in a position to rate academic aptitude, motivational and character factors (forms are available in the Graduate Office or on our web site). Forms should be sent directly from the reference to the Graduate Office. Applicants must also submit an original OSBI Background Check. The procedure for completing the check is in the application packet.
4. Acceptance into any of the Psychology Master programs will require completing an interview. The interviews will be scheduled for the second Friday of June for Fall applicants and the second Friday of November for Spring applicants.
5. Candidates in the areas of School Counseling and School Psychometry must complete:
Entry Level Portfolios for Admission and Culminating Portfolios the final semester of graduate school.
(Specific guidelines are available on the Psychology Department web site.)
6. Upon acceptance into any of these graduate programs, the candidate must successfully complete a Plan of Study with his/her advisor.
7. Placement into the LPC internship courses requires approval from the Departmental Internship/Practicum Approval Committee (IPAC).

(Meeting the minimum standards does not guarantee acceptance into the program.)

¹The GRE score will be a sum of the scores on the verbal test and the quantitative test.

MASTER OF SCIENCE DEGREE

Area of Specialization

Community Counseling

(Code No. 839)

I. Required Professional Education and Psychology Core (15 hours)

COUN	5893	Ethical, Legal/Professional Standards
COUN	5593	Advanced Tests & Measurements
COUN	5513	Introduction to Counseling & Guidance
PSYCH	5143	Research Methods
EDPSY	5743	Life Span Development

II. Required Community Counseling Specialization Core (18 hours)

PSYCH	5633	Advanced Abnormal Psychology
COUN	5213	Community Counseling
COUN	5373	Theories/Techniques Family Counseling
COUN	5543	Theories of Counseling
COUN	5553	Theories/Techniques Group Counseling
COUN	5563	Practicum in Counseling (150 clock hours)

III. Capstone Experience

EDUC	5950	Graduate Capstone Experience (must be completed during final semester)
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IV. Total Required for the Master's Degree - 33 Hours

THIS PROGRAM DOES NOT LEAD TO CERTIFICATION AS A SCHOOL COUNSELOR

Completion of the Master of Education Degree in Community Counseling does not fulfill examination eligibility requirements for the Licensed Professional Counselor (LPC) Act. Check with your advisor for information regarding this licensure.

Community Counseling

Licensed Professional Counselor (LPC)

Upon completion of the Master of Science degree in Community Counseling, the following courses are required for eligibility for the State of Oklahoma Licensure LPC Examination.

PSYCH 4223	Media and Mental Illness
COUN 5423	Multicultural Concepts
PSYCH 5133	Crisis Intervention Techniques
PSYCH 5223	Techniques of Psychotherapy
COUN 5713	Wechsler Intelligence Scale
PSYCH 5413	Personality Theories/Research
COUN 5523	Career Counseling
COUN 5613	Internship in Counseling (150 clock hours)
	Plus one more elective approved by advisor.

Applicable courses taken in the Master of Science degree Professional Education and Psychology Core and Specialization Hours	33
For LPC Community Counseling Licensure Track Hours.....	<u>27</u>
Total Hours	60

NOTE: SUCCESSFUL COMPLETION OF THIS COURSE SEQUENCE QUALIFIES THE CANDIDATE FOR LICENSURE EXAMINATION ELIGIBILITY.

MASTER OF SCIENCE DEGREE

Area of Specialization

Management

(Code No. 861)

ADMISSION REQUIREMENTS

1. Bachelor's degree from a college or university accredited by a regional accrediting association is required.
2. A **University Application for Admission or Readmission** should be completed and sent to the Registrar's Office.
3. International admissions: students for whom English is a second language wishing to be considered for admission to Graduate Studies must provide results of TOEFL with a minimum score of 550. See Graduate Studies pages for other international requirements.

The following should be completed and sent to the Graduate Office:

4. **Application for Graduate Admission**
5. **Official** transcript(s) of all credit earned
6. **Two recommendation forms** from individuals qualified to rate the applicant's academic aptitude, motivation, and professionalism
7. **One of the following must be met:**
 - A. An undergraduate GPA of 3.0 or greater on a 4.0 scale
 - B. An undergraduate GPA of greater than 2.5 and below 3.0 on a 4.0 scale and a minimum of a 3.0 graduate GPA average after completing the first six to nine (6 to 9) hours of graduate course work.
 - C. An undergraduate GPA of greater than or equal to 2.0 and below 2.5 on a 4.0 scale and a satisfactory minimum score with respect to the combination of GPA and GRE scores:

$$\text{GPA} \times 150 + \text{GRE}^* = 1200$$

*The GRE score will be the sum of the scores on the verbal test and either the quantitative test or the analytical test.

For more Admission information, please see the Introduction portion of the Graduate Catalog.

7. When the graduate admissions file is complete, the file will be evaluated to determine admissibility to the M.S. in Management Program.
 - Applicants who fail to meet these requirements *may* be admitted on a probationary basis at the discretion of the School of Business and Technology Director of Graduate Programs.
8. After admission, meet with SoBT Director of Graduate Programs and complete a **Plan of Study**. A specific discipline area must be chosen from the following: Accounting, Computer Science, Finance, Management, Marketing, and Technology. A copy must be on file with the Director of Graduate Programs during the semester of admission. See NOTE.

PREREQUISITES

Basic knowledge of Principles of Management and Marketing; this requirement may be satisfied with evidence of satisfactory completion of undergraduate course work (SWOSU MNGMT 3233 and MRKTG 3143), CLEP, qualifying examinations, or equivalency as determined by the office of the School of Business and Technology Director of Graduate Programs.

COURSE WORK REQUIREMENTS

All M.S. students must complete a 18 hour required core with an additional 3-6 hours of Management electives (not taken at undergraduate level) as described below and 9-12 hours of guided electives in the chosen discipline.

I. Required M.S. Core (18 hours)

ENTRP	5143	Managerial Jurisprudence
MNGMT	5153	Managerial Ethics
MNGMT	5163	Managerial Leadership & Budgeting
MNGMT	5433	Advanced Human Resource Management
MNGMT	5533	Management & Organizational Behavior
MRKTG	5263	Marketing Strategy

II. 3-6 hours Management electives (not previously taken at undergraduate level)

Current Options:

MNGMT	4133	Production Operations Management
MNGMT	4433	Entrepreneurship & New Venture
MNGMT	4633	International Management
MNGMT	5313	Event Management
MNGMT	5323	Project Management
MNGMT	5333	Internship in Management

III. 9-12 hours of guided electives in discipline option. Electives are to be selected by School of Business and Technology Director of Graduate Programs, the student, and a representative of the chosen discipline.
[**Discipline options:** Accounting, Computer Science, Finance, Management, Marketing, & Technology]

GRADUATION REQUIREMENTS

1. **Completion** of an approved 33-hour program of required and elective courses.
2. **Maintenance** of a grade point average of 3.0 (4.0 scale) with no more than six hours of “C” grade accepted toward degree requirements.
3. With the assistance of the Director of Graduate Programs, complete an **Application for Admission to Candidacy** after the completion of 24-30 semester hours of graduate work. Obtain appropriate signatures and submit the Application for Admission to Candidacy form to the Graduate Office (EDU 104). The completed/signed form must reach the Graduate Office by the first Monday after the close of the drop/add date of the semester in which you intend to graduate (13th day of the Fall or Spring semester, or 10th day of the Summer Semester).
4. File an **Application for Graduation** with the Registrar. This application should be submitted to the Registrar’s Office during the *first two weeks* of the semester in which the student expects to graduate.

NOTE: MS in Management students must have their Plan of Study approved by the Director of Graduate Programs prior to enrolling.

COLLEGE OF ARTS AND SCIENCES

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer,
D = Classes offered upon Demand)
(O = Odd years, E = Even years)

DEPARTMENT OF ART

ART 3113 WATERCOLOR STUDIO

Study and practice of traditional transparent watercolor technique, and experimentation with contemporary methods. Emphasis on composition, color, process and technique. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 3153 FIGURE DRAWING

Develop skills of draftsmanship and perception while studying the figure. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 3213 COMPUTER GRAPHICS

Basic concepts of computer graphics for artists, art teachers and designers. Topics include pixel and object oriented graphics as well as 3-D concepts. Content is designed to provide a functional ability to maintain a graphics Macintosh, control image quality, scanners and printers. **Prerequisites:** ART 1123, ART 1133, and ART 2133. **D**

ART 3353 CLAY STUDIO

A study in ceramic design using both hand built and wheel methods of construction. Firing and glazing procedures will also be covered. **F, S, SU**

ART 3413 SCULPTURE STUDIO

Three-dimensional work in the area of sculpture. Emphasis is placed on fundamental sculpture techniques and the elements of art and principles of design as applied in a three-dimensional composition. **Prerequisites:** ART 1123, ART 1133, and ART 1143. **D**

ART 3483 PRINTMAKING STUDIO

Printmaking by hand transfer and with the press. Composition and personal expression are emphasized. Intaglio and relief methods are explored. **Prerequisites:** ART 1123 and ART 1133. **F, S**

ART 3513 MEDIA FOR ARTISTS

Introduction to web design using Dreamweaver and Flash programs. **Prerequisites:** ART 1123, ART 1133, and ART 2133. **F**

ART 3613 HISTORY OF ART I

A survey of art from prehistory through the Gothic era, this course considers the visual culture of Ancient Egypt, Mesopotamia, Greece and Rome, the influence of non-Western cultures on Christian art in the west, the art and architecture of Early Christian and Byzantine Europe, and the rise of the Romanesque and Gothic styles. **D**

ART 3653 HISTORY OF ART II

Continuing the survey of art begun in ART 3613, this course follows the Renaissance development of modern ways of seeing, the rise of the Baroque and Rococo, the battle between Neoclassicism and Romanticism during the early nineteenth century, and the optical experiments of the Impressionists and Post-Impressionists. **D**

ART 3683 ILLUSTRATION STUDIO

Visual communication is stressed, expressing both the artist and the subject matter. Traditional illustration media includes marker, color pencil, airbrush, watercolor, acrylic and oil paint. **Prerequisites:** ART 1123, ART 1133, and ART 2133. **D**

ART 3753 LIFE DRAWING

Observational drawing with an emphasis on composition. Various techniques and subjects will be explored. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 3783 PHOTOGRAPHIC/DIGITAL ILLUSTRATION

This course will study photographic illustration beginning with the camera and moving to digital images on the computer. Illustration as an expressive form of communication is stressed. Projects will concern composition, lighting,

darkroom techniques and computer illustration in Adobe Photoshop.

Prerequisites: ART 1123, ART 1133, and ART 2133. **D**

ART 3853 TYPOGRAPHIC DESIGN

Course content includes the anatomy of typographical letter forms, fonts and classifications. Syntax, space, visual hierarchy, typographical grids, function, expression and communication theory are stressed. Course work will be done on Power Macintosh computers, using QuarkXpress and Adobe Illustrator software. **Prerequisites:** ART 1123, ART 1133, and ART 2133. **D**

ART 3883 ADVERTISING DESIGN

Course work includes logo and corporate identity development. Traditional advertising formats are studied and applied to a fictional company created by the student. **Prerequisites:** ART 1123, ART 1133, ART 2133, ART 2143, and ART 3853. **D**

ART 3923 PUBLICATION DESIGN

Layout and design of various types of publications, including mailers, brochures, catalog, magazine and book design. **Prerequisites:** ART 1123, ART 1133, ART 2133, ART 2143, and ART 3853. **D**

ART 3953 PROFESSIONAL PRACTICES OF GRAPHIC DESIGN

This course provides the student practical real-world experience in the field of design. It should be approached as an internship, and subsequently the requirements can be achieved effectively through a summer internship with an appropriate agency under supervision of an instructor. Not recommended for Design Studio Employees. **Prerequisites:** ART 1123, ART 1133, ART 2133, ART 2143 and ART 3853. **D**

ART 4001-4 INDIVIDUAL STUDY IN ART (TOPIC)

Individual study of specified topic for undergraduate students. Credit 1 to 4 semester hours.

ART 4011-4 SEMINAR IN ART (TOPIC)

Group study of specified topic for undergraduate students. Credit 1 to 4 semester hours. **D**

ART 4163 PORTFOLIO

The objective of this course is to prepare Graphic Design majors for the job market. Students will research the current job market and prepare a career plan. A portfolio will be created with a resume, a self-promotional mailer and 35 mm slides. **Prerequisite:** Sr. Status. **S**

ART 4253 APPLIED DESIGN

A studio course involving the design, execution and the study of contemporary trends in crafts. **Prerequisites:** ART 1123 and ART 1133. **SO**

ART 4313 PAINTING STUDIO

An exploration of opaque painting techniques and processes. The development of pictorial form and content is emphasized. **Prerequisites:** ART 1123 and ART 1133. **D**

ART 4333 STUDIO DRAWING

Studio Drawing will explore creative and expressive approaches to drawing with an emphasis on diversity of techniques. Experiences utilizing a variety of media will be used to develop fundamental and advanced drawing concepts. **Prerequisites:** ART 1123 and ART 1133. **S**

ART 4353 MODERN ART HISTORY

This course, continuing the survey of art begun in ART 3613 and ART 3653, investigates the history of painting, sculpture and architecture from the late nineteenth century through World War II. Symbolism, Post-Impressionism, Cubism and Expressionism are among the trends discussed, as are the art of Picasso, Duchamp, Klimt and Dali. **D**

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ART 4383 ART HISTORY SINCE 1945

This survey, completing the series begun with ART 3613, 3653 and 4353, traces the development of art from the rise of the New York School to the present day. Among the topics discussed are Abstract Expressionism, Pop and Op Art, and the art of Jackson Pollock, Mark Rothko, Andy Warhol and Keith Haring. **D**

ART 4393 NON-WESTERN ART HISTORY

Supplementing rather than replacing the traditional art survey, this course examines the history of art and visual culture of non-Western civilizations, with emphasis on Asia, Africa, Oceania and native America. Topics include the art of Japan, China and Nigeria, as well as the visual legacy of the Aztec, Mayan and Incan civilization. **D**

ART 4413 PACKAGE DESIGN

Explores problems dealing with three-dimensional design and product identity. Projects include multi-piece product lines and site-specific displays. **Prerequisites:** ART 1123, ART 1133, ART 2133, ART 2143 and ART 3853. **S**

ART 4452 CONTENT, METHODS AND MATERIALS IN ELEMENTARY SCHOOL ART

Current methods of applying Discipline-Based Art Education will be used to explore ways to integrate the visual arts into the elementary grades. **Prerequisite:** Admission to Teacher Education Program. **F, S**

ART 4553 TEACHERS' COURSE IN ART

This course explores methods of teaching visual art at the secondary level. In-depth attention will be given to the application of Discipline-Based Art Education assignments at this level. **Prerequisites:** Art major or endorsement and admission to the Teacher Education Program. **D**

ART 5001-4 INDIVIDUAL STUDY IN ART (TOPIC)

Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

ART 5011-4 SEMINAR IN ART (TOPIC)

Group study of specified topic in art for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

ART 5651 GRADUATE EXHIBIT

Students will prepare and present a body of work produced as a graduate. Emphasis will be on professionalism in presentation as well as artwork selected.

DEPARTMENT OF BIOLOGICAL SCIENCES

BIOL 3012 BIOLOGICAL TERMINOLOGY

The course is designed to familiarize the students with the terminology used in biological disciplines. This familiarization will be accomplished by learning root words, prefixes, and suffixes from Latin and Greek and by studying word analysis techniques. **F, S**

BIOL 3254 GENETICS

This course will present an introduction to transmission genetics and molecular genetics. Mendelian genetics and its extensions, linkage analysis in eukaryotes, and genetic analysis of bacteria and bacteriophages make up the transmission genetics core. The structure and function of DNA, and how it is replicated as well as how genes are transcribed, translated, and regulated, make up the molecular genetics core. **Prerequisites:** BIOL 1054. **F, S**

BIOL 3304 AQUATIC BIOLOGY

An introduction to freshwater ecosystems (rivers and lakes) with respect to their physical, chemical, and biological structure. These diverse aspects are united in the concept of trophic status. Adaptations of organisms to the aquatic environment are emphasized. The laboratory involves extensive field studies in local aquatic environments. Collection methods, analytical techniques and data analysis are emphasized. **Prerequisites:** BIOL 1054, CHEM 1203, 1252, 1303, 1352. **Recommended:** BIOL 2204 and 2404, or permission of Instructor. **FE**

BIOL 3504 NATURAL HISTORY

This course will examine natural history and biodiversity of vertebrates with emphasis on principles of evolution, systematics, ecology, and behavior and the development of field biology techniques for the study of Oklahoma communities. Laboratory includes extended studies conducted on one of three departmental field areas and 2-3 required weekend field trips. **Prerequisites:** BIOL 1054, 2022, 2204, and 2404. **FO**

BIOL 3604 GENERAL ENTOMOLOGY

This course will examine the basic biology of insects; their morphology, physiology, evolution, behavior, and ecology. The economic impact of insects and control measures will also be examined. The laboratory will emphasize the collection, curation, and identification of insects. **Prerequisites:** BIOL 1054 and 2204. **Recommended:** Junior or Senior Standing **FE**

BIOL 4001-4 INDEPENDENT STUDY IN BIOLOGICAL SCIENCES (TOPIC)

Independent study of a specified topic for undergraduate students. Credit one to four hours. **F, S, SU**

BIOL 4010-4 SEMINAR IN BIOLOGY (TOPIC)

Group study of specified topic for undergraduate students. Credit one to four semester hours. **F, S, SU**

BIOL 4154 DEVELOPMENTAL BIOLOGY

In this course the students will explore the synthesizing of vertebrate and invertebrate organisms. In addition, the cellular and molecular aspects of animal development will be covered. The course will also expose the students to the medical implications of developmental biology. **Corequisite:** BIOL 4154L. **Recommended:** BIOL 1054 & 2204 & 3254. **Enrollment by signature of instructor only.**

BIOL 4284 ANIMAL PARASITOLOGY

A study of the animal parasites of man and the higher vertebrates; their life cycles; distribution, diagnosis, prevention and control measures. **Prerequisites:** BIOL 1004 or 1054. **Recommended:** 2204, 2714 or 3704, and 3904. **S**

BIOL 4314 ENVIRONMENTAL BIOLOGY

The study of anthropogenic (man-made) effects of pollution on the environment, including the effects of plant and animal life as well as humans. **Prerequisites:** BIOL 1054; CHEM 1203, 1252, or permission of instructor. **FO**

BIOL 4454 PLANT TAXONOMY

A study of the history, literature, and principles of plant taxonomy, with emphasis on the flowering plant flora of Oklahoma. **Prerequisites:** BIOL 1054 and 2404. **Recommended:** BIOL 3254. **SE**

BIOL 4604 GENERAL ECOLOGY

This course will examine the interactions among organisms and the interactions between organisms and their environment that affect distribution and abundance. **Prerequisite:** BIOL 1054. **Recommended:** BIOL 2204, 2404, 3254; Junior or Senior standing **SO**

BIOL 4622 ECONOMICALLY IMPORTANT PLANTS

A brief survey of plants of economic importance throughout the world. Essential food, drug, textile-fiber and industrially valuable plants will be discussed in relationship to world economy and human population. **Prerequisites:** BIOL 1054 and 2404. **Recommended:** BIOL 3254. **FE**

BIOL 4933 CELLULAR PHYSIOLOGY

A study of the fundamental life processes at the cellular level. **Prerequisites:** BIOL 1004 or 1054. **Recommended:** CHEM 3013. **FO**

BIOL 4964 MOLECULAR BIOLOGY

This course will examine the structure and function of DNA, RNA, and proteins at the molecular level. The laboratory experiments will incorporate a variety of techniques that are routinely used in genetic engineering. **Prerequisites:** BIOL 1054 and 3254. **Recommended:** Junior or Senior standing. **SO**

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BIOL 4974 HISTOLOGY

A study of the microanatomy and functional aspects of normal animal tissues.
Prerequisites: BIOL 1004 or 1054. **Recommended:** BIOL 3704 and 3904. SE

BIOL 5001-4 INDIVIDUAL STUDIES IN BIOLOGY (TOPIC)

Individual study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate Program. F, S, SU

BIOL 5011-4 SEMINAR IN BIOLOGY (TOPIC)

Group study of specified topic for graduate students. Credit 1 to 4 semester hours. **Prerequisite:** Admission to the Graduate program. F, S, SU

BIOLOGY CREDIT FOR SUMMER ACTIVITIES

Students who attend summer courses at the Gulf Coast Marine Research Laboratory (with which SWOSU is affiliated), the University of Oklahoma Biological Station, or other institutions of higher education, may be able to use those courses toward their biology degree. Likewise, students may earn college credit for some summer research positions and internships. Students who are considering such courses should meet with the Department Chair, prior to enrolling, to determine if these courses may be used toward their degree.

DEPARTMENT OF CHEMISTRY AND PHYSICS

CHEM 3013 ORGANIC CHEMISTRY I

An introduction to organic chemistry. Emphasis is placed on structure and reaction mechanisms. The chemistry of hydrocarbons is developed in detail. **Prerequisites:** CHEM 1303 and CHEM 1352. F, S, SU

CHEM 3015 ORGANIC CHEMISTRY I

Same as 3013 except that theoretical principles are presented in more detail. The accompanying laboratory meets six hours each week and the instruction in modern instrumental techniques is more rigorous than in CHEM 3111. The course is designed for students majoring in chemistry and other science areas. **Prerequisites:** CHEM 1303 and CHEM 1352. F

CHEM 3111 ORGANIC CHEMISTRY I LABORATORY

Methods of separation of mixtures and determination of the physical and structural properties of compounds are emphasized. Spectroscopy and chromatography are introduced with some applications. **Prerequisites:** CHEM 1303 and CHEM 1352. **Corequisite:** CHEM 3013. F, S, SU

CHEM 3124 QUANTITATIVE ANALYSIS

An introductory course in analytical chemistry which includes sampling, separations (precipitation, solvent extraction, ion exchange, chromatography); and determinations (by titrimetry, gravimetry, colorimetry, and potentiometry techniques). **Prerequisites:** CHEM 1303 and CHEM 1352. F

CHEM 3234 INORGANIC CHEMISTRY

A study of advanced principles of inorganic chemistry. Major topics include 1. Structure and bonding theories; 2. Transition metal coordination chemistry; and 3. Organometallic chemistry. The lab meets three hours each week and focuses on the synthesis (including inert atmosphere and vacuum line techniques), purification (including chromatography and crystallization techniques), and characterization (including magnetic susceptibility, conductivity, UV-Vis, IR, NMR, X-ray diffraction, and mass spectra) of inorganic ligands and complexes. **Prerequisite:** CHEM 4113 or CHEM 4115. SE

CHEM 3244 ENVIRONMENTAL CHEMISTRY

Lecture, lab, and field course designed to provide broad based general knowledge of environmental chemistry, biology, and geology, especially including chemistry dealing with origins, transport, reactions, effects, and fates of chemical species in the water, air, soil, and living environments. Laboratory will include a field component incorporating sampling techniques and methods of analysis. **Prerequisites:** CHEM 4113 or CHEM 4115 or CHEM 2114 or by consent of instructor. SO

CHEM 4001-4 CHEMISTRY RESEARCH

Individual students may arrange for a variety of laboratory research studies. Credit one to four hours. D

CHEM 4011-4 SEMINAR IN CHEMISTRY (TOPIC)

Credit is assigned for the completion of directed reading programs, seminars and similar activities. Credit one to four semester hours. **Prerequisite:** Departmental approval. D

CHEM 4021 ORGANIC CHEMISTRY II LABORATORY

Preparation and identification of organic compounds are emphasized. Spectroscopic and chromatographic techniques are utilized. **Prerequisites:** CHEM 3013 and CHEM 3111 or CHEM 3015. **Corequisite:** CHEM 4113. F, S, SU

CHEM 4113 ORGANIC CHEMISTRY II

A continuation of CHEM 3013. Preparations, properties, and reactions of organic functional groups with emphasis on biomolecules. **Prerequisites:** CHEM 3013 and CHEM 3111. F, S, SU

CHEM 4115 ORGANIC CHEMISTRY II

A continuation of CHEM 3015. Preparation, properties, and reactions of organic functional groups. The laboratory meets six hours each week and emphasizes the preparation and identification of organic compounds. **Prerequisite:** CHEM 3015 or departmental approval. S

CHEM 4124 BIOCHEMISTRY

An introductory course involving the study of the physical and chemical properties of compounds associated with the chemistry of life processes and an introduction to metabolism, especially carbohydrate degradation and nucleic acid and protein biosynthesis. **Prerequisite:** Eight hours of organic chemistry or permission of instructor. F, S

CHEM 4223 POLYMER CHEMISTRY

The synthesis, testing and industrial application of intermediate and high molecular weight polymers. Includes three hours of laboratory per week. **Prerequisites:** CHEM 4113 and CHEM 4021 or CHEM 4115 and concurrent or prior enrollment in CHEM 4344. D

CHEM 4234 INSTRUMENTAL ANALYSIS

Theory and practice in the use of instrumental methods utilized in chemical analysis. **Prerequisites:** CHEM 3124, CHEM 4454, or departmental approval. D

CHEM 4254 INDUSTRIAL CHEMISTRY AND ENVIRONMENTAL REGULATIONS

Critical examination of chemical innovation and emerging technologies in chemical production, use, and disposal for the protection of worker safety, public health, and the environment, including pollution prevention and remediation strategies, emissions monitoring and regulatory compliance, waste treatment, and resource conservation and recovery. **Prerequisites:** CHEM 4113 or CHEM 4115 or CHEM 2114. SE

CHEM 4344 PHYSICAL CHEMISTRY I

A fundamental course in physical chemistry for students majoring in chemistry and related fields. Topics include gas laws, kinetic molecular theory, introduction to quantum theory, statistical thermodynamics, classical thermodynamics, thermochemistry, chemical equilibrium, the thermodynamic behavior of multi-component systems, phase rule, etc. **Prerequisites:** CHEM 3124 and CHEM 4115; MATH 3834; 10 hours of physics. F

CHEM 4454 PHYSICAL CHEMISTRY II

A continuation of CHEM 4344. Topics include rates and mechanisms of chemical reactions, photochemistry, quantum mechanics and atomic structure, theory of chemical bonding, experimental study of molecular structure-spectroscopic methods, crystal structure. **Prerequisite:** CHEM 4344. S

CHEM 4554 ADVANCED ORGANIC SPECTROSCOPY

In-depth study of instrumental techniques including nuclear magnetic resonance, infrared, ultraviolet/visible, and mass spectroscopy to identify or verify organic molecules of moderately complex structure. Efficient interpretation of structure is emphasized by establishing features such as overall carbon framework, presence and location of functional groups, regiochemistry of substituents, and stereochemistry of chiral centers. **Prerequisites:** CHEM 4115 and CHEM 4234 or departmental permission. D

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CHEM 4673 ADVANCED METABOLISM

Study of metabolic reactions and biochemical processes of living organisms. An understanding of enzymes, utilization of energy, synthesis of compounds, interrelationships among various metabolic pathways, hormone function, and metabolic regulation is developed. **Prerequisite:** CHEM 4124. **D**

CHEM 5001-4 INDIVIDUAL STUDY IN CHEMISTRY

Individual study of specified topic for graduate students. Credit one to four semester hours. **D**

CHEM 5011-4 SEMINAR IN CHEMISTRY (TOPIC)

Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

CHEM 5052 BASIC TOPICS IN CHEMISTRY

A course for secondary school teachers on the fundamental principles of chemistry. Selected topics are studied in considerable depth. **Prerequisite:** Admission to the Graduate Program. **D**

PHY 3013 MATERIALS SCIENCE

An introductory, interdisciplinary course about the fundamental properties of solid materials. Topics include: atomic and crystalline structure, diffusivity, imperfections, mechanical testing, deformation, hardening techniques; electrical magnetic, optical, thermal, corrosive and wear properties. Materials discussed include ferrous and nonferrous alloys, ceramics, polymers, and composites. **Prerequisite:** PHY 1054, PHY 1064, PHY 2155, CHEM 1203, or consent of the instructor. **D**

PHY 3112 EXPERIMENTAL TECHNIQUES

Study of the techniques and devices used in experimental physics including lasers, vacuum systems, temperature measurements, photographic emulsions, spectrometers and particle detectors; procedures of data analysis. **Prerequisites:** PHY 2155, MATH 2834. **D**

PHY 3243 LINEAR CIRCUIT ANALYSIS

Study of circuit theorems, AC networks, resonant structures, transmission lines, and transfer characteristics. **Prerequisites:** PHY 1072, PHY 2155, and MATH 3834. **D**

PHY 3303 HISTORY OF PHYSICS

A fascinating study of ideas, people, events, and technology in the development of physics from the ancient Greeks to modern times, including a discussion of the limitations of the scientific method and of how science is really done. **D**

PHY 3311 MODERN PHYSICS LABORATORY

A laboratory course which teaches about the equipment and techniques necessary, and then uses these to detect radiation and to measure fundamental properties of atoms, alpha and beta (electrons) particles, x-rays and gamma rays, etc. **Corequisite:** PHY 3403. **S**

PHY 3383 MUSICAL ACOUSTICS

Fundamentals of vibratory motion, description of sound, the physiological and psychological aspects of sound, production of musical sound, electronics and music, room acoustics, and musical instruments. **D**

PHY 3403 MODERN PHYSICS FOR ENGINEERS

The topics of spatial relativity, atomic and molecular physics, solid state physics, statistical physics, and nuclear physics are introduced along with engineering applications. **Prerequisite:** PHY 2155. **Corequisite:** MATH 3834. **S**

PHY 3413 ANALOG ELECTRONICS

Lecture and laboratory study of basic network and semiconductor theory; Kirchhoff, Thevenin, and Norton theorems, characteristics of solid-state components and their application in power supplies, amplifiers, oscillators, and operational amplifier. **Prerequisites:** PHY 1072, PHY 2155, and MATH 3834 or instructor approval. **D**

PHY 3424 OPTICS

Lecture and laboratory study of geometrical and physical optics, including lenses, mirrors, interference, polarization, diffraction, dispersion and quantum optics. **Prerequisites:** PHY 2155 and MATH 3834. **D**

PHY 3501 PHYSICS SEMINAR (TOPIC)

Course for students to gain experience in reporting a scientific and technical topic to peers; an oral and a written report on a subject of current interest in physics is required. **Prerequisite:** 18 hours of physics or consent of instructor. **D**

PHY 3523 SOLID-STATE AND NUCLEAR PHYSICS

Lecture and laboratory study of nuclear models, nuclear reactions, classical and quantum statistics, molecular spectroscopy, crystal structure and band theory of solids, and semiconductor devices. **Prerequisite:** PHY 3403 and MATH 4213. **D**

PHY 3544 DIGITAL ELECTRONICS

Lecture and laboratory study of logic gates and circuits; microprocessor programming and interfacing. **Prerequisite:** PHY 1072. **D**

PHY 3563 THERMODYNAMICS

Study of thermal physics including the zeroth, first and second laws of thermodynamics; enthalpy, entropy, kinetic theory, Maxwell-Boltzmann distribution, specific heats, simple transport phenomena, and power cycle applications. **Prerequisites:** PHY 2155 and MATH 3834. **D**

PHY 3573 HEAT TRANSFER

Study of conduction, convection and radiation heat transfer; properties of materials related to heat transfer; control volume analysis; laminar and turbulent fluid flow; Newton's law of cooling; boiling and cooling; and blackbody radiation. **Prerequisites:** PHY 2155 and MATH 3834. **D**

PHY 3583 METHODS OF THEORETICAL PHYSICS

Study of the application of mathematical procedures to formulate and solve problems of physics; harmonic analysis, matrix theory, physical use of differential equations, functions of complex variables and numerical techniques. **Prerequisites:** PHY 2155 and MATH 3834. **D**

PHY 3603 MECHANICS I

Study of dynamics; conservative motion, central force problems, gravitation, harmonic oscillators, systems of particles, small vibrations, rigid-body dynamics, accelerated reference frames and Lagrange equations. **Prerequisites:** PHY 2155 and concurrent enrollment in MATH 4213. **D**

PHY 3633 FLUID MECHANICS

Study of fluid properties, compressible and incompressible fluids and aerodynamics, fluid statics and dynamics including viscous effects, dimensional analysis, and fluid measurements. **Prerequisites:** PHY 2155 and concurrent enrollment in MATH 4213. **D**

PHY 4001-4 PHYSICS RESEARCH (TOPIC)

Individual research under direction of an individual faculty member on a topic of mutual interest; one to four semester hours credit; topic, credit, and arrangements to be decided prior to enrollment. **Prerequisites:** Consent of instructor and chair of department. **D**

PHY 4011-4 PHYSICS SEMINAR (TOPIC)

Formal study of a topic of current importance in physics or engineering which is not normally included in other courses; one to four semester hours credit. **Prerequisites:** Consent of instructor and chair of department. **D**

PHY 4644 ELECTRICITY & MAGNETISM I

Lecture and laboratory study of electrostatics including Coulomb and Gauss laws, dielectric materials, electrostatic energy, steady currents and magnetic fields, and electromagnetic induction. **Prerequisites:** PHY 2155 and MATH 4213. **D**

PHY 4663 ELECTRICITY & MAGNETISM II

Continuation of 4644 including magnetic properties of matter, magnetic energy of slowly varying currents, Maxwell's equations with applications, and electrodynamics. **Prerequisite:** PHY 4644. **D**

PHY 4723 QUANTUM MECHANICS

An advanced course in modern physics including applications of the Schrodinger equation, spin and magnetic interactions, complex atoms,

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molecules, and quantum statistical physics and its applications. **Prerequisite:** PHY 3403. **Corequisite:** MATH 4213 or consent of the instructor. **D**

PHY 4743 SOLID-STATE PHYSICS

Study of the crystalline state of matter; Debye theory of specific heats, free electron and band theory of metals, insulators, and semiconductors. **Prerequisites:** PHY 3403 and MATH 4213. **D**

PHY 4763 NUCLEAR PHYSICS

Study of theories and applications of nuclear physics; binding energies, nuclear forces, nuclear particles and reactions, nuclear models, and reactor physics. **Prerequisites:** PHY 3403 and MATH 4213. **D**

SCIENCE FOR ELEMENTARY TEACHERS

SCI 4001-4 INDIVIDUAL STUDY IN SCIENCE

Specified topic in science. One to four credit hours. **D**

SCI 4011-4 SCIENCE SEMINAR (TOPIC)

Seminars of individual or group study are based on selected topics in science education. Credit one to four semester hours. **Prerequisite:** Senior college standing. **D**

SCI 4352 TEACHING SCIENCE IN ELEMENTARY SCHOOLS

A course that emphasizes the inquiry-discovery approach to the teaching of elementary science. Course content includes: The structure and processes of science; thinking skills; intellectual development of children; organizing science activities and curricula; and teacher responsibilities. **Prerequisites:** SCI 3114, SCI 3214, and SCI 3314. **F, S**

SCI 4843 TEACHER'S COURSE IN SCIENCE

Methods, problems, and resources in teaching science in the secondary schools. Problems and topics in the middle school and high school are presented. Required for teacher certification in science areas. **Prerequisite:** Admission to Teacher Education Program. **FO**

SCI 5001-4 INDIVIDUAL STUDY IN SCIENCE

Individual study of specified topic for graduate students. Credit one to four semester hours. **D**

DEPARTMENT OF LANGUAGE AND LITERATURE

English

ENGL 3013 WRITING: THEORY AND PRACTICE

This course is an entry point for the major in English Education; it must be completed before continuing with further study in the major. A course designed to introduce the history and background of composition as an aspect of English studies. The course provides a basic background for using composition theory in the teaching of writing, but is not limited to pedagogical concerns. The course is focused on developing an understanding of the written process and practicing writing skills using techniques derived from current composition theory. **S**

ENGL 3603 ENGLISH GRAMMAR

A rudimentary study of traditional English grammar. Designed for the elementary, secondary, or pre-law student who is interested in developing a better command of the English language. **Prerequisite:** ENGL 1213. **F**

ENGL 4001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)

Individual study of specified topic for undergraduate students. Credit one to four semester hours. **D**

ENGL 4011-4 SEMINAR IN ENGLISH (TOPIC)

Group study of specified topic for undergraduate students. Credit one to four semester hours. **D**

ENGL 4423 INTRODUCTION TO LINGUISTICS

A survey of recent linguistic study, including historical development, dialects, usage, and structural and transformational grammar. **F**

ENGL 4453 ADVANCED COMPOSITION

This advanced writing course presents a variety of expository and persuasive techniques beyond the basic level of the 1113 and 1213 English Composition courses. Focusing on the expository essay, with an emphasis on rhetorical aspects of writing, critical thinking, the writing process, research and argumentation. The course encourages students to concentrate on development of their own styles and increase the precision of their written communication skills. Further study and appreciation of the argumentative/persuasive essay's structure is implemented by reading and writing. Topics may vary. **F**

ENGL 4473 ADVANCED CREATIVE WRITING OF POETRY

This workshop is for poets seeking to create work of publishable quality. Publishing format is studied. Conferences with the instructor will be utilized. Group criticism will continue with participation by all members of the workshop. **SE**

ENGL 4483 ADVANCED CREATIVE WRITING OF FICTION

This course is an introduction to the process of writing short fiction with emphasis on the techniques of discovery, invention, organization, and style. The student will gain a better understanding of implementation of plot, character, setting, theme, and tone through examination of both model fiction from contemporary writers and the student's own writing. **FO**

ENGL 4663 CREATIVE NON-FICTION

In this writing intensive workshop course, students will produce their own works of nonfiction as well as read and analyze the nonfiction of professional writers. Creative nonfiction includes the genres of personal essay, memoir and autobiography, travel writing, nature and science writing and literary journalism. The course will address one or more of these genres. Students will utilize reportage, reflection, research, and techniques commonly used in fiction to turn their experiences and observations into stories and essays that are both truthful and artful. **F**

ENGL 4675 TEACHING OF HIGH SCHOOL ENGLISH

Problems and methods for teachers in both junior and senior high school English classes. The course will emphasize teaching of language, literature, and composition, with emphasis on current trends as shown in recent textbooks, journal articles, experimental studies, and curriculum guides. **Prerequisite:** Admission to Teacher Education Program. **F**

ENGL 5001-4 INDIVIDUAL STUDY IN ENGLISH (TOPIC)

Individual study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

ENGL 5011-4 SEMINAR IN ENGLISH (TOPIC)

Group study of specified topic for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

Literature

LIT 3023 LITERATURE: THEORY AND PRACTICE

This course is an entry point for the major in English Education; it must be completed before continuing with further study in the major. The course examines the purposes, origin, and methods of the discipline. Students will study literary examples from the five genres (fiction, poetry, drama, essay, and film) using a variety of critical and theoretical approaches. Additionally, students will learn to write both interpretative essays and research papers and will begin a writing portfolio. Lecture, discussion, peer review, practice in oral delivery of literature. **Prerequisite:** ENGL 1213. **F**

LIT 3033 WORLD MYTHOLOGY

In this course students will study the myths that humans beings have used throughout history to explain their world, including the myths of Greece and Rome, the American Indians, the Norse, the Egyptians, the Mesopotamians, and the Eastern world. Students study the common features of these stories and come to understand how these classic stories reflect and affect our own history, psychology, literature, and religion. **S**

LIT 3113 EARLY WORLD LITERATURE

A survey of world literature from ancient literature through the Renaissance. **SE**

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LIT 3223 ROMANTIC MOVEMENT

History of the Romantic Movement; prose and poetry of the period with particular attention to the works of Wordsworth, Coleridge, Byron, Shelley, and Keats. **D**

LIT 3333 SHAKESPEARE IN CONTEXT

Students will study Shakespeare's plays in the context of his times and read representative works by Shakespeare and by his contemporaries. Two theoretical approaches underpin the course design: new historicism and formalism. Drama and cultural history share importance in understanding the work that produced an unparalleled theatrical achievement. Lecture; discussion; interpretive papers; informal writing; research. **SO**

LIT 3343 WORLD FOLK LITERATURE

Students in this class will gain a greater appreciation and understanding of society's self-definition through folklore phenomena such as orally or imitatively transmitted literature (proverbs, tall tales, urban legends, American Indian myths, cowboy poetry, fairy tales, jokes, folk songs), material culture (prison art, whimsies, quilts) and customs (superstitions). They will explore the characteristics and relationships between literary and folk genres, themes and motifs and study the interplay of folkloric thinking and formal literary expression in texts of all kinds. **FO**

LIT 3443 MIDDLE ENGLISH/CHAUCE

A study of the language and the literature of thirteenth and fourteenth century England, with emphasis on Chaucer. **D**

LIT 3453 AGE OF REASON

A study of British works and authors of approximately the first half of the eighteenth century; attention also given to the social, political and philosophical influences of the period. **D**

LIT 3463 19TH CENTURY AMERICAN REALISM

A course dealing with the broad outlines of the Age of Realism in American literature, with special emphasis on the contributions of the three great realists: Mark Twain, William Dean Howells, and Henry James. **D**

LIT 3493 MODERN DRAMA

Reading and study of American, British, and European plays since Ibsen, with emphasis on the social and political backgrounds, dramatic structure, and literary trends from nationalism to absurdism. **D**

LIT 3513 LITERATURE OF THE AMERICAN WEST

Selected readings in novels, short stories, poetry, criticism and other works by writers of the Trans-Mississippi frontier and Far West; emphasis on historical and cultural interpretation since 1890. **D**

LIT 3523 VICTORIAN POETRY

A study of the major poets of the Victorian era and of the conditions which shaped their work. Emphasis upon Tennyson, Browning, Arnold, Hardy, and Hopkins. **D**

LIT 3533 BRITISH RENAISSANCE DRAMA

A study of British theatre in the late 16th and early 17th centuries. Emphasis is on Kyd, Marlowe, Jonson, Shakespeare, and the Jacobean. **D**

LIT 3543 LITERATURE OF THE SOUTH

Study of selected modern-day Southern writers, with emphasis on the economic, sociological, and political backgrounds reflected in their works. **D**

LIT 3613 AMERICAN ROMANTIC PERIOD

Readings in the American Romantic Period, emphasizing selected works by Whitman, Thoreau, Hawthorne, and Melville. **D**

LIT 4001-4 INDIVIDUAL STUDY IN LITERATURE (TOPIC)

Individual study of specified topic. Credit one to four semester hours. **D**

LIT 4011-4 SEMINAR IN LITERATURE (TOPIC)

Group study of specified topic. Credit one to four semester hours. **D.**

LIT 4113 MODERN WORLD LITERATURE

A survey of world literature from neoclassicism to the present. **Prerequisite: ENGL 1213. FO**

LIT 4473 MODERN BRITISH AND AMERICAN POETRY

Poetry of the twentieth century. **D**

LIT 4593 DIVERSITY IN AMERICAN LITERATURE

This course in contemporary American diversity literature enables the student to analyze conflicts and tensions when cultures and ethnicities collide, while also discovering the richness of difference. It will consider works by representative American authors of Hispanic/Chicano, Black, Native American, Asian, Jewish, and other backgrounds. **FE**

LIT 4623 17TH CENTURY ENGLISH POETRY

Selected readings from the works of Jonson, Donne, and their followers, providing a background for the study of the poetry of Milton. **D**

LIT 4883 WOMEN AND LITERATURE

This course will acquaint student with literature by women from the medieval to the present time and from all over the world, exploring issues these writers raise concerning the lives and art of women. The course will also study images of women in literary works by both men and women. **SE**

LIT 4993 THE NOVEL

In this course students will read and study novels of a particular period or type. Focus will vary from semester to semester and range in period and nationality (for example, 18th Century British Novel, History of the Novel, Victorian Novel, or focus on a particular set of writers). **S**

DEPARTMENT OF COMMUNICATION AND THEATRE

COMM 4001-4 INDIVIDUAL STUDY IN COMMUNICATIONS

Specific topic in Communications. One to four credit hours. **D**

COMM 4011-4 SEMINAR IN COMMUNICATIONS (TOPIC)

Group study of specified topic. One to four credit hours. **D**

COMM 4463 THEATRE HISTORY: GREEK TO 1660

Survey of growth and development of the theatre from its beginnings to 1660 with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **Prerequisite: COMM 1263. FO**

COMM 4663 THEATRE HISTORY: 1660 TO PRESENT

Survey of growth and development of the theatre from 1660 to the present with consideration of dramatic literature, physical theatre, style of presentation, and social significance of theatre. **Prerequisite: COMM 1263 SE**

DEPARTMENT OF MATHEMATICS

MATH 3113 FOUNDATIONS IN MATHEMATICS

An introduction to basic concepts upon which mathematics is founded. Logic, set theory, proof-writing techniques, equivalence relations, mappings. **Prerequisite: MATH 2834 or departmental approval. F**

MATH 3413 STATISTICAL METHODS I

Beginning techniques for students with modest mathematical backgrounds. Emphasis on applications to the biological and physical sciences, business, and education. **Prerequisite: MATH 1513. F, SUE**

MATH 3433 STATISTICS I

An introductory probability and statistics course. The binomial, hypergeometric, poisson, normal, t-, and Chi-square distributions are studied. Other topics including hypothesis testing, linear regression, and analysis of variance. Some work with the statistical software package SPSS. Applications are emphasized. **Prerequisite: MATH 1513. S, SUO**

MATH 3453 MATHEMATICAL STATISTICS

Classical probability theory, discrete and continuous random variables and their probability distributions, properties of expectation, moment generating

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functions, sampling distributions and the central limit theorem are some of the topics. **Prerequisite:** MATH 2834. FO

MATH 3473 INTRODUCTION TO PROBABILITY

Basic concepts of discrete probability are discussed, such as counting techniques, independence, conditional probability, Bayes' Rule, random variables, random walks, and Markov chains.. **Prerequisite:** MATH 2834. SO

MATH 3533 TECHNOLOGY AND PROGRAMMING IN MATHEMATICS

This course will be an introduction to computers and calculators for students of mathematics. Topics will be selected from: uses of the internet for the study of mathematics, graphing calculators, computer software, and programming for solving mathematical problems. **Prerequisite:** MATH 1834. F

MATH 3553 NUMERICAL ANALYSIS

Derivation, evaluation, and application of numerical methods of applied mathematics. Computer programming solutions to roots of equations, difference and differential equations, numerical integration, and linear algebra problems. **Prerequisite:** MATH 2834 and any scientific programming language. D

MATH 3653 LINEAR ALGEBRA

An introductory course in vector spaces, matrices, determinants, characteristic roots, and applications. **Prerequisite:** MATH 2834 or departmental approval. S, SUO

MATH 3673 ELEMENTARY NUMBER THEORY

A study including primes and composites, number theoretic functions, diophantine equations, congruence classes, and mathematical induction. **Prerequisite:** MATH 2834 or departmental approval. SE

MATH 3713 COLLEGE GEOMETRY

An axiomatic development of the essentials of Euclidean geometry and an introduction to non-Euclidean geometry. Content includes the foundations of Euclidean geometry (points, lines, angles, triangles, quadrilaterals, circles), parallelism in Euclidean geometry, transformations and isometries, and parallelism in non-Euclidean geometry (with the focus on hyperbolic geometry). **Prerequisite:** MATH 2834 or departmental approval. F

MATH 4011-3 SEMINAR IN MATHEMATICS

Group study of specified topic in Mathematics for undergraduate students. Credit one to four semester hours.

MATH 4013 SEMINAR IN MATHEMATICS

The following courses are generally offered under this course number:

Analytic Geometry

Emphasizes the essential elements of analytic geometry with special attention to those topics that are needed in a college level calculus sequence. Content includes polynomial, rational, and transcendental functions. Polar and parametric equations, space coordinates and surfaces, lines and planes in space, applications to business, social and physical sciences, and curve fitting. **Prerequisite:** MATH 2834. SUE

Linear Algebra for Secondary Teachers

An introductory course on matrix algebra with applications to solutions of systems of linear equations, linear programming, vector spaces, determinants, linear transformations and applications. **Prerequisite:** MATH 2834. SUO

Modern Algebra for Secondary Teachers

Fundamental concepts of sets, mappings, binary operations, mathematical induction, divisibility and congruence mod n. Basic algebraic structures: groups, subgroups, cyclic groups, normal subgroups, homomorphism, and isomorphism. Introduction to rings, integral domains, and fields. Supportive problem sets and applications of special interest to teachers. **Prerequisite:** MATH 3834. SUE

Survey of Geometry

Euclid's Postulates with emphasis on Euclid's parallel postulate. Historical development of non-Euclidean geometry, with emphasis

on the work of Saccheri, Gauss, and Lobachevsky. Circular inversion and orthogonal circles. The Beltrami-Poincare' half-plane and Poincare' disk models of hyperbolic geometry. The spherical model of elliptic geometry. **Prerequisite:** MATH 1834. SUO

MATH 4133 INTRO TO MATHEMATICAL LOGIC

A basic course in mathematical thought, simple and compound sentences, truth tables, deductive logic, mathematical systems, quantification, application of logic to puzzles and games. **Prerequisite:** MATH 3834. D

MATH 4153 HISTORY OF MATHEMATICS

A survey course on the historical development of mathematics, including a look at famous problems and their development over time. FE

MATH 4213 DIFFERENTIAL EQUATIONS I

Solutions of ordinary differential equations with applications. **Prerequisite:** MATH 3834 or departmental approval. S

MATH 4223 DIFFERENTIAL EQUATIONS II

Continuation of MATH 4213. Transforms, existence of solutions, higher degree equations, series, orthogonal sets. D

MATH 4233 VECTOR ANALYSIS

A comprehensive course in theory and applications of vector analysis with an introduction to vector spaces. **Prerequisite:** MATH 3834. D

MATH 4653 MODERN ALGEBRA

An introduction to group, ring, and field theory. Emphasis on real and complex number fields. Supportive problem sets and applications. **Prerequisite:** MATH 3834 or departmental approval. F,

MATH 4753 INTRODUCTION TO POINT SET TOPOLOGY

Elements of set theory, the real number system, mappings, metric spaces, and general topological spaces. **Prerequisites:** MATH 3834 and consent of instructor. D

MATH 4853 ADVANCED CALCULUS

A course designed to strengthen and extend the theory beyond the usual beginning calculus sequence. **Prerequisite:** MATH 3834. S

MATH 4873 COMPLEX VARIABLES

Complex numbers and their algebra. Analytic functions. Cauchy-Reimann conditions, differential calculus of analytic functions. **Prerequisite:** MATH 3834. FO

MATH 5001-4 INDIVIDUAL STUDY IN MATHEMATICS (TOPIC)

Independent study of specified topic in mathematics for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. D

MATH 5011-4 SEMINAR IN MATH

Group study of specific topic in mathematics for graduate students. Credit 1 to 4 semester hours. D

MATH 5612 LINEAR ALGEBRA FOR SECONDARY SCHOOLS

Understanding of the techniques of matrix algebra in the solutions of systems of linear equations and elementary transformations. **Prerequisite:** Admission to the Graduate Program and MATH 2834. SUO

MATH 5632 ABSTRACT ALGEBRA FOR SECONDARY SCHOOLS

Understanding of the algebraic concepts of homomorphism, isomorphism, decomposition and operators. **Prerequisites:** MATH 3834 and admission to the Graduate Program. SUE

MATH 5712 CURRENT TRENDS IN SECONDARY SCHOOL GEOMETRY

Modern teaching techniques of secondary school geometry. **Prerequisite:** MATH 2834 and Admission to the Graduate Program. D

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MATH 5753 INTRODUCTION TO METRIC AND NON-METRIC GEOMETRY

Undefined terms, definitions, postulates, and theorems of a logical system, and Euclidean geometry. Introduction to coordinate and vector geometries. **Prerequisite:** Admission to the graduate program. **D**

MATH 5812 REAL NUMBERS

The development of the real numbers. Peano's Postulates, natural numbers, relations, integers, rational numbers, real numbers, and extensions of the real number field. **Prerequisites:** MATH 2834 and admission to the Graduate Program. **SU**

DEPARTMENT OF MUSIC

MUSIC 4021 WOODWIND ENSEMBLE

Performance of chamber music for woodwind instruments with emphasis on the woodwind choir. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4031 BRASS ENSEMBLE

Performance of chamber music for brass instruments with emphasis on the brass choir. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4041 PERCUSSION ENSEMBLE

Performance of music written for percussion ensemble with emphasis on "total" percussion. Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4051 ORCHESTRA Two rehearsals each week. Enrollment by permission of the instructor. **F, S**

MUSIC 4061 SMALL INSTRUMENTAL ENSEMBLES

Performance of chamber music for small instrumental ensembles. Two rehearsals each week. Enrollment by permission of the instructor. **D**

MUSIC 4071 JAZZ ENSEMBLE

Performance of the literature of jazz. Two or three rehearsals a week, depending on ensemble assignment. Enrollment by audition and permission of instructor. **F, S, SU**

MUSIC 4081 BAND

The performance of band literature in an ensemble situation. **F, S, SU**

MUSIC 4112 ORFF AND KODALY TECHNIQUES IN ELEMENTARY

A survey of method and materials developed by Carl Orff, Zoltan Kodaly, and their interpreters for the elementary general music classroom. Emphasis is on rhythmic activities and music literacy. **D**

MUSIC 4122 BASIC ORFF I

Beginning, detailed study of the music education system developed by Carl Orff. **D**

MUSIC 4132 BASIC ORFF II

Continuation of MUSIC 4122. **D**

MUSIC 4141 CHORUS

Choral ensemble performance. Students are placed in the five choirs by auditions held during the first scheduled class meetings. **F, S, SU**

MUSIC 4151 ORFF PRACTICUM

Supervised application in an elementary classroom of the general music procedures studied in MUSIC 4122 and MUSIC 4132. **D**

MUSIC 4182 RESEARCH AND STATISTICS

Experimental research techniques and statistics. **D**

MUSIC 4202 COMPOSITION

Practical experience in musical composition in various forms and styles. **Prerequisite:** MUSIC 3303. **D**

MUSIC 4213 MUSIC THERAPY III: MUSIC THERAPY IN SPECIAL EDUCATION

Diagnostic tests, theory, research, and clinical practice in music therapy for the mentally retarded. **D**

MUSIC 4222 INSTRUMENTAL PEDAGOGY

Physical and psychological problems associated with teaching wind, percussion, and stringed instruments. **FO**

MUSIC 4232 INSTRUMENTATION

A practical course in the technique of arranging for instrumental groups. **Prerequisite:** MUSIC 3303. **S**

MUSIC 4242-4 MUSIC THERAPY V-CLINICAL TRAINING

A six-month supervised internship. Credit: two to four semester hours; may be repeated for not more than a total of eight semester hours. **Prerequisite:** Completion of all undergraduate course work. **D**

MUSIC 4251 OPERA WORKSHOP

Practical experience in all phases of opera and musical theater production. **D**

MUSIC 4261 INTRO TO MUSIC TECHNOLOGY

Introduction to computer applications for MIDI sequencing, music notation, and digital audio.

MUSIC 4311 FIELD STUDIES IV

Supervised practicum experience in a rehabilitation setting. Two classes and a one-hour seminar each week. **D**

MUSIC 4352 PIANO PEDAGOGY

Teaching methods and materials for all levels of piano instruction, from grade school through high school. Discussion of private and class techniques. **FO**

MUSIC 4362 MUSIC HISTORY SURVEY

A survey course of all stylistic eras of Western music from antiquity to the present. **D**

MUSIC 4372 MUSIC THEORY PRACTICUM

A review of the undergraduate music theory curriculum and an introduction of analytical techniques. **D**

MUSIC 4402 BAND METHODS

A study of techniques for teaching public school instrumental music. Emphasis is on methods and materials, marching band shows, and various problems of administration. **FO**

MUSIC 4452 VOCAL METHODS

A study of music teaching techniques for junior and senior high school music programs, including large choral groups, small ensembles, the changing voice, vocal solos, the voice class, programming, and public relations. **FE**

MUSIC 4502 CHORAL LITERATURE

A review of music written for choral ensembles. Emphasis is on compositions appropriate for use in public school music programs. **SO**

MUSIC 4552 PIANO LITERATURE

A historical survey of the literature for the piano. **SE**

MUSIC 4602 INSTRUMENTAL LITERATURE

A review of music written for instrumental ensembles. Emphasis is on instructional material suitable for beginning, intermediate, and advanced students in the public schools. The class will review music for both private and group instruction. **SE**

MUSIC 4732 CHURCH MUSIC

A study of music as practiced by the various religious organizations in the U.S. which commonly employ professional musicians. Emphasis is on music literature and procedures used in formal worship. **D**

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MUSIC 4900 RECITAL ATTENDANCE

A non-credit course required each semester for music majors and minors. The course provides listening and performance opportunities in formal and informal concert settings. **F, S**

MUSIC 4901 RECITAL ATTENDANCE

Provides the same experience as MUSIC 4900, but carries one hour credit. **F, S**

MUSIC 5001-4 INDIVIDUAL STUDY IN MUSIC (TOPIC)

Independent study of a specific topic in music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5011-4 SEMINAR IN VOCAL MUSIC (TOPIC)

Group study of a specified topic in vocal music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5011-4 SEMINAR IN INSTRUMENTAL MUSIC (TOPIC)

Group study of a specified topic in instrumental music for graduate students. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program. D**

MUSIC 5100 FINAL COMPREHENSIVE EXAMINATION

The final comprehensive examination for graduate students in music. Enrollment by permission of the chair. **D**

MUSIC 5102 FORMS AND ANALYSIS

A course which provides the basic tools for the analysis of music from any style period. Emphasis of study is upon forms developed by common practice in western music from 1700 to the present. **Prerequisite: MUSIC 1314. D**

MUSIC 5112 INTRODUCTION TO MUSIC RESEARCH

An introduction to the techniques of research and writing in the various specialties of music and music education. **SE**

MUSIC 5122 MASTER'S THESIS

An elective research document for students in the Master of Music program. Enrollment by permission of the Department of Music Graduate Coordinator.

MUSIC 5172 MUSIC OF THE BAROQUE

A study of musical styles of the seventeenth and early eighteenth century.

MUSIC 5252 INSTRUMENTAL PROBLEMS

An advanced study of teaching techniques for the various instruments of the band and orchestra. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5302 MUSIC PROGRAM ADMINISTRATION

The study of administrative procedures of the public school, university, or professional music directors. **Prerequisite: Admission to the Graduate Program. SO**

MUSIC 5352 MARCHING BAND TECHNIQUES

Study of techniques and styles for marching bands, including pageantry, precision drill, dance steps and parade. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5402 SEMINAR IN ADVANCED INDIVIDUAL INSTRUMENTAL TECHNIQUES

The advanced study of techniques for playing and teaching orchestral instruments. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5452 ARRANGING FOR MARCHING BAND

An advanced study of techniques of arranging for the marching band. **Prerequisites: MUSIC 3303 and MUSIC 4232 or equivalent, and admission to the Graduate Program. D**

MUSIC 5482 ADVANCED INSTRUMENTAL LITERATURE

An advanced study of music literature written for instrumental ensembles. The review will include music for solo winds and full band. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5512 ADVANCED VOCAL METHODS

An advanced and detailed study of the various approaches to teaching solo and ensemble singing, with review of music literature suitable for secondary level students in the public schools. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5542 ADVANCED CHORAL LITERATURE AND SCORE STUDIES

A study of criteria for the evaluation and selection of choral music including the review of a variety of choral music. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5572 CHORAL ARRANGING

A study of the problems and techniques of voice leading and sonority in arranging music for the various choral music ensembles. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5702 MUSIC OF THE CLASSIC ERA

Western musical style and literature from 1720 to 1820. **D**

MUSIC 5752 MUSIC OF THE ROMANTIC ERA

A survey of the development of western musical forms and styles from 1820 to 1920. **D**

MUSIC 5762 ADVANCED CONDUCTING

The study and analysis of problems and procedures connected with conducting ensembles of all kinds. Emphasis is on problems of technique and communication. **Prerequisite: Admission to the Graduate Program. SE**

MUSIC 5782 LANGUAGE DICTION

Detailed study of the pronunciation of Latin, Italian, French, and German as they apply in both speech and singing. **Prerequisite: Admission to the Graduate Program. D**

MUSIC 5802 MUSIC OF THE TWENTIETH CENTURY

Musical styles and literature from 1880 to the present. **D**

MUSIC 5882 FOUNDATIONS OF MUSIC EDUCATION

A survey of the various specialties within music education, and a detailed study of the various philosophies and rationales which support music programs in public schools and universities. **Prerequisite: Admission to the Graduate Program. SO**

MUSIC 5971 GRADUATE RECITAL

A public recital elective for students in the Master of Music in Music Education degree. Enrollment by permission of applied music teacher. **F, S, SU**

MUSIC 5972 GRADUATE RECITAL

A public recital required of students in the Master of Music in Performance degree. Enrollment by permission of Graduate Committee, after completing a successful recital hearing. **F, S, SU**

MUSIC INDIVIDUAL MUSIC LESSONS (APPLIED MUSIC)

Individual lessons in piano, voice, organ, guitar, or any of the orchestral instruments. Students enrolled in one hour's credit will receive twenty-five minutes of instruction each week. Students enrolled in two hour's credit will receive fifty minutes of instruction each week. All enrollments by signature from the chair of the music department. Enrollment in individual lessons is by permission of the department. Non-majors may apply for individual lessons, but music majors, minors, and endorsement students in good standing hold a higher priority for teacher assignment. **F, S, SU**

DEPARTMENT OF SOCIAL SCIENCES

Criminal Justice

CRMJS 3163 SOCIOLOGY OF DEVIANT AND CRIMINAL BEHAVIOR

A general study of causes, effects and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. **Prerequisite: CRMJS 1113. F**

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CRMJS 3243 COMPARATIVE CRIMINAL JUSTICE SYSTEMS

A trans-national study of criminal justice systems focusing on law enforcement, adjudication, and corrections for comparison with U.S. system. **Prerequisite:** CRMJS 1113. **S**

CRMJS 3353 THE CRIMINAL MIND

This course will explore the mind of those who commit criminal acts and attempt to understand their motives, backgrounds, and psyches. Additional topics discussed in the course will include the mind of the murderer, the stalker, the terrorist, the sex offender, the rapist, and the cyber stalker. **Prerequisite:** CRMJS 1113. **D**

CRMJS 3803 PRIVATIZATION OF CRIMINAL JUSTICE

A study of the historical and contemporary involvement of citizens and business and industry (i.e., non-government) in law enforcement, investigation, security, surveillance, detention, corrections, and treatment. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4013 SEMINAR IN CRIMINAL JUSTICE

Intensive study on selected topic in Criminal Justice. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4103 JUVENILE JUSTICE

The study of delinquency and agencies of delinquency control; juvenile courts, probation, institutions and community organizations. **Prerequisite:** CRMJS 1113. **S**

CRMJS 4143 CRITICAL ISSUES IN CRIMINAL JUSTICE

Analysis of selected critical issues facing the criminal justice system. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4153 U.S. CORRECTIONS

A study of corrective social responses to adult criminal behavior; focuses largely on the process of institutionalization, along with alternative treatment strategies. **Prerequisite:** CRMJS 1113. **F**

CRMJS 4333 VICTIMOLOGY

A sociological analysis of victimization, the social response to victimization, and the victim movement. **Prerequisite:** CRMJS 1113. **D**

CRMJS 4903 DIRECTED READINGS IN CRIMINAL JUSTICE

Scope of project determined by instructor. May be repeated for a total of six hours. **Prerequisite:** CRMJS 1113. **Permission required.**

CRMJS 5903 DIRECTED READINGS IN CRIMINAL JUSTICE

Scope of project determined by instructor. May be repeated for a total of 6 hours. **Permission required.** **D**

Economics

ECONO 3863 MONEY AND BANKING

The study of the role of money, financial markets, and monetary policy in the overall economy; monetary theory. **Prerequisites:** ECONO 2263. **D**

ECONO 4003 INDEPENDENT STUDY IN ECONOMICS (TOPIC)

Independent study of selected topics under the supervision of an economics faculty member. **Permission required.** **D**

ECONO 4013 SEMINAR IN ECONOMICS (TOPIC)

Group study of specified topics in economics. **Permission required.** **D**

ECONO 4563 MANAGERIAL ECONOMICS

An application of economic analysis and theory to the decision-making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure; pricing. **Prerequisites:** ECONO 2363. **D**

ECONO 4963 INTERNATIONAL ECONOMICS

Fundamentals of trade theory and international finance. Survey of important current economic problems of an international nature. **Prerequisites:** ECONO 2263. **D**

ECONO 5653 ADVANCED MANAGERIAL ECONOMICS

An advanced application of economic analysis and theory to the decision-making process which faces the manager. Topics covered include consumer and business firm behavior; demand theory; production; cost analysis; market structure pricing. **S**

ECONO 5763 ADVANCED BUSINESS STATISTICS

Analysis, summarization, and interpretation of data for use in decision-making. Includes the study of analysis of variance, linear regression and correlation, multiple regression and correlation analysis, nonparametric methods, time series, chi-square applications, and index numbers. Emphasis will be on problem solving and analysis using actual business data. **F**

Geography

GEOG 4083 ENVIRONMENTAL STUDIES

This course examines impact of humans on the environment. Specifically it attempts to compare the relative stress humans impose upon the environment within various socio-economic structures. **D**

GEOG 4103 WORLD GEOGRAPHY BY REGIONS

Principles of regional geography and the classification and utilization of major world regions. Physiographic, climatic, economic, and cultural aspects of various regions are studied. **D**

GEOG 4113 GEOGRAPHY OF U.S. AND CANADA

Study of physical and economic regions of the United States and Canada. Emphasis placed on physical background, cultural setting and economic foundations of each region. **D**

History

HIST 3033 HISTORIANS OF THE MIDDLE AGES

Detailed readings of the chronicles and histories written by medieval Europe's most prominent historians. Issues pertaining to content, themes, styles, and biases will be examined. **D**

HIST 3043 EARLY MODERN EUROPE

History of European states from the late medieval period to the outbreak of the French Revolution. **D**

HIST 3063 MODERN IRELAND

A history of Ireland with an emphasis on the period since the 17th century. **D**

HIST 3073 NINETEENTH CENTURY EUROPE

Examines the "Great Transformation" of Europe from 1789 to 1914. **D**

HIST 3083 NATIONALISM AND ETHNICITY

An examination of the theories of national and ethnic community, and the violent application of such theories in 19th and 20th century Europe. **D**

HIST 3093 TWENTIETH CENTURY EUROPE: 1899-1989

Our own century in which the old order finally collapses, nationalists and capitalist societies compete in total wars and technological progress transforms western civilization. **D**

HIST 3103 MEDIEVAL ENGLAND

Intensive examination of English history from the Anglo-Saxon era through the reign of King John with an emphasis on the detailed study of chronicles, laws, and other primary sources. **F**

HIST 3113 TUDOR ENGLAND

Study of the life and reign of Queen Elizabeth I. **D**

HIST 3173 HISTORY OF IDEAS

The course uses a seminar method to examine some of the influential texts and ideas of the modern age. Beginning with great humanist texts and working through writings of Marx, Freud, and others, students will use a Socratic method to examine primary sources. **D**

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HIST 3193 THE EUROPEAN UNION

This course adopts a lively, interactive approach to study of the European Union, its institutions, member states, historical and legal background, and current issues. Students participate in debates, presentations, and a "Model EU". **D**

HIST 3203 HISTORY OF GERMANY: 9 A.D. - 1989

The History of the German people and states from ancient tribal society, through the Holy Roman Empire, the Reformation of Martin Luther, to modern nationalism, Hitler's Reich, and the divided Germany of the Cold War. **F**

HIST 3303 HISTORY OF IMPERIAL RUSSIA

Social, political, economic, and cultural developments from Muscovy to Bolshevik Revolution of 1917; emphasizing principal Muscovite regimes, Russian expansion, revolutionary movements, and World War I. **D**

HIST 3403 MODERN FRANCE

Surveys developments of modern France from the collapse of the ancien regime through the French revolution, the Napoleonic empire, the rise of the bourgeoisie, the Third Republic, the First and Second World Wars, the Fifth Republic, and contemporary French society as part of the European economic community. **O**

HIST 3503 EARLY CHRISTIAN THOUGHT

A historical introduction to early Christian writings and the development of Christian doctrine during Christianity's first centuries. **Permission required. D**

HIST 4011-4 SEMINAR IN HISTORY

Intensive study on selected topic in history. Credit from one to four hours. May be repeated with change of subject for total of 12 hours. **D**

HIST 4023 COLONIAL AMERICA, 1492-1765

A study of the European Colonies north of Mexico from earliest European exploration to the victory of the British in the Wars for North American Empire. **D**

HIST 4033 REVOLUTIONARY AMERICA: 1765-1808

Study of the revolutionary process in the British colonies and the Revolutionary War, the creation of the 1st American Republic under the Articles of Confederation and a 2nd under the Constitution, the revolution 1800 and the stabilization of the republic in the presidency of Thomas Jefferson. **D**

HIST 4043 NEW NATION AND AGE OF JACKSON, 1808-1850

America from the Age of Good Feeling through the Age of Jackson including the War of 1812, the second Great Awakening, the rise of social reform movements, the rise and decline of the second party system and developing tensions between nationalism and sectionalism. **D**

HIST 4053 CIVIL WAR AND RECONSTRUCTION: 1850-1877

Causes of Civil War, forming of Southern Confederacy, major events of war, political, economic, and social problems associated with restoration of the union. **D**

HIST 4063 GILDED AGE AND PROGRESSIVE ERA: 1877-1850

Study of transformation of America from rural society "isolated" from world affairs into highly industrialized power. Social change will be stressed. **D**

HIST 4073 20TH CENTURY AMERICA: 1920 TO 1960

The 1920's, Depression and New Deal, WWII, Cold War, Korea, and McCarthyism. **D**

HIST 4083 CONTEMPORARY AMERICA: 1960-PRESENT

Study of the Kennedy and Johnson years, Civil Rights, Vietnam, Counterculture, Nixon Watergate, "me generation", Ronald Reagan's America, and the contemporary scene. **D**

HIST 4093 HISTORICAL RESEARCH AND WRITING

The process of historical research, including methods of locating materials, criticizing sources, analyzing and organizing notes, and writing results and presenting findings. **F**

HIST 3603 20TH CENTURY WORLD HISTORY

A history of the 20th century and the early years of the new millennium. The emphasis will be on traditionally non-western nations and regions such as China, Japan, India, Russia, and Africa. The role of the United States and Europe in this period will also be examined. **D**

HIST 4103 AMERICAN INDIANS

Emphasis is on Native American cultures and societies in the United States and federal Indian policy from 1830 to the present. **D**

HIST 4123 AMERICA IN THE 1960's

The study of the "liberal decade" including the Kennedy's, Johnson, King, and Nixon, Civil Rights, Vietnam, 1968, and the Counter culture.

HIST 4133 WOMEN IN AMERICAN HISTORY

The changing role of women in American society from colonial times to the present. Emphasis on cultural values and attitudes, the suffrage movement, feminism and antifeminism in the 20th century as well as the contemporary economic, legal, political, social, and intellectual issues facing women today. **D**

HIST 4203 OLD SOUTH

Study of antebellum South. Emphasis on role which South and Southerners played in national affairs and development of southern societal characteristics.

HIST 4213 NEW SOUTH

Survey of postbellum South with emphasis on economic, political, and social forces which have changed culture of this region.

HIST 4313 AMERICAN WEST

Study of the Trans-Mississippi West with emphasis on the impact of the frontier on American life, environmental issues, and the 20th Century West. **D**

HIST 4353 HISTORY OF OKLAHOMA

Oklahoma history from its beginning to present, including Indian background, formation into territories, achievement of statehood, and general cultural, economic, and political development. **S, SU**

HIST 4901-4 DIRECTED READINGS IN HISTORY (TOPIC)

Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

HIST 5011-4 SEMINAR IN HISTORY (TOPIC)

Intensive study of selected topic in history. Credit one to four hours. **D**

HIST 5093 HISTORIOGRAPHY

An introduction to readings, problems, and methods in the study of historical topics.

HIST 5901-4 DIRECTED READINGS IN HISTORY (TOPIC)

Scope of project determined by instructor. Credit from one to four hours. May be repeated for a total of six hours. **Permission required. D**

Political Science

POLSC 3003 FEDERAL CONSTITUTION

Decisions through which the Supreme Court has developed judicial review and defined the scope of federal power.

Prerequisite: POLSC 1103. F

POLSC 3033 POLITICAL PARTIES

Survey of the origin and development of the parties of the United States including an analysis of contemporary policies and issues. **Prerequisite: POLSC 1103. S**

POLSC 3113 POLITICAL THEORY

Examines classic and current views on the nature of authority, liberty, and justice. **Prerequisite: POLSC 1103. F**

POLSC 3163 PRINCIPLES OF INTERNATIONAL RELATIONS

Basic survey of international relations, including a consideration of the basis of national power and the fundamentals of international politics, law, and organization. **Prerequisite: POLSC 1103. D**

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POLSC 3323 LEGISLATIVE-EXECUTIVE RELATIONS

The study of the organization and functioning of Congress and Executive Branch. **Prerequisite:** POLSC 1103. **F**

POLSC 3343 WOMEN & POLITICS

A study of women's pursuit of equality in the US and the international community; their successes as well as the obstacles they have confronted; and the political organizations created to achieve their goals. **Prerequisite:** POLSC 1103. **D**

POLSC 3353 MODEL UNITED NATIONS

Inform students about the United Nations system; consideration of the political, social, economic, and environmental issues, as well as disarmament and other issues within the international community. Participation in the Midwest Model United Nations is required. **Prerequisite:** POLSC 1103. **S**

POLSC 3363 PUBLIC ADMINISTRATION THEORY & PRACTICE

Introduction to principles and problems of public administration, organization, planning, supervision, budgeting, and administration responsibility. **Prerequisite:** POLSC 1103. **D**

POLSC 4013 SEMINAR IN POLITICAL SCIENCE (TOPIC)

Intensive study on selected topic in Political Science. May be repeated with change of subject for a total of 12 hours. **Prerequisite:** POLSC 1103. **D**

POLSC 4233 URBAN POLITICS & ELECTION SYSTEMS

A study of the governance systems of cities and towns within the governing state context; and the processes of municipal and state policy implementation. **Prerequisite:** POLSC 1103. **D**

POLSC 4253 INTERNATIONAL LAW

An analysis of international organizations, international courts, issues or sovereignty, diplomatic relations, treaties, human rights, economic policies, and when the use of force is justified. The course will review cases from the United States Supreme Court, the International Court of Justice and other courts throughout the world. **Prerequisite:** POLSC 1103. **D**

POLSC 4303 INTERNATIONAL ORGANIZATIONS

Development and operation of international organizations from League of Nations to present, with emphasis on UN but including regional and nongovernmental organizations. **Prerequisite:** POLSC 1103. **D**

POLSC 4403 PUBLIC POLICY FORMATION

A survey of the development and administration of public policy. **Prerequisite:** POLSC 1103. **D**

POLSC 4613 CIVIL RIGHTS & LIBERTIES

Limitations placed on federal and state governments by the Constitution. Emphasizes First Amendment freedoms and the Fourteenth Amendment. **Prerequisite:** POLSC 1103. **S**

POLSC 4903 DIRECTED READINGS IN POLITICAL SCIENCE (TOPIC)

Scope of project determined by instructor. May be repeated for a total of six hours. **Prerequisite:** POLSC 1103. **Permission required.** **D**

POLSC 5903 DIRECTED READINGS IN POLITICAL SCIENCE (TOPIC)

Scope of project determined by instructor. May be repeated for a total of six hours. **Permission required.** **D**

Sociology

SOCIO 3043 RACIAL AND CULTURAL MINORITIES

An interdisciplinary examination of the causes and consequences of prejudice and discrimination. **Prerequisite:** SOCIO 1003. **S**

SOCIO 3163 SOCIOLOGY OF DEVIANT & CRIMINAL BEHAVIOR

A general study of the causes, effects and the nature of deviant behavior; special attention is given to criminal behavior as a type of deviance. **Prerequisite:** SOCIO 1003. **F**

SOCIO 4013 SEMINAR IN SOCIOLOGY

Intensive study on selected topic in Sociology. **Prerequisite:** SOCIO 1003. **D**

SOCIO 4033 ADVANCED ANALYSIS OF SOCIAL PROBLEMS

Contemporary U.S.A. and international social problems are examined through use of contemporary sociological theories. (The course is designed to give an in-depth understanding of a structural approach to a changing social milieu.) **Prerequisite:** SOCIO 1003. **D**

SOCIO 4313 SOCIOLOGY OF AGING

An analysis of theoretical perspectives on aging; the social and social psychological changes accompanying aging; examination of age considerations in American society. **D**

SOCIO 4323 GERONTOLOGY

An examination of the developmental aspects of aging plus an investigation of the programs and services available for the aged. **D**

Social Sciences

SOCSC 3853 STATISTICS FOR THE SOCIAL SCIENCES

Introduction to statistical methods in the social sciences. Emphasis on analyzing and presenting data utilized by social scientists; survey of descriptive techniques. **F**

SOCSC 3863 FUNDAMENTALS OF RESEARCH

Use of scientific method in social science research. **Prerequisite:** SOCSC 3853. **F**

SOCSC 4133 TEACHERS COURSE IN THE SOCIAL SCIENCES

Resources, methods and problems in teaching the social sciences in secondary schools. Required for certification in this field. **F**

COLLEGE OF PROFESSIONAL AND GRADUATE STUDIES

(F = Classes offered in the Fall, S = Classes offered in the Spring, SU = Classes offered in the Summer,
I = Intersession classes, D = Classes offered upon Demand)

SCHOOL OF ALLIED HEALTH SCIENCES

The Allied Health curricula are structured to provide competence in certain allied health sciences with majors in Athletic Training, Health Information Management, Health Care Administration, Health Science, and Medical Technology. Bachelor of Science degrees may be obtained in each of the majors listed above. (IAV = Interactive Video available at select sites.)

Allied Health Sciences

ALHLT 3043 HEALTH STATISTICS

This is a course in health related statistics and statistical application in the medical sciences. Statistical principles will be taught along with data collection and display techniques as well as utilization of formulas used by health care facilities. Two hours of lecture per week with 2 hours of lab for application techniques. **Corequisite:** ALHLT 3043L. F,S

ALHLT 3053 ADVANCED MEDICAL TERMINOLOGY

A continuation of ALHLT 2442 Medical Terminology focusing on a more in-depth study of medical vocabulary. The course contains a broad study of medical science such as a medical laboratory, radiology and other diagnostic modalities, as well as an overview of pharmacology, including drugs used to treat conditions under study. **Prerequisite:** ALHLT 2442.

ALHLT 3093 DIETETICS IN HEALTH AND ILLNESS

A study in advanced nutritional concepts including individual nutrients and their association with disease states. Three hours of lecture per week. **Prerequisite:** BIOL 1004, BIOL 1054, & CHEM 1004, CHEM 1203.

ALHLT 3193 HEALTH CARE DELIVERY

A study of the health care delivery system in the United States, including health care facilities, methods of governance, regulatory agencies, government legislation affecting health care, types of service providers, and other information specific to health care regulation. Three hours of lecture per week. F, S (IAV), SU

ALHLT 3933 MANAGEMENT OF HEALTH CARE INSTITUTIONS

A study of different management applications and managerial principles specific to health care institutions including labor relations and financial management. Three hours of lecture per week. F, S (IAV)

ALHLT 3963 HEALTH CARE ADMINISTRATION

Considers topics of administration including DRGs, prospective payment system, medical staff, accreditation, licensure, and certification of health care facilities. Three hours of lecture per week. **Prerequisites:** (ALHLT 3933 or ALHLT 4043) and ALHLT 3193. S

ALHLT 4043 MEDICOLEGAL CONCEPTS

A study of the principles of law applied to the health field with particular reference to health information. Three hours of lecture per week. F, S

ALHLT 4802 HISTORY OF MEDICINE

An introduction to medicine from its beginning to the present day. This course covers the great milestones of Medicine, the emergence of the medical profession, the reform and expansion of medical schools – to the current era of managed care. Offered each spring or as needed.

ALHLT 4872 HOMINOLOGY

An interdisciplinary study of the origins of mankind with discussions of evolution and creation. The archaeological record of early man will be presented along with early man's accomplishments and the mysteries that remain. F

ALHLT 5001-4 INDEPENDENT STUDY IN ALLIED HEALTH

These courses provide the opportunity for the student to become involved in research activities. The student is given the opportunity to participate in an area of personal interest or an area selected by the faculty. Sound research design and data collection and interpretation are emphasized. The overall objective of the activity is to make it a learning activity which benefits the student.

Athletic Training Education Program

ATEP 4233 Athletic Training General Medicine and Pharmacology

This course will cover the foundational knowledge and skills for comprehensive evaluation and the pharmacologic principles applied related to athletic injury and illness. In this class the student will recognize and manage medical conditions affecting athletic participants. This includes ascertaining medical history, the use of evaluative tools, knowledge of various conditions and diseases, and clinical evaluation techniques for neurological and musculoskeletal disorders. The student will also be taught the understanding of the basic principles of drug action, administering and dispensing drugs, using drug references, medication adverse effects, therapy considerations, and classification of drugs. Biological effects, indications, adverse effects, and the drugs' impact on exercise or how exercise can impact the distribution and availability of drugs are discussed. An overview of performance enhancing drugs and drug testing will be introduced to the athletic training student S.

ATEP 3743 ATHLETIC TRAINING REHABILITATION

Essentials, principles, and concepts of rehabilitation/reconditioning. Specific exercise, examination, techniques, and record keeping pertaining to the process of rehabilitation are included in the course. With concurrent enrollment in Practicum in Therapeutic Intervention, the student will gain practical experiences pertaining to concepts presented in the class. Course includes laboratory experiences. S

ATEP 4333 ATHLETIC TRAINING EVALUATION OF ORTHOPEDIC INJURY: Upper Extremity

Musculoskeletal and orthopedic evaluation of the extremities. Understanding of factors that predispose abnormal motion. Applications of principles and sciences to movement dysfunction and evaluation of this dysfunction are a primary emphasis. The understanding of kinesiology and particularly pathokinesiology are of primary importance to athletic training students. Course includes laboratory experiences. F

ATEP 4344 ATHLETIC TRAINING EVALUATION OF ORTHOPEDIC INJURY

Musculoskeletal and orthopedic evaluation of the extremities. Understanding of factors that predispose abnormal motion. Applications of principles and sciences to movement dysfunction and evaluation of this dysfunction are a primary emphasis. The understanding of kinesiology and particularly pathokinesiology are of primary importance to athletic training students. Course includes laboratory experiences. F

ATEP 4353 ATHLETIC TRAINING EVALUATION OF ORTHOPEDIC INJURY: Lower Extremity

Musculoskeletal and orthopedic evaluation of the extremities. Understanding of factors that predispose abnormal motion. Applications of principles and sciences to movement dysfunction and evaluation of this dysfunction are a primary emphasis. The understanding of kinesiology and particularly pathokinesiology are of primary importance to athletic training students. Course includes laboratory experiences. **S**

ATEP 4433 ATHLETIC TRAINING MODALITIES

Provides the theoretical background for clinical application of therapeutic modalities. Imparts the knowledge necessary to exhibit reasoning skills regarding the use of modalities in the treatment protocol of a active individuals. Course includes laboratory experiences. **S**

ATEP 4722 ADMINISTRATIVE ISSUES IN ATHLETIC TRAINING

Fosters acquisition of administrative and organizational techniques necessary to direct an athletic training facility. Basic concepts include financial management, legal liability, insurance processing, facility design, personnel management, and professional involvement. **F**

**Health Information Management Program
Professional Health Information Management Courses**

MEDRC 3023 HEALTH INFORMATION SYSTEMS

An introduction to the impact and applications of computers in health information, including systems analysis and design, electronic health record systems and the computerized medical record. **Corequisite: MEDRC 3023L. F**

MEDRC 3033 INTRO TO HEALTH INFORMATION

An introduction to the field of health information. Centers around basic functions of a Medical Record/Health Information Department. Two hours of lecture and three hours of lab per week. **Corequisite: MEDRC 3033L. F**

MEDRC 3333 CODING I

This course provides information on health related coding systems which are utilized for data retrieval and reimbursement by type of service. ICD-9-CM coding principles are covered. Data retrieval relating to manual or automated systems are discussed. The course includes two hours of lecture and three hours of lab per week. **Prerequisite: ALHLT 4064 and MEDRC 3352. Corequisite: MEDRC 3333L. F**

MEDRC 3343 CODING II

This course provides information on CPT coding principles and the outpatient prospective payment system as well as effective management of coding services for both inpatient and outpatient systems. Available for HIM students or by permission of instructor. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. **Prerequisite: MEDRC3333. Corequisite MEDRC 3343L. S**

MEDRC 3352 INTRODUCTION TO REIMBURSEMENT AND CLASSIFICATION SYSTEMS

Introduction to health care reimbursement methodologies currently in use within the United States including an overview of the Medicare prospective payment system/DRG's for hospital inpatients and of reimbursement systems including RBVS, APCs and other pertinent systems for ambulatory care. The course also includes an introduction to classification systems utilized in collecting, maintaining, and retrieving specified clinical data in a variety of health care settings with an emphasis on ICD-9-CM coding data and the relationship of coding to reimbursement; specialized and emerging classifications and nomenclatures. **S**

MEDRC 4023 HEALTH INFORMATION APPLICATION

Presents information on various regulatory, ancillary, and specialty areas within the field of Health Information Management. Includes a study of utilization review, accrediting agencies, cancer registry, JCAHO and Medicare requirements, medical staff services, mental health records, ambulatory care, long-term care and other types of alternate care sites. The course includes two hours of lecture and three hours of lab per week. **Corequisite: MEDRC 4023L. F**

MEDRC 4033 HEALTH INFORMATION MANAGEMENT

This course provides information on managerial aspects of Health Information Management. The course includes four hours of lecture and six hours of lab per week for the first eight weeks. **Corequisite: MEDRC 4033L. S**

MEDRC 4112 QUALITY IMPROVEMENT

This course provides a look at quality/performance improvement activities as a routine function of each hospital department. Development of an overall quality/performance improvement program is discussed, referencing the requirements of the Joint Commission on Accreditation of Healthcare Organizations. Two hours of lecture per week. **F**

Microbiology

ALHLT 4074 PATHOPHYSIOLOGY

This course analyzes structure and function of the human body related to disease and injury. Four hours of lecture per week. **Prerequisite: ALHLT 2442. Previous course in Human Anatomy and Physiology recommended. F, S**

ALHLT 4093 EPIDEMIOLOGY

The scientific study of the factors that influence the occurrence, distribution, control, and prevention of disease. Emphasis is on infectious disease problems, but non-infectious diseases are considered. Three hours of lecture per week. **Prerequisite: ALHLT 4355. F, S, SU (IAV S only)**

ALHLT 4213 IMMUNOLOGY

The study of the body's immune system and its relationship to health and disease. Three hours of lecture per week. **Prerequisite: ALHLT 4355. F,S**

ALHLT 4313 MEDICAL PARASITOLOGY

This course provides an applied overview of viral, fungal, bacterial, and eukaryotic parasites infecting humans. Lab techniques include the collection, isolation, cultivation, and identification of parasites. Two hours of lecture and two hours of laboratory per week. **Prerequisite: ALHLT 4355. Corequisite: ALHLT 4313L. FE**

ALHLT 4343 APPLIED MICROBIOLOGY

Topics covered would include the medical applications of gene therapy and therapeutic agents, industrial microbiology and fermentation, agricultural applications, microbial ecology and food microbiology. **Prerequisites: ALHLT 4355L. F**

ALHLT 4355 MICROBIOLOGY

A basic study of microorganisms, involving classification and cultivation of bacteria, fungi, and viruses. Special emphasis is directed toward microbial morphology and physiology of disease causing microorganisms, antibiotics and their action, and immune mechanisms. Three hours of lecture and four hours of lab per week. **Corequisite: ALHLT 4355L. Prerequisites: (CHEM 1004 OR CHEM 1203) and BIOL 1004. F, S, SU**

ALHLT 4404 PATHOGENIC MICROBIOLOGY

A study of pathogenic microorganisms, molecular mechanisms of pathogenicity, disease pathology and medical diagnostic procedures. Two hours of lecture and four hours of lab per week. **Prerequisite: ALHLT 4355. SO**

ALHLT 4453 VIROLOGY

A study of bacterial and animal viruses, including virion structure, cultivation, molecular genetics and mechanisms of infection. Attention is given to viral diseases, their pathology, control and prevention. Three hours of lecture per week. **Prerequisite: ALHLT 4355. FE**

ALHLT 4503 MICROBIAL PHYSIOLOGY

The study of the physiological and biochemical activities of bacteria emphasizing structure, function, and control mechanisms. Emphasis will be placed on basic as well as new findings in structural and functional physiology of bacteria. Three hours lecture per week. **Prerequisite: ALHLT 4355. D**

ALHLT 4523 ENVIRONMENTAL MICROBIOLOGY

The study of the interrelationship between man, microorganisms and the environment. Areas of study will be air, water, soil, and special environments such as industrial and domestic wastes. The interaction of microbes with plants

and animals is considered. Three hours lecture and two hours of lab per week. **Corequisite:** ALHLT4523L. **Prerequisite:** ALHLT 4355. SE

SCHOOL OF BEHAVIORAL SCIENCES AND EDUCATION

DEPARTMENT OF EDUCATION Educational Foundations

VOCED 4133 CURRICULAR ISSUES IN VOCATIONAL EDUCATION

A study of various curriculum issues, problems, and areas relevant to vocational education.

EDUC 5001-4 INDEPENDENT STUDY IN EDUCATION (TOPIC)

Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite:** Admission to Graduate Program.

EDUC 5011-4 SEMINAR IN EDUCATION (TOPIC)

Directed intensive study on a selected problem or a special topic. Credit one to four semester hours. **Prerequisite:** Admission to Graduate Program.

EDUC 5113 INTRODUCTION TO RESEARCH

Provides students the skills necessary to become intelligent and critical consumers of research. Introduces students to principles and methods of both quantitative and qualitative contemporary educational research. **Prerequisite:** Admission to Graduate Program. F

Early Childhood

ECED 4423 PLAY METHODS AND MATERIALS IN PRESCHOOL AND KINDERGARTEN

A survey of the use of play as a learning and socializing process. Special emphasis will be given to topics such as theories, types, stages of play, and play materials and equipment in relationship to various play environments and therapies. **Prerequisite:** Admission to Teacher Education Program. F, SU

ECED 4463 THE EXPRESSIVE ARTS

Development of concepts and methods in art, music and literature appropriate for early childhood education. **Prerequisite:** Admission to Teacher Education Program. S, SU

ECED 4483 EXPLORING THE CHILD'S WORLD

Development of concepts and methods in math, science and social studies appropriate for early childhood education. **Prerequisite:** Admission to Teacher Education Program. F, SU

ECED 4533 GUIDANCE OF THE PRESCHOOL CHILD

An introduction to developmentally appropriate practice in the guidance of young children; emphasis on developmental needs, behavior of preschool children, methods and principles of guidance. Two hours laboratory participation per week. **Prerequisite:** Admission to Teacher Education Program. S, SU

ECED 4583 EARLY CHILDHOOD AND KINDERGARTEN EDUCATION

A survey of current practices, programs, and innovations in early childhood education. Emphasis is placed upon the young child's cognitive, social, emotional, and physical development. **Prerequisite:** Admission to Teacher Education Program and PSYCH 3413. F, SU

ECED 4613 PRACTICUM IN EARLY CHILDHOOD EDUCATION

Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation; one hour conference.) **Prerequisites:** Admission to Teacher Education Program and ECED 4533.

ECED 5163 PERCEPTUAL DEVELOPMENT IN INFANTS AND TODDLERS

Study of hereditary and environmental determinants of perceptual development of infants and toddlers and their effects on the learning process of children with and without disabilities. **Prerequisite:** Admission to Graduate Program.

ECED 5612 PRACTICUM IN EARLY CHILDHOOD EDUCATION

Observation experiences; planning and conducting the early childhood education program under instructor's supervision. (Four hours per week laboratory participation and one hour conference.) **Prerequisites:** Admission to Graduate Program and ECED 4533. SU

Elementary Education

ELEM 3453 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

A course considering the scope and nature of an exemplary program of instruction in the language arts. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

ELEM 3513 CONTENT, METHODS AND MATERIALS IN MATHEMATICS FOR ELEMENTARY TEACHERS

Study of the scope of mathematics in the elementary school with emphasis on developmental learning, methods and materials for teaching. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

ELEM 3522 CONTENT, METHODS AND MATERIALS IN SOCIAL STUDIES FOR ELEMENTARY TEACHERS

Emphasis is placed upon organization of a unified and correlated social studies program and the development of resource units. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

ELEM 4222 PHONICS AND PENMANSHIP

A study of the phonetic elements in the English language, in addition to instruction in cursive and manuscript writing. **Prerequisite:** Admission to Teacher Education Program. F, S, SU

ELEM 5513 TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL

Problems, trends, issues and research in elementary mathematics and their relationship in modern educational practices. **Prerequisites:** Admission to Graduate Program and ELEM 3513. D

ELEM 5693 TEACHING IN THE ELEMENTARY SCHOOL

Identification and analysis of the prevalent problems, including trends and issues encountered while teaching in the elementary school. Individual investigation of problems is performed by the students. F, S, SU

Reading

RDNG 3423 THE TEACHING OF READING I

Basic principles of reading instruction; techniques and materials for teaching reading; a study of readiness, word recognition skills, comprehension, critical reading, study skills, and vocabulary development. F, S, SU

RDNG 3432 THE TEACHING OF READING II

A continuation of RDNG 3423, with emphasis on word recognition, vocabulary, and comprehension. **Prerequisites:** Admission to Teacher Education Program and RDNG 3423. F, S, SU

RDNG 4443 DIAGNOSTIC PRACTICES IN TEACHING OF READING

Practice course with actual reading disability cases with whom the techniques of diagnosis and treatment of reading difficulties are used. **Prerequisites:** Admission to Teacher Education Program and RDNG 3423, RDNG 3432. F, S, SU

RDNG 5183 ANALYSIS OF READING SYSTEMS

Basal readers, language experience, individualized, augmented alphabet, phonic, linguistic, programmed and interdisciplinary approaches are examined, discussed, and reviewed. **Prerequisite:** Admission to Graduate Program.

RDNG 5413 FOUNDATIONS OF READING

Comprehensive study of the physical, sociocultural, and psychological foundations of reading and principles of language relationships and their creative understandings. **Prerequisite:** Admission to Graduate Program. **D**

RDNG 5423 DIAGNOSIS AND REMEDIATION OF READING I

A study of the nature and causes of reading difficulties. There is emphasis on administration, scoring, and interpretation of individualized reading tests. **Prerequisite:** Admission to Graduate Program and RDNG 5413.

RDNG 5433 DIAGNOSIS AND REMEDIATION OF READING II

A continuation of RDNG 5423, with emphasis on a reading diagnosis model and the administration, scoring, and interpretation of formal and informal testing. **Prerequisite:** Admission to Graduate Program and 5413.

RDNG 5443 PRACTICUM IN READING--ELEMENTARY

An introduction to the practices and responsibilities of a Reading Coach in the elementary classroom setting. Participation includes, but is not limited to, assessment of students, development of remediation plans, and co-teaching experiences. **Prerequisite:** Admission to Graduate Program and RDNG 5413 and RDNG 5423 or RDNG 5433.

RDNG 5453 PRACTICUM IN READING--SECONDARY

An introduction to the practices and responsibilities of a Reading Coach in the secondary content setting. Participation includes, but is not limited to, assessment of students, development of remediation plans, and co-teaching experiences. **Prerequisite:** Admission to Graduate Program and RDNG 5413 and RDNG 5423 or RDNG 5433.

RDNG 5463 ORGANIZATION AND SUPERVISION OF READING

Methods of organizing and supervising various types of reading programs are discussed. Some of the topics include the selection of personnel and pupils, identifying appropriate evaluation procedures, materials, and equipment. **Prerequisite:** Admission to Graduate Program and RDNG 5413.

EDUC 5953 READING CAPSTONE EXPERIENCE

Comprehensive study of and reflection on professional reading standards as demonstrated in the professional culminating portfolio. Candidate preparation and presentation of professional development opportunities. **Prerequisite:** Admission to Graduate Program and RDNG 5423, RDNG 5433, RDNG 5443, and RDNG 5453.

Special Education

SPCED 3132 EXCEPTIONAL CHILDREN

An overview of the development of special education, with a major focus on the intellectual, psycho-social behavior, educational need and programs for exceptional children and adolescents. **F, S, SU**

SPCED 5163 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH SEVERE, PROFOUND OR MULTIPLE DISABILITIES

A field based course which concentrates on the study, development, and practice of teaching techniques, instructional strategies and curriculum models for teaching students with severe or profound levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite:** Admission to Graduate Program. **F**

SPCED 5213 INTRODUCTION TO MILD & MODERATE

A comprehensive overview of characteristics, identification, and placement of students with mild and moderate disabilities. The course offers a study of causative-correlation factors and the effect they have on students throughout the various developmental stages. The course involves various educational trends and issues facing students, parents, and teachers that fall under this category. **F, S, SU**

SPCED 5223 DETECTING & CORRECTING SPECIAL PROBLEMS IN THE INCLUSIVE CLASSROOM

Strategies to prevent, alter, improve, and maintain social, emotional, and academic behaviors of the exceptional child in the inclusive classroom and community. **Prerequisite:** Admission to Graduate Program. **F, SU**

SPCED 5362 LEGAL & ETHICAL PRACTICES IN SPECIAL EDUCATION

Study of special education law as it affects teachers and professionals in the public school. Special emphasis is placed on policies and procedures, manifestation determinations, alternate placements, Individual Education Planning (IEP) and due process. This course is team taught by administration and special education faculty. **Prerequisite:** Admission to Graduate Program. **S**

SPCED 5433 ASSESSMENT OF EXCEPTIONAL INDIVIDUALS

Study of formal and informal assessment procedures appropriate for the evaluation of all ages with special learning needs. Students construct, administer, score and/or interpret norm-referenced tests, and informal assessment procedures. **Prerequisites:** Admission to Graduate Program. **F, SU**

SPCED 5623 INSTRUCTIONAL CONTENT AND PRACTICES FOR STUDENTS WITH MILD OR MODERATE DISABILITIES

A field based course concentrating on the study, development and practice of teaching techniques, instructional strategies and curriculum models for teaching students with mild or moderate levels of disability in a variety of educational settings throughout the lifespan. Note: This course includes a requirement of 16 hours of supervised field experience. **Prerequisite:** Admission to Graduate Program. **F**

SPCED 5811 PRACTICUM - SEVERE, PROFOUND OR MULTIPLE DISABILITIES

Graduate component of practicum requirement in special Education (severe, profound or multiple disabilities). Supervised experiences in designing and implementing various educational and leisure time experiences with children who have severe, profound or multiple disabilities. **Prerequisite:** Admission to Graduate Program. **SU**

SPCED 5821 PRACTICUM - MILD OR MODERATE DISABILITIES

Graduate component of practicum requirement in special education (mild-moderate disabilities). Supervised experiences in designing and implementing various educational, recreational, and leisure time experiences with children who have mild or moderate disabilities. **Prerequisite:** Admission to Graduate Program. **SU**

SPCED 5863 PLANNING AND MANAGING THE TEACHING ENVIRONMENT

Study of curriculum issues and instructional strategies for teaching special needs students in a variety of classroom settings. Emphasis is placed on writing the Individual Education Plan and its components (transition plans, Behavior plans and modification to instruction). **Prerequisite:** Admission to Graduate Program. **S**

Secondary Education

SECED 5833 TEACHING IN SECONDARY SCHOOL

Intensive study of teaching methods, current problems, and implications of newer practices in secondary education. **F, S, SU**

Educational Administration

EDAD 5233 FUNDAMENTALS OF CURRICULUM PLANNING

Explores critical elements of curriculum planning and implementation for educational administrators. Interrelationships among past, present, and future perspectives are emphasized through articles written by leading curriculum experts. Emphasis is on the processes of planning, developing, and implementing essential curriculum in the schools. **Prerequisite:** Admission to Graduate Program. **F, SU**

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EDAD 5313 SCHOOL PERSONNEL ADMINISTRATION

Fundamental concepts of the personnel function in the public school with emphasis on recruitment, selection, placement, professional development, and dismissal of teachers, certified and non-certified staff. **Prerequisite:** Admission to Graduate Program. SI, S, SU

EDAD 5413 INTERNSHIP IN EDUCATIONAL ADMINISTRATION (PRINCIPAL)

This course is designed to give practical, current experiences at the school site to the student who aspires to be a public school principal. Administrator activities such as finance, personnel, facilities, organization, curriculum and others guided by the sponsoring school site administrator and the university supervisor will be emphasized. **Prerequisite:** Completion of 15 hours in Educational Administration. F, S

EDAD 5513 EDUCATIONAL LEADERSHIP PSYCHOLOGY

Students investigate the role of psychology in educational leadership as leaders work with others to conduct business, carry out evaluative practices, manage personnel, and develop and implement curriculum. Key concepts addressed include building and maintaining productive relationships that ultimately lead to enhanced student performance. The course also provides methods and perspectives for building capacity in teaching ranks. Essential approaches, tools, skills, and procedures are investigated and practiced in school settings. **Prerequisite:** Admission to Graduate Program. SI, S

EDAD 5613 EDUCATIONAL ADMINISTRATION THEORY

The course provides students with the theoretical knowledge essential for the effective school administrator. Students explore theoretical and practical aspects of systems and organizations, school climate, leadership, communication, strategic planning, problem solving and decision making, change, dealing with conflict, and community involvement. **Prerequisite:** Admission to Graduate Program. F,

EDAD 5853 SCHOOL COMMUNITY RELATIONS

Students examine community structures and resources in social and political contexts in order to understand and apply the principles of school-community relations in local schools and school districts. Aspiring administrators develop understandings of the diverse constituencies served by schools and gain vital experience in using a variety of communication and technology tools to promote their school's linkage to the community. Ultimately, students have the opportunity to demonstrate they have the skills and dispositions to positively impact the learning environment. **Prerequisite:** Admission to Graduate Program. SI, S

EDAD 5813 SUPERVISION OF INSTRUCTION

Theory and concepts of modern school supervision are applied to situations in which administrators, supervisors, coordinators, and teachers are working in the public schools today. Students are given hand-on experience in supervising and evaluating classroom teachers. **Prerequisite:** Admission to Graduate Program. SU

EDAD 5933 THE PRINCIPALSHIP

Public school management systems are emphasized including patterns of development/organization, activities, theories and practices, staff development, and reporting procedures, e.g., accreditation, attendance child count, transportation and federal regulations. **Prerequisite:** Admission to Graduate Program. F, S, SU

EDAD 5973 PUBLIC SCHOOL FINANCE

A study of the theories and practices of public school finance including budgeting, cost analysis, supplies, and financial controls from the local, state, and national levels. **Prerequisite:** Admission to Graduate Program. FI, F, SUI

EDAD 5873 PUBLIC SCHOOL LAW

Critical study of the legal aspects of public school education with special reference to continuing and contemporary statutes of immediate concern to public school teachers, administrators, counselors, and staff. **Prerequisite:** Admission to Graduate Program. F, SU

Library Media

LIBED 5472 ADVANCED MEDIA AND TECHNOLOGY

Students will develop advanced skills in the utilization of media equipment and materials production using the computer. Microsoft Office and the Internet will be utilized as an instructional technique. Techniques will also be developed in teaching methods to utilize multimedia in an educational setting. **Prerequisite:** Admission to Graduate Program. D

DEPARTMENT OF KINESIOLOGY

KINES 3133 TEACHING HEALTH IN PUBLIC SCHOOLS

A course designed to study the science of personal and community health, the psychology of teaching health elements of child growth and development and adolescent health problems; planning and organizing for teaching mental health, nutrition, disease control and program appraisal. Understanding the role of health education in the total educational effort. F, S

KINES 3333 SAFETY EDUCATION

Safety Education is a course of study designed to provide safety information of a general nature appropriate to today's living. A knowledge base is developed in the areas of home safety, driver safety, job safety, recreation safety, and skill development as well as coping techniques for each. D

KINES 3393 NUTRITION FOR CHILDREN

A study of the basic knowledge of nutrition with emphasis on the nutritional needs of children and ways of implementing nutrition education. D

KINES 3443 KINESIOLOGY AND ANATOMY

The study of anatomy, osteology and the muscular system which affect and/or are affected by movement and sports related performance. F, S

KINES 3553 METHODS AND MATERIALS IN ELEMENTARY HEALTH, PHYSICAL EDUCATION & RECREATION

Theory and practice in teaching physical education activities at the elementary level with emphasis on methods, materials, planning, and conducting elementary programs. F, S, SU

KINES 4001-4 INDIVIDUAL STUDY IN HEALTH, PHYSICAL EDUCATION AND RECREATION (TOPIC)

Independent study of specified topic in health, physical education, and recreation for undergraduate students. Credit one to four semester hours. D

KINES 4011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION

Group study of specified topic for health, physical education and recreation for the undergraduate student. Credit one to four semester hours. D

KINES 4052 SOCIOLOGY OF SPORTS

Study of sports in society as they relate to: Competition at all levels, sports for youngsters, minorities in sports and future of sports. S

KINES 4063 LEGAL ASPECTS IN PHYSICAL EDUCATION, RECREATION, AND ATHLETICS

An in depth analysis and study of legal liability for the practitioner as it relates to physical education, recreation and athletics. The course presents an overview of legal issues, duties and liability as they relate to student rights, teacher rights, and conduct of programs, as well as causes and prevention of accidents which could result in liability suits. F

KINES 4073 EVALUATION IN PHYSICAL EDUCATION

Knowledge and principles in techniques of evaluation and measurement and test construction in physical education. D

KINES 4113 ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION & RECREATION

A study of the organization and administration of physical education programs in the public schools, colleges, and with special populations. D

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KINES 4122 ORGANIZATION AND ADMINISTRATION OF ATHLETICS

A study of the organization and administration of athletic programs for the public schools and colleges. **D**

KINES 4222 ORGANIZATION AND MANAGEMENT OF INTRAMURALS

A study of the content and conduct of intramural sports. Practical experience. **F, S**

KINES 4234 EXERCISE PHYSIOLOGY

A study of conditions that are related to the learning of movement-oriented skills, improvement of motor performance, and physiological effects of exercise. **F S**

KINES 4243 THERAPEUTIC AND PRESCRIPTIVE PHYSICAL EDUCATION

A course designed to increase knowledge and understanding of the uniqueness of individuals with special needs. Emphasis in modifying physical activities for exceptional children; motor testing; analyses of skill development and principles in techniques of evaluation/assessment in physical education. **F, S**

KINES 4262 MOTOR LEARNING

A study of the body of knowledge underlying the development of successful instruction and training strategies critical for skill acquisition. Motor learning issues are viewed from a behavioral perspective with emphasis on application and performance. **S**

KINES 4333 PRINCIPLES & HISTORY OF HEALTH, PHYSICAL EDUCATION

Introduction to physical education, history of physical education; concepts and principles related to biological, psychological, and sociological factors that affect development of the individual. **D**

KINES 4353 MOTOR DEVELOPMENT

The study of the acquisition and development of motor skills such as standing, balancing, moving, and manipulating objects as encountered in a child's environment. The further identification and study of the various developmental stages as children pass from early childhood, to middle childhood and to late childhood. **D**

KINES 4443 METHODS OF TEACHING SAFETY EDUCATION

Methods and materials in the conduct of public school safety program. **D**

KINES 4541 CAPSTONE EXPERIENCE IN HPE

The Capstone Experience in Health and Physical Education course is designed to be a capstone experience for the HPE major in Teacher Education. The course is the academic crowning point for the major. Information is offered to the student regarding entry into the teaching professional semester and the profession. State comprehensive testing and information is also covered. Additionally opportunities in the profession and the professional application of the knowledge they have acquired are addressed. **Corequisite: KINES 4553. Prerequisite: Admission to Teacher Education Program. F**

KINES 4553 TEACHERS COURSE IN HEALTH AND PHYSICAL EDUCATION

Problems, methods, and materials for teaching physical education in grades K-12. **Corequisite: KINES 4541. Prerequisite: Admission to Teacher Education Program. F**

KINES 4802 THEORY OF COACHING FOOTBALL

Designed more for male students. Knowledge and preparation in techniques and methods of coaching football. **F, S**

KINES 4832 THEORY OF COACHING BASKETBALL

Fundamentals and techniques applied to coaching basketball. **F, S**

KINES 4842 THEORY OF COACHING WOMEN'S BASKETBALL

Fundamentals and techniques applied to coaching women's basketball. **D**

KINES 4862 THEORY OF COACHING BASEBALL

Knowledge and preparation in techniques and methods applied to coaching baseball. **F, S**

KINES 4873 CURRICULUM CONSTRUCTION IN HEALTH, PHYSICAL EDUCATION AND RECREATION

A study of the methodology of developing curriculum materials in health, physical education and recreation. **D**

KINES 5001-4 INDIVIDUAL STUDY IN HEALTH AND PHYSICAL EDUCATION (TOPIC)

Individual study of specified topic in health, physical education, and recreation for graduate students. Credit one to four semester hours. **Prerequisite: Admission to the Graduate Program. D**

KINES 5011-4 SEMINAR IN HEALTH AND PHYSICAL EDUCATION (TOPIC)

Group study of specified topic in health, physical education, and recreation for graduate students. Credit one to four hours. **D**

KINES 5223 PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION

Problem identification and solution in these areas of specialization are pursued. **Prerequisite: Admission to the Graduate Program. D**

KINES 5552 HEALTH EDUCATION IN PUBLIC SCHOOL

Designed to acquaint teachers with areas of health education, health instruction, health services, and healthful school living; development of programs. **Prerequisite: Admission to the Graduate Program. D**

**DEPARTMENT OF PARKS AND RECREATION
MANAGEMENT**

PRM 3113 SAILING, CANOEING, HIKING, AND CLIMBING

Basic instruction and practice in techniques applied to sailing, canoeing, hiking, rappelling, and other adventure activities. **F, S**

PRM 3122 WILDERNESS FIRST AID

Designed to provide the student with a solid background in backcountry medicine. Emphasis is placed on practical, improvised wilderness first aid techniques. **F,S**

PRM 3132 WILDERNESS SURVIVAL

Theory and practice of survival / primitive living in remote wilderness settings. Topics include edible plants, shelter building, snare construction, bow and drill construction / fire starting, implement construction, etc. **F, S**

PRM 3133 EMERGENCY RESPONSE

Fundamentals of response to emergency situations. Successful completion of the Course leads to American Red Cross certification in Emergency Response and CPR for the Professional Rescuer. **F**

PRM 3142 ADVANCED WILDERNESS SURVIVAL

Theory and practice of advanced survival in remote wilderness settings. Topics include advanced foraging, water procurement, shelter construction, and fire starting. This course is held entirely in wilderness settings. Three nights of camping are required. Students will procure the entirety of their meals and water from the surrounding environment. **SU**

PRM 3152 SCUBA

Theory and practice of skills and techniques, selection of equipment, safety procedures, and physics of scuba diving. **Prerequisite: Advanced swimming skills. F, S**

PRM 3161 LIFEGUARDING

Theory and practice of lifeguarding. Leads to American Red Cross certification in Lifeguarding, First Aid, CPR for the Professional Rescuer, and Automated External Defibrillator. **S**

PRM 3171 LIFEGUARD INSTRUCTOR

Based on requirements of the American Red Cross Lifeguard Instructors Certification course. Successful completion leads to certification with the American Red Cross as a lifeguard instructor. Lifeguard instructor course is designed to produce basic and advanced lifeguarding skills. **D**

PRM 3181 ROCK CLIMBING

Theory and practice of rock climbing. This physically-demanding, overnight course involves instruction in knot-tying, natural and artificial anchor rigging, top-rope climbing techniques, and placement of artificial climbing protection. **SU**

PRM 3201 TRAIL RIDING

Theory and practice of equestrian trail riding. Topics include basic equestrian care, equestrian travel, land navigation, and camping. **F, SU**

PRM 3211 OUTDOOR EDUCATION / ADVENTURE PROGRAMMING

Designed to increase knowledge and understanding of a variety of activities associated with outdoor education and adventure programming including: low and high challenge course, artificial rock climbing, canoeing, sailing, rappelling, and rappelling self-rescue. Historical background and theoretical perspectives of outdoor education and adventure programming will be discussed. **SU**

PRM 3221 OUTDOOR EDUCATION FOR TEACHERS

Designed to expose current and prospective teachers to a variety of outdoor education and adventure activities that can be conducted on or near school grounds. Topics include: initiative games, low ropes course activities, group processing, knot tying, topographic map reading, compass techniques, field guide use, and hiking. Exposure to historical background and theoretical perspectives of outdoor education and adventure programming. **D**

PRM 3262 ADVANCED SCUBA / SLAM

Theory and practice of advanced SCUBA techniques including SCUBA lifesaving and accident management techniques. Leads to YMCA certification in Advanced SCUBA and SLAM (SCUBA Lifesaving and Accident Management). **D**

PRM 3421 BASIC ROPES COURSE FACILITATOIN

Exposure to the fundamentals of challenge course facilitation. Topics include low and high course facilitation, knot tying, climbing, rappelling, rappelling self-rescue, rope rigging, and ropes course rescue. Emphasis placed on psychological and sociological outcomes associated with challenge course programming. **SU**

PRM 3432 ROPES COURSE FACILITATION

Theory and practice of challenge course facilitation. Topics include low and high course facilitation, knot tying, climbing, rappelling, rappelling self-rescue, rope rigging, ropes course rescue, and prussiking. Emphasis placed on psychological and sociological outcomes associated with challenge course programming. **F, S**

PRM 3441 HIGH ANGLE RESCUE

Rope rescue techniques and practices. Including rappelling, rappelling self-rescue, rappelling pick-offs, victim stokes basket packaging, lowering and raising. **SU**

PRM 3452 ADVANCED ROPES

Theory and practice of advanced challenge course facilitation, rock, and rescue site management. Topics include all areas of high challenge course facilitation, knot tying, high element rigging and ropes course rescue. Other topics will include rappelling, rappelling self rescue, and fixed line ascension. Special attention will be given to rock climbing and rappelling anchor rigging as well as high angle rescue techniques including rappelling pick-off rescues, victim stokes basket packaging, lowering, and raising. **F, S**

PRM 3503 SPORTS MANAGEMENT

Theory and practice of sports management. Topics include sports management, marketing, human resource management, contracting, and related areas. **F, S**

PRM 3663 RECREATION MANAGEMENT

Theory and practice of parks, recreation, and leisure service management. Topics include fiscal management, human resource management, and risk management in the parks and recreation field. **F, S**

PRM 3702 RECREATIONAL AREAS AND FACILITIES MANAGEMENT

Theory and practice of recreational areas and facilities management. Special emphasis is placed on planning and design of parks, recreational, and sporting areas and facilities. **F, S, SU**

PRM 4010-4 SEMINAR IN PARKS AND RECREATION MANAGEMENT

Group study of specified topic for the Parks and Recreation Management undergraduate student. Credit of one to four semester hours. **D**

PRM 4012 LAND USE PLANNING

Study of the law and regulation of ownership and use of land by local and state government. Topics covered include regulation of agriculture and commercial land including laws specific to Oklahoma rural agricultural land. Laws dealing with water rights, eminent domain and protection of environmentally sensitive land and endangered species are also discussed. S

PRM 4113 RISK MANAGEMENT IN RECREATION

Designed to expose parks and recreation management / park law enforcement majors and minors to current trends and issues relating to risk management and legal liability minimization. **F, S, SU**

PRM 4122 RECREATION AND SPORT MANAGEMENT LAW

An intensive study of legal issues relating to parks, recreation, and sport management. **F**

PRM 4132 RECREATION AND SPORT EMPLOYMENT LAW

An intensive study of legal issues relating to employment / human resource management in parks, recreation, and sport agencies. **S**

PRM 4142 ETHICS IN RECREATION AND SPORT MANAGEMENT

An intensive study of ethics in park, recreation, and sport management. **S**

PRM 4152 RECREATION AND SPORT MANAGEMENT STATISTICS

Designed to provide the student with a solid foundation in the field of statistics. The course is taught through the lens of recreation and sport management. Topics include measures of central tendency, analysis of variance, multiple regression analysis, etc.

PRM 4163 COMMUNITY RECREATION

Organization and administration of community based parks and recreation areas, facilities, and programs. **F, S, SU**

PRM 4172 NATURAL RESOURCE LAW

An intensive study of federal and Oklahoma laws relating to land, water, wildlife, and environmental management. **F, S**

PRM 4201 THE PARK RANGER

Theory and practice of park law enforcement. **F**

PRM 4211 GAME AND FISH LAW

Introduction to federal and state laws pertaining to game and fish management. **S**

PRM 4221 SMALL CRAFT SAFETY

Theory and practice of small craft safety and boating law. **F**

PRM 4231 CUSTODY AND CONTROL

Theory and practice of criminal custody and control techniques. Special emphasis is placed on compliance, handcuffing, and defensive techniques. **F, S**

4241 FIREARM SAFETY

Theory and practice of law enforcement firearm use and safety. Special emphasis is placed on defensive handgun and shotgun safety, management, deployment, and marksmanship. F, S

PRM 4502 RODEO MANAGEMENT

Theory and practice of rodeo management. Includes rodeo planning, marketing, and execution. **S**

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PRM 4513 GOLF MANAGEMENT

Theory and practice of golf course management. Special emphasis will be placed on fiscal and human resource management issues, PGA standards, marketing, and turf management practices. **F, S**

PRM 4533 SPORTS INFO MANAGEMENT

Provides the student with an overview of the sports information field. Topics will include marketing, fundraising, statistics, and media contact. **F, S**

PRM 4663 OUTDOOR RECREATION

A study of philosophy, principles, and concepts of outdoor recreation program planning. Focuses on the development of outdoor recreation, outdoor adventure, and organized camping programs. **F, S**

PRM 4712 OUTDOOR LEISURE EDUCATION SEMINAR

Group study in assigned topics of outdoor leisure education: Basic outdoor skills and techniques with emphasis on camping, adventure activities and environmental education. **D**

PRM 4773 NATURAL RESOURCE RECREATION MANAGEMENT

Theory and practice of natural resource and park area management. Special attention is placed on the organization and administration of state and federal level natural resource areas. Interpretive techniques in natural, cultural, and historical sites are discussed as well. **F, S**

PRM 4993-8 INTERNSHIP IN PROFESSIONAL RECREATION

Practical application, devoted to serving an apprenticeship in a professional parks and recreation setting. Students serve under selected recreational professionals in a variety of local, state, federal and non-profit agencies. **F, S, SU**

PRM 5001-4 INDEPENDENT STUDY IN PARKS AND RECREATION MANAGEMENT

Independent study in parks and recreation management and associated fields. Credit one to four semester hours. **Prerequisite: Admission to Graduate Program. D**

PRM 5103 INTERNSHIP IN PARKS AND RECREATION MANAGEMENT

Graduate students serve an internship in parks and recreation management with a federal, state, local, or non-profit agency. **F, S, SU**

PRM 5113 INTERNSHIP IN SPORTS MANAGEMENT

Graduate students serve an internship in sports management in a selected setting. **F, S, SU**

PRM 5203 RESEARCH IN PARKS AND RECREATION MANAGEMENT

Research in a parks and recreation management topic are assigned. **F,S, SU**

PRM 5213 RESEARCH IN SPORTS MANAGEMENT

Research in a sports management topic as assigned. **F, S, SU**

PRM 5902 DIRECTED READINGS IN PARKS AND RECREATION MANAGEMENT

Directed readings in parks and recreation management as assigned by the instructor. **F, S, SU**

PRM 5912 DIRECTED READINGS IN SPORTS MANAGEMENT

Directed readings in sports management topics as assigned by the instructor. **F, S, SU**

DEPARTMENT OF PSYCHOLOGY

Counseling

COUN 4011-4 SEMINAR IN COUNSELING (TOPIC)

Group study of specified topic. Credit one to four semester hours.

COUN 5011-4 SEMINAR IN COUNSELING (TOPIC)

Group study of specified topic. One to four credit hours. **Prerequisite: By permission only and Admission to Graduate Program. SU**

COUN 5213 COMMUNITY COUNSELING

A course for prospective community counselors designed to investigate the special characteristics and functions of community counseling. **Prerequisite: Admission to Graduate Program. S, SU**

COUN 5373 THEORIES/TECHNIQUES OF FAMILY COUNSELING

A survey of family counseling theories and techniques with special emphasis on family relationships, assessment, intervention, and treatment. **Prerequisite: Admission to Graduate Program. F, SU**

COUN 5423 MULTICULTURAL CONCEPTS

This course is designed to prepare individual's for multicultural competence in a global society. The curriculum will engage students in theoretical, experimental, and research-oriented experiences in order to develop a comprehensive multicultural understanding that will lead to effective and ethical practice. **Prerequisite: Admission to Graduate Program. S**

COUN 5503 DEVELOPMENT OF SCHOOL GUIDANCE PROGRAM

Designed for prospective school counselors to improve interpersonal skills, investigate the characteristics and functions of school counseling and program development. **Prerequisite: Admission to Graduate Program. SU**

COUN 5513 INTRODUCTION TO COUNSELING AND GUIDANCE

Introduction to guidance programs in community counseling centers and the elementary and secondary school as it involves the teacher, counselor, and administrators. **Prerequisite: Admission to Graduate Program. F, S, SU**

COUN 5523 CAREER COUNSELING

A course designed for counselors, teachers, guidance directors, school administrators, media specialists, and persons working in employment assistance, vocational, and life planning and development areas. Course information is oriented relative to educational and world-of-work opportunities including knowledge relative to labor market information & including current and projected economic trends. **Prerequisite: Admission to Graduate Program. S, SU**

COUN 5543 THEORIES OF COUNSELING

Designed to teach individual counseling theories and techniques. Application to community and public school counseling programs is stressed. **Prerequisite: Admission to Graduate Program. F, SU**

COUN 5553 THEORIES AND TECHNIQUES OF GROUP COUNSELING

Designed to teach group counseling techniques appropriate to group counseling. Application to agency and public school counseling programs stressed. **Prerequisite: Admission to Graduate Program. F, SU, S**

COUN 5563 PRACTICUM IN COUNSELING

Course includes practical application of knowledge and techniques learned in previous course work to be applied in schools and/or community agency settings. Requires 150 hours of field experience. and a grade of "B" or better for successful completion. **Prerequisites: Admission to Graduate Program.**

COUN 5593 ADVANCED TESTS AND MEASUREMENTS

A course designed to give educators and counselors advanced understanding of tests and measurement issues, design, development and interpretation for diagnosis and/or educational purposes. **Prerequisite: Admission to Graduate Program. S, SU**

COUN 5893 ETHICAL, LEGAL AND PROFESSIONAL STANDARDS

An examination of the objectives of professional organizations, codes of ethics, legal aspects of practice, family law, standards of preparation and the role identity of persons providing direct counseling services. **Prerequisite: Admission to Graduate Program. S, SU, F**

Psychology

PSYCH 3201-4 CONTEMPORARY PROBLEMS IN PSYCHOLOGY (TOPIC)

Analysis of current topics in psychology. This course offers the student and instructor an opportunity to explore in depth selected problems of current

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interest. Credit one to four semester hours. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3224 RESEARCH METHODS

Introduction to major types of designs and laboratory techniques employed in psychological experimentation. Emphasis is placed on methods used in memory and perception research. **Prerequisite:** PSYCH 1003 and PSYCH 2433. F, S

PSYCH 3233 LEARNING AND MEMORY

Overview of traditional and contemporary learning principles and theories. Coverage of the main issues in memory and thinking. **Prerequisite:** PSYCH 1003. S

PSYCH 3243 CROSS-CULTURAL PSYCHOLOGY

Identifies psychological similarities and differences among various cultural groups within American society and explores cultural issues in a psychotherapeutic setting. **Prerequisite:** PSYCH 1003. F

PSYCH 3253 PSYCHOLOGICAL TESTS

The construction, validation, and interpretation of psychological tests with emphasis on the application of tests to the clinical evaluation of the individual. **Prerequisite:** PSYCH 1003 and PSYCH 2433. F

PSYCH 3323 ABNORMAL PSYCHOLOGY

A study of the history, theories, principles, and causes of abnormal behavior including an analysis of various therapy techniques. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3333 BEHAVIOR MANAGEMENT

Provides an introduction to behavior modification techniques in applied settings. The major focus of the course is on the application of operant conditioning principles, the implementation of behavior modification techniques, and the measurement and evaluation of program effectiveness in schools, hospitals, and industry. **Prerequisite:** PSYCH 1003. F, S, SU

PSYCH 3363 PSYCHOLOGY OF PERSONALITY

An analysis and comparison of major personality theories including a review of research that tests propositions from the various theories. **Prerequisite:** PSYCH 1003. F, SU

PSYCH 3503 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY

A study of psychological principles relevant to business and industry. Major topics include employee selection, training and evaluation, leadership, motivation, social groups, human factors, stress, and consumer psychology. **Prerequisite:** PSYCH 1003. S

PSYCH 4011-4 SEMINAR IN PSYCHOLOGY (TOPIC)

Seminar in selected areas of psychology with special emphasis placed upon theories and application in the topic areas. **Prerequisite:** PSYCH 1003. F, S

PSYCH 4113 ISSUES IN CHEMICAL DEPENDENCY TREATMENT

Explores issues related to chemical abuse, dependency, and addictive behaviors with a focus on current treatment approaches. **Prerequisite:** PSYCH 1003. S

PSYCH 4123 THEORIES AND PRINCIPLES OF PSYCHOTHERAPY

Fundamental skills and principles of therapy are derived from the major theories of psychotherapy. Includes experiential teaching such as role playing and simulated problems. **Prerequisite:** PSYCH 1003 and PSYCH 3323. S

PSYCH 4203 PSYCHOLOGY OF WOMEN

This course is designed to examine the differences in behaviors and mental experiences of women and men. An emphasis will be placed on developing an understanding of how differences between men and women are explained both by various professions and the public. **Prerequisite:** PSYCH 1003. S

PSYCH 4223 MEDIA AND MENTAL ILLNESS

Designed to develop and increased student understanding of the impact of psychological dysfunctions demonstrated by areas of instruction which include interactive effects, interpersonal relationships, cultural attitudes toward

psychological disorders, effects of institutional treatment, and responses to abnormal behavior. **Prerequisite:** PSYCH 1003. SU, F

PSYCH 4313 INTRODUCTION TO CLINICAL PSYCHOLOGY

Broad overview of diagnosis and treatment of major psychological disorders and psychotherapeutic interventions (treatment). Emphasis placed on professional and theoretical problems and goals of psychotherapy. **Prerequisite:** PSYCH 1003. F

PSYCH 4333 PHYSIOLOGICAL PSYCHOLOGY

A study of the physiological basis of behavior. Emphasis placed on the structure and function of the neuron, synapse and different components of the nervous system as well as sensory and motor processes and physiological substrate of motivation, emotions, sleep and learning. **Prerequisite:** PSYCH 1003. F

PSYCH 4371-4 PSYCHOLOGICAL RESEARCH (TOPIC)

Directed research on a special problem in psychology. Research may be basically experimental or involve intensive study of the literature of a special problem. **Prerequisite:** PSYCH 1003; departmental permission. F, S, SU

PSYCH 4391-4 ADVANCED SEMINAR IN PSYCHOLOGY (TOPIC)

Intensive study of specific topics and problems in psychology by means of lecture, discussions, and supervised research conducted in the laboratory and the field. Credit one to four semester hours. **Enrollment by departmental permission. D**

PSYCH 4533 LANGUAGE DEVELOPMENT

Covers the general issues and theories pertaining to language development as well as an overview of language and speech disorders. **Prerequisite:** PSYCH 1003. S, SU

PSYCH 5133 CRISIS INTERVENTION TECHNIQUES

An applied course in the principles and use of crisis intervention techniques within clinical and institutional settings. **Prerequisite:** Admission to Graduate Program. By signature only. S

PSYCH 5143 RESEARCH METHODS

Provide students with an applied experience in the design, implementation, and evaluation of human subjects research. The course emphasizes hypothesis testing, applied statistics, professional writing skills, ethical issues in research, and research design. **Prerequisite:** Advanced standing in the Master of Science in Community Counseling Program or departmental permission. S

PSYCH 5223 TECHNIQUES OF PSYCHOTHERAPY

Advanced study in treatment conceptualization, strategies, and techniques derived from theories of psychotherapy. **Prerequisite:** Admission to Graduate Program. By signature only. S

PSYCH 5413 PERSONALITY THEORIES/RESEARCH

An in-depth coverage of the major theoretical approaches to personality with the objective of integrating theory and research. **Prerequisite:** Admission to Graduate Program. SU

PSYCH 5783 ADVANCED PSYCHOLOGICAL TESTING

A study of various psychological techniques used in the assessment of personality & psychological disorders. **Prerequisite:** Admission to Graduate Program. F

Educational Psychology

EDPSY 5462 PSYCHOMETRIC SERVICES

A study of the ethics, legal responsibilities, roles, and functions of Psychometrists in multiple settings. **Prerequisites:** Admission to Graduate Program, Advisor Approval. S

EDPSY 5563 SPECIAL DIAGNOSTIC METHODS (Psychology)

A study of various psychological techniques used in the assessment of personality & psychological disorders. **Prerequisite:** Admission to Graduate Program. By signature only. S

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EDPSY 5613 BINET/WOODCOCK-JOHNSON

Study of the historical development, validation procedures, and test content of the Stanford Binet/Woodcock Johnson Intelligence tests. Students will administer, score, and interpret the Stanford Binet Intelligence Scale-R and the Woodcock Johnson. **Prerequisites:** Admission to Graduate Program, Advisor Approval. S

EDPSY 5713 WECHSLER INTELLIGENCE SCALES

Study of the historical development, validation procedures, and test content of the various Wechsler Intelligence Scales. Students will administer, score and interpret the various scales. **Prerequisites:** Admission to Graduate Program, Advisor Approval. F, SU

EDPSY 5703 BEHAVIORAL INTERVENTION STRATEGIES

This course provides information about behavioral assessment methods; strategies for increasing the frequency of appropriate behaviors; cognitive behavioral systems of instruction; techniques for reduction of excessive behaviors; legal and ethical issues; and interventions for a variety of problematic behaviors. The student will study the use of behavioral learning theory in instructional design as well as the impact of cultural influences on behavior. **Prerequisites:** Admission to Graduate Program, S, Su

EDPSY 5723 ADVANCED PSYCHOLOGY OF LEARNING

An intensive examination of the learning systems, developmental capability and expectations, and interpretations of human learning as they influence student achievement in the classroom. Major objectives are also directed to competency mastery of the Competencies for Licensure and Certification, the objectives for the Professional Teaching Examination, and objectives for the Competencies for School Administrators as presented by the Oklahoma Commission for Teacher Preparation. **Prerequisite:** Admission to the Graduate Program. F, S, SU

EDPSY 5743 LIFE SPAN DEVELOPMENT

An examination of the increasingly complex factors which influence overall development of individuals throughout the life span concept. Including in this presentation are psychological foundations, maturational development, learning

capability, social adjustment, and career preparation. **Prerequisite:** Admission to the Graduate Program. S, SU

EDPSY 5782 PRACTICUM SCHOOL PSYCHOMETRY

Supervised experiences in the administration, scoring, and interpretation of individual intelligence scales and other diagnostic assessment/evaluation instruments. **Prerequisites:** Admission to Graduate Program, Advisor Approval. F, SU

Social Work

SOCWK 3863 RESEARCH FOR SOCIAL WORK

Introduction to scientific philosophy and research methodologies applied to the profession. Application of research studies and critical analysis of data for evaluation of ethical, knowledge-guided generalist social work practice. **Prerequisite:** PSYCH 2433 OR SOCSC 3853.

SOCWK 4013 SEMINAR IN SOCIAL WORK (TOPIC)

Intensive study on selected topic in social work. Credit from one to four hours. May be repeated with change of subject for a total of 12 hours. F

SOCWK 4313 CULTURAL DIVERSITY

Study of similarities and differences in cultural patterns and institutions in traditional and modern societies world wide. Examination of cultural transmission, continuity, adaptation, and change. S

SCHOOL OF BUSINESS AND TECHNOLOGY

**DEPARTMENT OF ACCOUNTING, COMPUTER SCIENCE,
AND ENTREPRENEURSHIP**

Accounting

ACCTG 4003 INDIVIDUAL STUDY IN ACCOUNTING (TOPIC)

Independent study of selected topics under the supervision of an accounting faculty member. **Prerequisite:** Instructor, Advisor, and Chair approval. D

ACCTG 4013 SEMINAR IN ACCOUNTING (TOPIC)

Group study of specified topics in accounting. **Prerequisite:** Instructor and Advisor approval. D

ACCTG 4113 ACCOUNTING FOR GOVERNMENT/NON-PROFIT ORGANIZATIONS

A study of fund accounting and reporting in relation to government entities, health care and educational institutions. **Prerequisite:** ACCTG 2313. D

ACCTG 4213 AUDITING I

Audit procedure, classification of audits, audit working papers and reports, methods of verification of financial statements, practical applications; maintenance and improvement of internal controls. **Prerequisite:** ACCTG 3323 and ACCTG 3713. F

ACCTG 4313 INCOME TAX ACCOUNTING I

Introduction to general concepts of federal income tax law as it applies to individuals, corporations, partnerships, fiduciaries and estate gift tax. **Prerequisite:** ACCTG 2313. F

ACCTG 4323 INCOME TAX ACCOUNTING II

A continuation of the study of federal income, estate and gift taxes with emphasis on technical knowledge needed by accounting majors. **Prerequisite:** ACCTG 4313. S

ACCTG 4333 INTERNSHIP IN ACCOUNTING

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in accounting who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Chair. D

ACCTG 4513 AUDITING II

Continuation of Auditing I to include Computer Assisted Audit Tools (CAAT) and case studies in auditing. **Prerequisites:** ACCTG 4213. D

ACCTG 4613 ADVANCED ACCOUNTING

A study of accounting topics of an advanced nature including partnerships, fiduciaries, parent and subsidiary accounting. **Prerequisite:** ACCTG 3323. S

ACCTG 4623 ACCOUNTING THEORY

Advanced accounting concepts and standards. Emphasis is placed on both a historical and contemporary perspective of the development of generally accepted accounting principles. **Prerequisite:** ACCTG 3323. D

ACCTG 4643 GLOBALIZATION OF ACCOUNTING, FINANCE & INVESTMENTS

A study of accounting for operations of multinational enterprises as they relate to a wide variety of regulatory, social and environmental influences. Subjects include the foreign currency translation, foreign exchange risk management,

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financing tools, and investments related to global entities. **Prerequisites:** ACCTG 2313 and FINAN 3343, *FINAN 3663 Recommended*. F, S

ACCTG 4763 ADVANCED COST/MANAGERIAL TOPICS

Topics of an advanced nature dealing with special cost analyses and decision-making techniques. **Prerequisite:** ACCTG 3713. D

ACCTG 5003 INDIVIDUAL STUDY IN ACCOUNTING (TOPIC)

Independent study of selected topics for graduate students under the supervision of an accounting faculty member. **Prerequisite:** Instructor, graduate advisor, and Chair approval. D

ACCTG 5013 SEMINAR IN ACCOUNTING (TOPIC)

Seminar for graduate students in selected accounting topics. **Prerequisite:** Instructor and graduate advisor approval. D

ACCTG 5333 INTERNSHIP IN ACCOUNTING

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in Accounting who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by the supervising faculty, advisor, and Chair. D

ACCTG 5523 RESEARCH AND PLANNING IN FEDERAL TAXATION

Development and administration of federal tax law with emphasis on skills for tax research, advanced analysis and application of techniques to tax planning. **Prerequisites:** ACCTG 4313, ACCTG 4323 or equivalent (recommended), and MBA advisor approval. S

ACCTG 5633 FINANCIAL ACCOUNTING FOR DECISION MAKING

Emphasis is upon use of financial and managerial accounting with special attention placed on interpretation of financial statements and their significance in making business decisions. **Prerequisites:** ACCTG 2313 or equivalent and graduate advisor approval. F

Computer Science

COMSC 3013 COMPUTER ARCHITECTURE

Study of a modern computer system as a layered structure. Digital logic, micro programming, Von Neumann machines, operating systems, assembly and high-level virtual machines, emphasizing fundamental concepts of each layer in the hierarchy and relationships between the layers. **Prerequisite:** COMSC 2413. S

COMSC 3043 SYSTEMS PROGRAMMING

The aim of this course is to introduce students to the concepts essential for understanding how to make use of the resources provided by a multi-processing operating system. Particular attention is paid to utilities that may be available for systems management tasks and to questions of inter-process communication. The course falls fairly naturally into five parts: utilities, system calls, networking, inter-process communication, the OSI network model, Sockets and Remote Procedure Calls. The system of reference is Linux/Unix. **Prerequisite:** COMSC 2413. S

COMSC 3053 OPERATING SYSTEMS

Introduction to different types of operating systems, overview of operating system architecture, processes, shared resources, security, memory management, resource allocation, scheduling deadlocks, and file management. Emphasis will be on the algorithms associated with the above concepts and implementing them as programming assignments individually. **Prerequisite:** COMSC 1053. F

COMSC 3133 SOFTWARE ENGINEERING

Techniques and procedures for developing software products and supporting documentation. Emphasis on software life cycle models and teamwork in the development of software products. **Prerequisite:** COMSC 3053. S

COMSC 3153 DATA COMMUNICATIONS AND NETWORKS

This course is an introduction to data communication technology and protocols/standards, local area networks, wide area networks, and the Internet is provided. The trends in regulation and telecommunications technology

applicable to the transmission of voice, data, and images are examined. **Prerequisite:** -COMSC 2043 AND COMSC 3413. S

COMSC 3253 INTRODUCTION TO COMPUTER FORENSICS

The aim of this course is to focus on providing a clear and authoritative instruction to the field of computer forensics as it applies to the investigative process; from the collection of digital evidence to the presentation of Computer Forensic Examination findings in a court of law. Upon successful completion of the course, students will have a basic understanding of the computer forensic process, the scientific procedure involved, and how the science of computer forensics relates to and is utilized within the judicial system of the United States. D

COMSC 3353 SYSTEMS ANALYSIS AND DESIGN

A study of the techniques for needs analysis development of requirements specifications for an application system is undertaken in this course. The implementation of operational systems and selection of hardware/software are examined in detail. The importance/impact of organizational behavior is evaluated in the context of support systems design. Topics, such as System Development Life Cycle (SDLC), Rapid Application Development (RAD) will be covered. Process analysis and design, development of functional specifications, physical design, and operational design will be discussed in test cases presented to and by students. **Prerequisite:** COMSC 3053. F

COMSC 3403 DATABASE SYSTEMS

This is an introduction course about relational databases. The course covers topics such as relational database model, entity relationship modeling, normalization, SQL language, transaction management and concurrency control, role of databases in the management/operation of a business, implementation, and maintenance of databases using Database Management Software (DBMS) products. **Prerequisite:** COMSC 1022 and COMSC 1053. F, S

COMSC 3513 IS PROJECT MANAGEMENT

This course will train the students in planning, scheduling, and controlling an Information System (IS) project during its life cycle. Techniques for planning, scheduling, and controlling projects will be discussed and applied. Demonstrations and exercises in using project-management software (such as Primavera and MS project) are provided. Students will be given an opportunity to develop and execute an IS project and address issues such as staffing, scheduling, risk assessment and control, and project close-out. **Prerequisites:** COMSC 3133. F

COMSC 3603 HARDWARE/SOFTWARE CONCEPTS

This course provides an overview of computers and computer systems. It covers topics such as systems architecture, the relationships between hardware architecture, systems software, applications software, communications protocols, and storage technologies. The relationship between the design parameters of hardware and systems software and the development process for application programs are analyzed. The emerging Internet technologies including hardware and software are discussed. F

COMSC 3853 COMPUTER FORENSICS ANALYSIS

This course will focus on providing a clear and authoritative understanding of the basic tenants of Computer Forensics and give students an introduction to the Forensic Software Application "Forensic ToolKit" version 3.0. **Prerequisite:** COMSC 3253 D

COMSC 3913 WEB DEVELOPMENT

A study of Web Development using Macromedia Dreamweaver. Covers static and dynamic content, links, page layout, cascading styling sheets, and media objects. A significant student project is required. F

COMSC 3933 MULTIMEDIA SYSTEMS - DESIGN AND EVALUATION

An investigation of microprocessor-based multimedia systems and their applications is the central theme of this course. Techniques and processes for creating professional presentations based on utilization of sound, clip art, video, and text will be studied. Students will be familiarized with the utilization of the Internet as a resource for multimedia systems/projects. Hardware selection will be discussed. Students will also examine the effect of multimedia presentations on social issues associated with the application environment. **Corequisite:** COMSC 3153 or departmental approval. S

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COMSC 4001-4 INDEPENDENT STUDY IN COMPUTER SCIENCE

Specified projects in computer science. One to four credit hours. **D**

COMSC 4011-4 COMPUTER SCIENCE SEMINAR

Group study of specified advanced topics in computer science. One to four credit hours. **D**

COMSC 4033 PRINCIPLES OF PROGRAMMING LANGUAGES

The aim of this course is to introduce students to the general principles and concepts underlying programming languages, including such topics as syntax and its specification, exception handling and memory management. Students will see how these topics fit into different types of programming languages which can be classified as logical, procedural, and object-oriented. **Prerequisite: COMSC 2043. F**

COMSC 4053 OBJECT-ORIENTED SOFTWARE ENGINEERING

Introduction to the evolution and the concepts of object oriented programming systems (OOPS) namely classes, objects, abstract data types, inheritance, polymorphism, dynamic binding, overriding, virtual functions and exceptions. The course will have programming assignments and projects that require the application of object-oriented software engineering methodology for developing and implementing information systems. **Prerequisite: COMSC 1053. S**

COMSC 4133 DESIGN AND ANALYSIS OF COMP. ALGORITHMS

Topics include asymptotic notations and analysis, big-O, recurrence relations, sorting (quick sort, merge sort...) and searching algorithms, divide and conquer, dynamic programming, basic graph algorithms, the greedy method, backtracking, NP-completeness. **Prerequisites: COMSC 2413. F**

COMSC 4453 ADVANCED DATABASE SYSTEMS

The course covers advanced topics in databases. Possible topics include multimedia databases, data on the Web, data mining and data warehousing as well as emerging issues and concepts in database design, implementation, and management. **Prerequisite: COMSC 3403. S**

COMSC 4513 KNOWLEDGE MANAGEMENT

This course starts with an analysis of information support systems that serve the management at all levels in the decision-making process. The decision-support system information is derived from various models and databases, within the organization and/or outside the organization. Theoretical concepts related to artificial intelligence (AI) studied. A study of various commercially available expert systems will be undertaken in the context of decision support systems test cases. **S**

COMSC 4913 E-COMMERCE WEB DEVELOPMENT

Topics include introduction to scripting; JavaScript and VB Script, dynamic HTML; Object Model, Collection Model and Event Model, Server Side Web Application Development with Scripting; assessing database and server data, Active Server Pages (ASP.NET), design and implementation of e-commerce transaction applications. Students will create sites for online order and other information processing using Microsoft's ASP.NET technology. **Prerequisite: COMSC 3913. S**

COMSC 4921-3 COMPUTER SCIENCE INTERNSHIP

Designed to prepare the student to cope with the professional challenges in the computer field. Students must complete two hundred forty hours of employment with an approved employer in the area of computer information systems support or development. Reports, meetings with other interns, and a presentation to the faculty are required. **Prerequisite: COMSC 2413 and departmental approval. D**

COMSC 4953 CS/IS CAPSTONE

Students will work in small groups under the supervision of a faculty advisor on real-world problem/requirement defined by a client in consultation with the advisor. The project team will work like a contractor and handle all facets of the project including cost estimation, scheduling, project management and control, technical work, documentation, and client interface. The final product of the program will be a project report. **Prerequisites: Senior Standing. S**

Entrepreneurship

ENTRP 4003 INDIVIDUAL STUDY IN ENTREPRENEURSHIP (TOPIC)

Independent study of selected topics under the supervision of a general business faculty member. **Prerequisite: Instructor, Advisor, and Chair approval. D**

ENTRP 4013 SEMINAR IN ENTREPRENEURSHIP (TOPIC)

Group study of special topics in general business. **Prerequisite: Instructor and Advisor approval. D**

ENTRP 4123 PROFESSIONAL ISSUES

In-depth study of human relations, job search, job interviewing, resume writing, etc., along with a study of current research/publications on workplace developments. **S**

ENTRP 4333 INTERNSHIP IN ENTREPRENEURSHIP

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in Entrepreneurship who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisites: Approval by the supervising faculty, Advisor, and Chair. D**

ENTRP 4513 KNOWLEDGE MANGEMENT

This hands-on course includes building Web 2.0 systems and the process of creating an effective, competitive organization for today's marketplace. This course begins with the basic concepts of management systems and progresses through blogging, wikis, and how to use these tools to create a knowledge capture system that allows companies to build strategy for knowledge as an asset. The course introduces the knowledge model used in the Malcolm Balridge National Quality Award and its application to education and business settings. **D**

ENTRP 5143 MANAGERIAL JURISPRUDENCE

This is a survey course in law, regulation and ethics. It covers a diverse group of legal areas including comparative legal systems, litigation, constitutional law, administrative regulation, torts, contracts, product liability, internet, employment and environmental law. The primary goals of the course are: 1) to enhance your ability to identify, analyze, and manage ethical and legal problems; 2) to encourage you to think about and critique the legal and regulatory environment; and 3) to improve your written and oral communication skills. **Prerequisite: Graduate advisor approval.**

DEPARTMENT OF ENGINEERING TECHNOLOGY

The Department of Engineering Technology schedules all major courses at night on a rotating semester basis.

TECH 3113 INDUSTRIAL SAFETY

Course emphasizes the recognition and prevention of unsafe working conditions. OSHA regulations are emphasized. **F, S**

TECH 3143 TECHNICAL PRESENTATIONS

Extensive practical exercises in research, reading and writing of technical descriptions, explanations of processes, instructions-, service manuals, progress reports and industrial proposals. **Prerequisites: ENGL 1213 F, S**

TECH 3173 ENVIRONMENTAL REGULATIONS

A study of the significant acts of environmental legislation, the role of various federal agencies, the history of environmental regulation and other environmental concerns. **SE**

MFET 3183 STATICS AND STRENGTHS

The study of force systems in two dimensions, equilibrium, moments, bending, stress, and strain. **Prerequisites: MATH 2823. F**

TECH 3203 COMPUTER AIDED DRAFTING I

A study of computer techniques for drafting including drawing, editing, and plotting commands. AutoCAD software is used to produce orthographic,

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schematic, pictorial, and architectural drawings. 3D drawing concepts are introduced. **F, S Prerequisite:** TECH 1203

TECH 3263 MACHINE DRAFTING I

Drawing machine parts with emphasis on auxiliary views, sections and dimensioning. Computers will be used for producing drawings. **Prerequisites:** TECH 1203 and TECH 3203. **F, S**

TECH 3323 MACHINE WOODWORK

The application of the safe and economic use of power equipment, tools, jigs, and fixtures in the manufacture of wood products. **Prerequisite:** TECH 1313. **D**

TECH 3413 MANUFACTURING PROCESSES

The study of industrial materials and processes from an engineering viewpoint. **Prerequisite:** TECH 2513. **S**

MFET 3433 AUTOMATION/ROBOTICS

A survey of automated manufacturing and related activities. **SE**

TECH 3453 INDUSTRIAL PLASTICS

A general overview of industrial plastic materials and processes including vacuum and pressure forming, molding and lay-up of selected media such as fiberglass, expandable polystyrene epoxy resins, and sheet materials. **S**

TECH 3463 MANUFACTURING OPERATIONS I

The study of management, productivity, quality, design, and work measurement in industry. **F**

TECH 3513 MATERIALS TESTING AND ANALYSIS

Testing materials for compression, tension and shear, using modern testing and measuring equipment. **Prerequisites:** MATH 1513 or MATH 1613. **F**

TECH 3523 FABRICATION PROCESSES II

Application of precision measuring instruments, foundry practices, ferrous metal heat treating, traditional industrial machine tools and a study of powder metallurgy. **Prerequisite:** TECH 2513. **S**

TECH 3613 POWER SYSTEMS

A study of energy sources, the devices that convert energy into useful work, and the control and transmission of power through mechanical units and fluids. **F, S**

TECH 3743 INTERMEDIATE CRAFTS/MATERIAL PROCESS

The application of tools, materials and processes as they relate to constructional activities and projects. Units include techniques in ceramics, graphics, metals, polymers and wood. **D**

TECH 3813 ELECTRO/MECHANICAL CONTROLS

A study of control electronics and control systems. Topics include: solenoids, relays, sensors, contactors, switches, timers, counter, PID controls, Programmable Logic Controllers, and servomotors. The course also includes an in-depth study of ladder logic programming. **Prerequisite:** TECH 1713 and MATH 2823. **F**

TECH 3823 INDUSTRIAL ELECTRONICS

A study of the different types of A.C. and D.C. motors and controls. Generator principles and A.C. rectification will be a part of the course along with single phase and three phase electricity as it applies to motors and generators. **Prerequisite:** TECH 1713. **F**

TECH 3833 COMMUNICATIONS ELECTRONICS

A study of communication technologies, wireless (radio transmission and reception, WIFI, and Microwave), wired communication (voice and data transmission topologies), and optical communication (fiber optic and infrared) complex circuitry will be explored implementing the use of signal generators, oscilloscopes, digital meters and transistor tests in the analysis of transistor characteristics as well as trouble-shooting of the circuitry. **Prerequisite:** TECH 1713. **FO**

TECH 3843 TELECOMMUNICATIONS

A study of the concepts and terminology used in the configuration and management of networks. Topics include integration, installation, configuration,

management, and security of modern network systems. This class focuses on the current Microsoft network operating system competencies. **Prerequisite:** TECH 1713. **SE**

TECH 3853 ELECTRONIC INSTRUMENTATION

A study of various pieces of equipment used to measure current, voltage, and resistance of electronic circuits. **Prerequisite:** TECH 1713. **SE**

TECH 3863 ELECTRONIC TROUBLE SHOOTING

A study of the knowledgebase and skills necessary to service microcomputer operating systems, including installation, and configuration. This course focuses on the COMP/TIA A+220-604 competencies. **Prerequisite:** TECH 1713. **D**

TECH 3902 MANAGING STUDENT ORGANIZATIONS

Technology Education and Vocational youth and adult organizations are studied in depth with relation to leadership training skills, parliamentary procedures, and the administration of school organizations. Membership and active participation in Vocational or Technology Education Collegiate Organization is required. **SO**

TECH 4001-4 INDEPENDENT STUDY IN TECHNOLOGY (TOPIC)

Specified topic in technology. Credit one to four semester hours. **D**

TECH 4011-4 SEMINAR IN TECHNOLOGY (TOPIC)

Group study of specified topics in technology for undergraduate students. Credit one to four semester hours. **D**

TECH 4113 HISTORY AND PHILOSOPHY OF VOCATIONAL AND ADULT EDUCATION

Study of history, philosophy, and legislation affecting vocational education. Emphasis includes advisory committee, student organizations, work experiences and adult education. **SO**

TECH 4123 INDUSTRIAL SUPERVISION

Principles and practice of industrial supervision and leadership are presented. Topics include the duties and responsibilities of the supervisor in an industrial setting. Specifically communication, group dynamics, employee behavior, ethics, current training techniques, health and safety, labor relations, and the supervisor's responsibility for productivity and quality are addressed. **SO**

TECH 4133 CURRICULAR ISSUES IN VOCATIONAL EDUCATION

Current curricular issues in vocational education will be studied. Topics include occupational analysis, task analysis, cooperative education and career education. **D**

TECH 4161 SOCIETY OF MANUFACTURING ENGINEERS (SME)

Student will gain membership and become actively involved in the Society of Manufacturing Engineers Student Chapter #181. **D**

TECH 4223 ELECTRICAL CIRCUIT DESIGN

The practical application of electronic theory integrated into the design, documentation, and fabrication of electronic prototypes. **Prerequisite:** Senior status in Electronics Engineering Technology. **D**

TECH 4233 GRAPHIC COMMUNICATION SYSTEMS

A study of the processes and techniques used to create, store, and retrieve information. Activities include drafting, duplicating, printing, photography, and telecommunications. **SE**

TECH 4243 COMPUTER AIDED DRAFTING II (CAD)

An advanced course in 3D computer applications. Parametric model drawings, assembly, presentation, and detail drawings are produced using a variety of software packages. **Prerequisite:** TECH 3203. **D**

TECH 4253 MACHINE DRAFTING II

Preparation of detail and assembly drawings using computer-aided drafting systems. **Prerequisite:** TECH 3263. **D**

TECH 4273 PRACTICAL PHOTOGRAPHY

A course in basic photography including camera operation, developing and printing black and white pictures, and purchasing photography equipment. **D**

TECH 4283 ADVANCED PHOTOGRAPHY

A course in advanced black and white photography techniques including high contrast printing, toning, reversals, and stabilization. The use of various films, papers, and chemicals is explored. **Prerequisite:** TECH 4273. **D**

TECH 4313 CONSTRUCTION SYSTEMS I

A study of the methods and techniques used in residential construction with emphasis on sequences of assembling the materials and components. **Prerequisite:** TECH 1313. **FO**

TECH 4364 FURNITURE AND CABINET MAKING

Advanced machine woodworking incorporating modern methods and materials used in furniture and cabinet construction. **Prerequisite:** TECH 1313. **D**

TECH 4373 ECONOMIC DECISION ANALYSIS

The course is designed to provide the student with an understanding of methods and practices for evaluating the economic impact of decisions concerning products and processes and an ability to analyze financial documents used to assess organizational performance. **Prerequisite:** MATH 1513. **S**

TECH 4413 INSTRUCTIONAL PROCEDURES IN VOCATIONAL EDUCATION

A study of the methods and techniques employed in teaching vocational education courses. **FE**

TECH 4433 QUALITY CONTROL

The study of statistical process control and quality management techniques. **Prerequisite:** MATH 3413. **F**

MFET 4443 MATERIALS HANDLING AND FACILITY PLANNING

A study of the factors influencing location, layout, and planning of industrial facilities. **Prerequisite:** TECH 3203 **SO**

TECH 4454 COMPUTER AIDED MANUFACTURING (CAM)

Applications, operations, and evaluation of computer-integrated manufacturing and design systems. **Prerequisite:** TECH 3203 and TECH 3523. **S**

TECH 4493 MANUFACTURING OPERATIONS II

Economic aspects of industry and manufactured processes. **Prerequisite:** TECH 3463. **S**

TECH 4514 MACHINE TOOL PROCESSES

Provides advanced activities related to industrial processes, industrial machines and characteristics of machine tools. Additional topics include safety operating procedures, precise measuring instruments, advanced foundry practices, and characteristics of metal and their behavior during manufacturing processes. **Prerequisite:** TECH 3523. **F**

TECH 4573 ADVANCED WELDING

Theory and laboratory application of advanced techniques in welding of industrial materials. Emphasis is placed on the design of weld for static impact and fatigue loading. **Prerequisite:** TECH 2543 **D**

TECH 4783 ADVANCED CRAFTS

Includes work in forming, shaping and finishing art metals, plastics, and other craft materials. **D**

TECH 4813 NETWORKING ELECTRONICS

A study of the concepts and terminology of networking. Topics include data communications, modems, Local Area Networks, Metropolitan Area Networks, and Wide Area Networks. This course is focused on COMP/TIA Net+ competencies. **Prerequisite:** TECH 3843. **FE**

TECH 4823 DIGITAL ELECTRONICS

A study of digital principles as they apply to computers, microprocessors, communications, and instrumentation. Such areas as binary, octal and hexadecimal number systems, codes, Boolean Algebra, Karnaugh Maps, DeMorgan's Theorem, AND, NAND, NOR gates and combinational logic will be included. **Prerequisite:** TECH 1713. **FE**

TECH 4833 MICROCOMPUTER ELECTRONICS

A thorough examination of microcomputer architecture, power supplies, input/output devices, hardware configuration, peripherals, and network connections. This course focuses on the COMP/TIA A+ 202-602 competencies. **Prerequisite:** TECH 1713. **FO**

TECH 4843 PROGRAMMABLE CONTROLLERS

The study of interfacing microcomputers with electronic devices used in industry. The microcomputer is connected to typical input and output devices. **Prerequisite:** TECH 1713. **SE**

TECH 4883 RESIDENTIAL AND COMMERCIAL WIRING

A study of the different methods of wiring residential and commercial buildings and the materials common to those industrial areas. Also, local and national codes will be studied. **Prerequisite:** TECH 1813. **D**

TECH 4900 ORIENTATION TO INDUSTRIAL INTERNSHIP

Non-credit course to be completed before internship. Students will develop: personal resume, letter of application, cover letter, and formulate positive interviewing techniques to be used in obtaining an internship. **Prerequisite:** Junior Standing. **S**

TECH 4903 MANUFACTURING ENTERPRISES

A study of the manufacturing industry that emphasizes planning and production aspects. Students will establish a manufacturing corporation then develop, produce and market a product. **SO**

TECH 4913 INDUSTRIAL INTERNSHIP

Student must complete a minimum of 160 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite:** TECH 4900. **D**

TECH 4916 INDUSTRIAL INTERNSHIP

Student must complete a minimum of 320 clock hours of employment with an approved industry, submit a formal report of experience and a supervisor's evaluation. Students with documented industrial experience may select approved elective courses in lieu of internship. **Prerequisite:** TECH 4900. **SU**

TECH 4943 ORGANIZATION AND ADMINISTRATION OF TECHNOLOGY SYSTEMS

Principles of school facility planning; requisitioning equipment, tools and supplies; techniques of administration. **FO**

TECH 4974 OCCUPATIONAL ANALYSIS AND INSTRUCTIONAL PLANNING

Analysis of trades and occupational job activities; development of course outlines and specific instructional materials for shop and laboratory courses. **SE**

TECH 4983 PRINCIPLES OF TEACHING TECHNOLOGY EDUCATION

A study of the methods and techniques employed in teaching technology education courses. **Prerequisite:** Admission to Teacher Education Program. **FE**

TECH 4993 ORGANIZATION AND MANAGEMENT OF LEARNING FACILITIES

Techniques and procedures for organizing and managing shop and laboratory facilities. Special emphasis on enhancement of learning activities, quality of instruction, and equipment and space utilization. **FO**

TECH 5001-4 INDIVIDUAL STUDY IN TECHNOLOGY (TOPIC)

Individual study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program. **D**

TECH 5011-4 SEMINAR IN TECHNOLOGY (TOPIC)

Group study of specified topic in technology for graduate students. Credit one to four semester hours. **Prerequisite:** Admission to the Graduate Program **D**

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TECH 5903 PROFESSIONAL PROBLEMS OF TECHNOLOGY EDUCATION TEACHERS

A study of problems encountered by technology education teachers and methods of solving these problems. **Prerequisite:** Admission to the Graduate Program. **D**

TECH 5923 PROJECT DEVELOPMENT IN TECHNOLOGY EDUCATION

A study of project development, design, drawing, and construction with emphasis on modern and technological trends. **Prerequisite:** Admission to the Graduate Program. **D**

TECH 5933 HISTORY AND PHILOSOPHY OF TECHNOLOGY EDUCATION

A study of philosophies and background of laboratory and craft instruction which have influenced the place of technology education in public education. **Prerequisite:** Admission to the Graduate Program. **SO**

TECH 5953 CURRICULUM CONSTRUCTION IN TECHNOLOGY EDUCATION

Plan systematically the logical steps and procedures for the development of a curriculum in technology education. **Prerequisite:** Admission to the Graduate Program. **D**

TECH 5983 EVALUATION IN TECHNOLOGY SUBJECTS

The application of available measuring instruments to technology subject matter areas. Design and criticism of instructor made tests. Development and use of evaluation techniques. **Prerequisite:** Admission to the Graduate Program. **D**

Aviation Education

TECH 3033 ADVANCED THEORY OF FLIGHT

Ground school instruction covering advanced aviation technology, aerodynamics, advanced navigation computers and plotters. Fulfills ground school needed for passing new private pilots' written exam. **D**

DEPARTMENT OF FINANCE, MANAGEMENT, AND MARKETING

Finance

FINAN 4003 INDIVIDUAL STUDY IN FINANCE (TOPIC)

Independent study of specified topics under the supervision of a finance faculty member. **Prerequisite:** Instructor, Advisor, and Chair approval. **D**

FINAN 4013 SEMINAR IN FINANCE (TOPIC)

Group study of specified topics in finance. **Prerequisite:** Instructor and Advisor approval. **D**

FINAN 4063 FINANCIAL INSTITUTIONS AND MARKETS

The study of financial markets and institutions, government regulation, planning, and analysis. **Prerequisite:** FINAN 3343. **S**

FINAN 4213 COMMERCIAL BANK MANAGEMENT

Financial management of the banking firm including theories and practices of bank asset management, banking markets and competition. **Prerequisite:** FINAN 3343. **D**

FINAN 4263 FINANCIAL MANAGEMENT

Advanced study of finance, includes case studies. **Prerequisite:** FINAN 3343. **S**

FINAN 4333 INTERNSHIP IN FINANCE

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring in Finance who have completed 80 credit hours and at least 70% of the common professional component. Further details can be obtained in the Chair's office. **Prerequisite:** Approval by the supervising faculty, Advisor, and Chair. **D**

FINAN 4513 PORTFOLIO MANAGEMENT I

First of two courses addressing the tools and processes available to manage the cash resources and meet the financial goals of the individual investor/enterprise. Students will construct, manage, track, and report results of an investment portfolio. **Prerequisite:** Instructor approval. **D**

FINAN 4523 PORTFOLIO MANAGEMENT II

A continuation course of FINAN 4513. **Prerequisite:** FINAN 4513 and Instructor approval. **D**

FINAN 4763 OPTIONS, FUTURES AND DERIVATIVE SECURITIES

A comprehensive course in the valuation and trading of all derivative securities including futures and options; to provide an understanding of the participant's differing objectives relative to profits. **Prerequisites:** FINAN 3343 and FINAN 3663. **D**

FINAN 5003 INDIVIDUAL STUDY IN FINANCE (TOPIC)

Independent study of selected topics for graduate students under the supervision of a finance faculty member. **Prerequisites:** Instructor, graduate advisor, and Associate Dean approval. **D**

FINAN 5013 SEMINAR IN FINANCE (TOPIC)

Seminar for graduate students in selected finance topics. **Prerequisites:** Instructor and graduate advisor approval. **D**

FINAN 5263 ADVANCED FINANCIAL MANAGEMENT

An advanced study of the function of finance in the business enterprise: financial planning, capital budgeting, cost of capital, return-on investment, management of cash and other current assets, capital structure, sources of financing. **Prerequisites:** FINAN 3343 or equivalent and graduate advisor approval. **F**

FINAN 5333 INTERNSHIP IN FINANCE

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisites:** Approval by the supervising faculty, graduate advisor, and Chair. **D**

Management

MNGMT 4003 INDIVIDUAL STUDY IN MANAGEMENT (TOPIC)

Independent study of selected topics under the supervision of a management faculty member. **Prerequisite:** Instructor, Advisor, and Chair approval. **D**

MNGMT 4013 SEMINAR IN MANAGEMENT (TOPIC)

Group study of special topics in management. **Prerequisite:** Instructor and Advisor approval. **D**

MNGMT 4123 MANAGERIAL ETHICS

The study of managerial ethics in a dynamic and changing environment. Stakeholders and issues management approaches are reviewed in the decision making process. Both classical and contemporary concepts are explored as an aspect of managerial ethics. Management decisions that are value-laden will be assessed in the moral context. The student will gain knowledge in managing corporate social responsibility and individual ethical leadership. **Prerequisite:** MNGMT 3233. **D**

MNGMT 4133 PRODUCTION/OPERATIONS MANAGEMENT

Production and operations problems of manufacturing and service firms; use of quantitative techniques to aid in decision making; decision areas include strategy, process and capital planning, facility layout, design of work systems, quality, just-in-time inventory systems, transportation, location planning, learning curves, linear programming and reliability. **Prerequisites:** ECONO 2463 and MNGMT 3233. **F, S**

MNGMT 4183 SALES SKILLS & MANAGEMENT

The course will focus on the terminology, principles, practices, and processes involved in sales and sales management. The course is a fun way to develop the necessary skill set to successfully sell products and learn the unique nature of sales management. Extensive case studies, group work, and oral presentations will be involved. **Prerequisites:** MNGMT 3233 and MRKTG 3143. **D**

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MNGMT 4283 TEAM MANAGEMENT

This course give participants answers to hard questions and provides proven solutions to some of management's greatest challenges: dealing with conflict productively, increasing creativity, managing diversity, evaluating and rewarding team performance, and motivating and leading people. **Prerequisite:** MNGMT 3233 D

MNGMT 4313 EVENT MANAGEMENT

This course gives learners the opportunity to conceptualize, plan, and manage an event for a charitable organization during the course period. This provides learners with hands on experience in managing a team, managing the creative process, managing the development of a plan of action, managing a budget, managing communication channels, and managing the event. The goal of this course is to learn how to create and manage a successful event while providing a service to our community. **Prerequisite:** MNGMT 3233. D

MNGMT 4323 PROJECT MANAGEMENT

This course gives learners the opportunity to conceptualize, plan, and manage an individual project. The project may be personal or business related. This provides learners with hands on experience in planning the management of a team, management of the creative process, management of the development of a plan of action, management of a budget, management of communication channels, and management of the entire project. The goal of this course is to learn how to create and manage a successful project using project management methodology. **Prerequisite:** MNGMT 3233. D

MNGMT 4333 INTERNSHIP IN MANAGEMENT

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to student majoring or minoring in Management who have complete 80 credit hours. Further details can be obtained in the Chair's office. **Prerequisites:** Approval by the supervising faculty, Advisor, and Chair. D

MNGMT 4433 ENTREPRENEURSHIP & NEW VENTURE

A comprehensive course that examines entrepreneurial attitudes and understandings. It focuses on the application of management functions to the operation of small firms: feasibility of owning a business; financial planning and credit management; production and marketing decision making; the role of e-commerce; and human resources management. It focuses on the various steps and procedures necessary for the building of a successful venture. Students are introduced to the theory and practice of entrepreneurship through readings, case studies, web assignments, and a business plan project. **Prerequisites:** FINAN 3343. F

MNGMT 4633 INTERNATIONAL MANAGEMENT

A course designed to involve the student with the theories, concepts, problems, and practices encountered in managing the multi-national business firm. **Prerequisite:** MNGMT 3233. D

MNGMT 4923 STRATEGIC MANAGEMENT AND POLICY

A comprehensive course in "business" policy formulation and strategy development, integrating all aspects of business management. The course is designed to introduce students to the theory and practice of strategic management, using a variety of readings and cases, a business plan project, and a business policy game simulation. The business simulation is interactive and thus enables students to test out their strategic decision making skills. **Prerequisites:** Senior classification, FINAN 3343 AND MNGMT 3233. F, S, SU

MNGMT 5003 INDIVIDUAL STUDY IN MANAGEMENT (TOPIC)

Independent study of selected topics for graduate students under the supervision of a management faculty member. **Prerequisites:** Instructor, graduate advisor, and Chair approval. D

MNGMT 5013 SEMINAR IN MANAGEMENT (TOPIC)

Group study of selected topics in management for graduate students. **Prerequisites:** Instructor and graduate advisor approval. D.

MNGMT 5153 MANAGERIAL ETHICS

An advanced study of managerial ethics in a dynamic and changing environment. Stakeholders and issues management approaches are reviewed in

the decision-making process. Both classical and contemporary concepts are explored as an aspect of managerial ethics. Management decisions that are value-laden will be assessed in the moral context. The student will gain knowledge in managing corporate social responsibility and individual ethical leadership. **Prerequisite:** Graduate advisor approval.

MNGMT 5163 MANAGERIAL LEADERSHIP & BUDGETING

This course examines the impact of leadership on organizational effectiveness through a study of numerous theories of leadership. A conceptual understanding of the individual, interpersonal, and institutional impact of strong moral leadership in relation to budgeting and strategic objectives is discussed. Emphasis is placed on exploring contemporary leadership issues and the development of effective leadership skills. **Prerequisite:** Graduate advisor approval.

MNGMT 5313 EVENT MANAGEMENT

This course gives learners the opportunity to conceptualize, plan, and manage an event for a charitable organization during the course period. This provides learners with hands on experience in managing a team, managing the creative process, managing the development of a plan of action, managing a budget, managing communication channels, and managing the event. The goal of this course is to learn how to create and manage a successful event while providing a service to our community. **Prerequisite:** MNGMT 3233. D

MNGMT 5323 PROJECT MANAGEMENT

This course gives learners the opportunity to conceptualize, plan, and manage an individual project. The project may be personal or business related. This provides learners with hands on experience in planning the management of a team, management of the creative process, management of the development of a plan of action, management of a budget, management of communication channels, and management of the entire project. The goal of this course is to learn how to create and manage a successful project using project management methodology. **Prerequisite:** Graduate advisor approval. D

MNGMT 5333 INTERNSHIP IN MANAGEMENT

Direct experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, graduate advisor, and Chair. D

MNGMT 5433 ADVANCED HUMAN RESOURCE MANAGEMENT

Course involves advanced study of Human Resource Management functions including job analysis, recruitment, selection, performance appraisal, training and development, compensation, benefits administration, employment laws and employee relations. Course will focus on enhancing students' ability to effectively address problems with HRM implications. **Prerequisite:** Graduate advisor approval, SU

MNGMT 5533 MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

An advanced study of contemporary theories of individual and group behavior in organizations. Emphasis will be placed on topics including motivation, development, and change management. Course will be geared towards helping students develop managerial skills. **Prerequisites:** Graduate advisor approval. F

MNGMT 5643 ADVANCED QUANTITATIVE METHODS AND OPERATIONS ANALYSIS

This course emphasizes the study of quantitative techniques which support effective decision-making. It focuses on the formulation, analysis, and interpretation of optimization models for various applications in management including marketing, accounting, finance and operations. In addition, topics may include aggregate planning, queuing theory, inventory control, scheduling and decision theory. **Prerequisite:** Graduate advisor approval. SU

MNGMT 5923 BUSINESS STRATEGY AND POLICY

A comprehensive course in business policy formulation and strategy development, integrating all aspects of business management. The course is

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designed to introduce students to the theory and practice of strategic management, using a variety of readings and cases and other pedagogical tools and techniques. **Prerequisites:** Graduate advisor approval.

Marketing

MRKTG 4003 INDIVIDUAL STUDY IN MARKETING (TOPIC)

Independent study of selected topics under the supervision of a marketing faculty member. **Prerequisite:** Instructor, Advisor, and Chair's approval. **D**

MRKTG 4013 SEMINAR IN MARKETING (TOPIC)

Group study of specified topics in marketing. **Prerequisite:** Instructor and Advisor approval. **D**

MRKTG 4123 SERVICES MARKETING

This course examines the special attributes of services that make the marketing and management of services different and more challenging than the marketing of goods. As services dominate the economies of the industrialized world, students will learn a managerial approach to competing in an ever increasing competitive and technological world. The course is lecture, discussion, and project-based. **Prerequisite:** MRKTG 3143. **D**

MRKTG 4133 SPORTS MARKETING

An in-depth study of the application of marketing principles and concepts in the sports industry. Includes sponsorships, branding, promotions, public relations, licensing, and sports consumer research and behavior from the perspective of both participants and spectators. **Prerequisite:** MRKTG 3143. **D**

MRKTG 4143 MARKETING MANAGEMENT

The course is intended as a capstone course for Marketing majors. It examines strategic alternatives available for an overall Marketing Plan. **Students are encouraged to have as many marketing courses as possible before taking this course.** The course uses case studies to illustrate and analyze real marketing decisions and may require preparation of a Marketing Plan. **Prerequisites:** MRKTG 3143 and Senior Standing **D**

MRKTG 4183 SALES SKILLS & MANAGEMENT

The course will focus on the terminology, principles, practices, and processes involved in sales and sales management. The course is a fun way to develop the necessary skill set to successfully sell products and learn the unique nature of sales management. Extensive case studies, group work, and oral presentations will be involved. **Prerequisites:** MNGMT 3233 and MRKTG 3143. **D**

MRKTG 4243 MARKETING RESEARCH

The course is designed to prepare the student to be an informed, effective user of marketing research; to acquaint the student with the importance of well-developed research questions; to address those questions using the appropriate basic research design; and, to select an adequate sample with which to answer those questions. The course provides an overview of research techniques available for collecting information to answer specific research questions. **Prerequisites:** MRKTG 3143 and ECONO 2463. **F**

MRKTG 4333 INTERNSHIP IN MARKETING

Directed experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and term report are required. Open only to students majoring or minoring in Marketing who have completed 80 credit hours. Further details can be obtained in the Chair's office. **Prerequisites:** Approval by the supervising faculty, Advisor, and Chair. **D**

MRKTG 4443 CHANNELS OF DISTRIBUTION

The focus of this course is on supply chain management from the perspectives of suppliers, intermediaries, and ultimate organizational users of goods, ideas, and services. The importance and impact of relationship marketing is examined and analyzed. Case studies and oral presentations are utilized. **Prerequisite:** MRKTG 3143. **D**

MRKTG 4543 INDUSTRIAL MARKETING

The course examines the terminology, principles, practices, and processes involved in marketing goods and services to businesses, governmental agencies, and institutions. Extensive case studies, group work, and oral presentations are involved. **Prerequisite:** MRKTG 3143. **D**

MRKTG 4643 INTERNATIONAL MARKETING

The course expands the scope of marketing principles from a domestic market to the considerably broader and increasingly important and competitive international arena. The course emphasizes such major topics as cultural differences, legal and monetary considerations, and adaptations to the domestic marketing mix. **Prerequisite:** MRKTG 3143. **D**

MRKTG 5003 INDIVIDUAL STUDY IN MARKETING (TOPIC)

Independent study of specified topics in marketing for graduate students. **Prerequisite:** Instructor, graduate advisor, and Associate Dean's approval. **D**

MRKTG 5013 SEMINAR IN MARKETING (TOPIC)

Group study of selected topics in marketing for graduate students. **Prerequisite:** Instructor and graduate advisor approval. **D**

MRKTG 5333 INTERNSHIP IN MARKETING

Direct experience working in an organization at a level requiring professional duties and responsibilities. A detailed journal and report are required. Further details can be obtained in the Associate Dean's office. **Prerequisite:** Approval by the supervising faculty, graduate advisor, and Chair. **D**

MRKTG 5623 MARKETING STRATEGY

Provides students with a broad perspective of environmental conditions (enabling and restraining variables) within which marketers must operate as they develop policies, plans, strategies, and evaluation procedures. **Prerequisites:** Approval of graduate advisor. **S**

GRADUATE FACULTY MEMBERS

- RADWAN AL-JARRAH (1991)..... Dean
College of Arts and Sciences; Professor; B.S., Baghdad University; M.S., Ph.D., Ohio State University.
- LISA APPEDDU (2004)..... Allied Health Sciences
Associate Professor; B.S., M.S., University of Kentucky; Ph.D., New Mexico State University.
- JIMENA ARACENA (2006)..... Biological Sciences
Assistant Professor; B.S., University of Kansas; M.S., University of Miami; Ph.D., University of Kansas.
- MELODY ASHENFELTER (1987)..... Accounting and Finance
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., Oklahoma State University.
- ARDEN ASPEDON (2000)..... Allied Health Sciences
Professor; B.A., M.S.Ed., Kearney State University; Ph.D., University of Nebraska.
- MARY ASPEDON (2000)..... Education
Bernhardt Professor; B.S., M.S., University of Kansas; Ph.D., University of Nebraska.
- AMY BARNETT (2005)..... Psychology
Assistant Professor; B.S., M.S., M.Ed., Southwestern Oklahoma State University; Ph.D., Oklahoma State University
- RICHARD W. BAUGHER (1976)..... Industrial and Engineering
Technology; Professor; B.A., Montclair State College (New Jersey); M.Ed., Ed.D., Texas A&M University.
- LISA BOGGS (1992)..... Biological Sciences
Associate Professor; A.A., Eastern Wyoming College; B.A., M.A., Chadron State College; Ph.D., University of Wyoming.
- DAN R. BROWN (2001)..... Social Sciences
Assistant Professor; B.A., Oklahoma State University; J.D., University of Tulsa.
- NANCY BUDDY PENNER (1985) .. Finance, Management and Marketing
Professor; B. S., M.B.A., Southwestern Oklahoma State University, Ph.D., University of North Texas.
- MELINDA C. R. BURGESS (2003)..... Psychology
Associate Professor; B.A., Colby College; M.A., Hollins College; Ph.D., Florida State University.
- STEPHEN R. BURGESS (1997)..... Psychology
Professor; B.A., Wake Forest University; M.A., Hollins College; Ph.D., Florida State University.
- BRIAN D. CAMPBELL (1997)..... Chemistry and Physics
Professor; B.S., University of Wisconsin; M.S., Ph.D., University of Iowa.
- ROBERT L. CHAMBERS (1976)..... Music
Professor; B.M.Ed., M.Ed., Southwestern Oklahoma State University; D.M.A., University of Oklahoma.
- HUNG-CHIEH CHANG (2005)..... Mathematics
Assistant Professor; B.S., National Taiwan University, M.S., Ph.D. Purdue University
- KEVIN COLLINS (2004)..... Language and Literature
Associate Professor; B.A., San Francisco State University; M.A., San Diego State University; Ph.D., University of Arkansas.
- VIVIEN CHU (2010)..... Social Sciences
Assistant Professor; B.A., M.A., Chengchi University; Ph.D., University of Missouri.
- VIKI CRAIG (1990)..... Language and Literature
Professor; B.A., Texas Wesleyan University; M.A.T., Jacksonville University; Ph.D., Florida State University.
- LESLIE CRALL (1992)..... School of Business and Technology
Associate Dean and Bernhardt Professor; B.S., M.B.A., Southwestern Oklahoma State University; J.D., University of Oklahoma.
- MICHAEL DOUGHERTY (2000)..... Mathematics
Assistant Professor and Chair; B.S., Creighton University, M.S., Ph.D., Purdue University.
- JERRY W. DUNN (2002)..... Social Sciences
Associate Professor; B.S., M.S., Oklahoma State University; Ph.D., Kansas State University.
- GERARD EAST (1997)..... Mathematics
Associate Professor; B.A., Ph.D., Tulane University.
- JARED EDWARDS (2008)..... Psychology
Assistant Professor; B.S., Southeast Missouri State University; M.A., Ph.D., Southern Illinois University Carbondale.
- JORIE EDWARDS (2009)..... Psychology
Assistant Professor; B.S., University of Illinois; M.A., Ph.D., Southern Illinois University.
- DAVID ESJORNSON (2005)..... Chemistry and Physics
Assistant Professor; B.S., University of St. Thomas; Ph.D., Purdue University.
- SYLVIA R. ESJORNSON (1995)..... Chemistry and Physics
Associate Professor; B.S., University of Scranton; Ph.D., Purdue University.
- M. ELIZABETH FERRELL (1996)....Finance, Management and Marketing
Chair and Associate Professor; B.A., College of St. Benedict; M.B.A., Ph.D., Texas Tech University.
- FREDERICK B. GATES (2002)..... Social Sciences
Associate Professor; B.B.A., Mercer University; M.A., University of North Carolina-Charlotte; Ph.D., University of Georgia.
- VICTORIA GAYDOSIK (1999)..... Language & Literature
Associate Professor; B.A., University of Wisconsin-Madison; M.A., Portland State University; Ph.D., University of Rochester.
- TERRY GOFORTH (1989)..... Chemistry and Physics
Professor; B.S., Southwestern Oklahoma State University; M.S., Ph.D., University of Oklahoma.
- PETER M. GRANT (1988)..... Biological Sciences
Bernhardt Professor; B.S., Pennsylvania State University; M.S., North Texas State University; Ph.D., Florida State University.
- VICKI J. HATTON (1988)..... Kinesiology
Chair and Associate Professor; B.S., M.Ed., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.
- JOHN K. HAYDEN (1992)..... Social Sciences
Bernhardt Professor; B.A., Georgetown University; M.A., Ph.D., University of Virginia.

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- DAVID HENDERSON (2007) Education
Assistant Professor; B.A. Harding University; M.Ed., Harding University; Ed.D., University of Montana.
- DAVID HERTZEL (1996) Social Sciences
Professor; B.A. University of Washington; M.A., Ph.D., University of Oregon.
- ANDREA HOLGADO (2008) Biology
Assistant Professor; B.S., M.S., Ph.D., National University of Cordoba, Argentina.
- PHILIP D. HOLLEY (1974) Social Sciences
Chair and Professor; B.A., David Lipscomb College; M.A., Memphis State University; Ph.D., Iowa State University.
- TIMOTHY J. HUBIN (2005) Chemistry and Physics
Associate Professor; B.S., Kansas State University; Ph.D., University of Kansas.
- JAMES P. HUNSICKER (1979) Psychology
Chair and Bernhardt Professor; B.S., Bradley University; M.S., Ph.D., University of Oklahoma.
- JASON L. JOHNSON (1996) Chemistry and Physics
Professor; B.S., University of Science and Arts of Oklahoma; Ph.D., University of Oklahoma.
- JILL T. JONES (1990) Language and Literature
Chair and Bernhardt Professor; B.A., Mississippi University for Women; M.A., Auburn University; Ph.D., University of Mississippi.
- ROBIN JONES (1999) Communication and Theatre
Chair and Associate Professor; B.S., Oklahoma State University; M.S., Southwestern Baptist Theological Seminary; Ph.D., University of Oklahoma.
- WILLIAM J. KELLEY (1994) Chemistry and Physics
Chair and Professor; B.S., Worcester Polytechnic Institute; Ph.D., Dartmouth College.
- JOEL KENDALL (1998) Communication and Theatre
Associate Professor; B.A., Oklahoma State Univrsity; M.A., Indiana University; Ph.D., University of Oklahoma.
- CHAD KINDER (1997) Parks and Recreation Management
Associate Dean and Associate Professor; B.S., M.Ed., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.
- SUNU KODUMTHARA (2010) Social Sciences
Assistant Professor; B.A., Southwestern Oklahoma State University; M.A., Oklahoma State University; Ph.D. University of Oklahoma.
- CHIH CHEN SOPHIA LEE (2002) Music
Associate Professor; B.M., Ohio University; M.A., University of Minnesota; Ph.D., University of Minnesota.
- DOUGLAS LINDER (2006) Chemistry and Physics
Assistant Professor, B.S., University of Wisconsin-River Falls; Ph.D., North Dakota State University.
- KELLEY LOGAN (1994) Language and Literature
Associate Professor; B.A., University of South Alabama; M.A., Ph.D., Florida State University.
- JOSEPH D. MANESS (1979) Biological Sciences
Associate Professor and Chair; B.A., Austin College; M.S., Stephen F. Austin State University; Ph.D., University of Oklahoma.
- DAVID MARTYN (2008) Chemistry and Physics
Assistant Professor; B.S. Southern Nazarene University; M.S., Ph.D., University of Oklahoma
- HELEN MAXSON (1989) Language and Literature
Professor; B.A., M.A., Middlebury College; M.A., Ph.D., Cornell University.
- RALPH D. MAY (1989) Social Sciences
Associate Professor, B.S.A., M.S., University of Arkansas; Ph.D., Purdue University
- MEGHAN MCGHEE (2010) Social Sciences
Assistant Professor; B.A., M.A., Ph.D., University of Oklahoma.
- ROBBIE V. McCARTY (2001) Chemistry and Physics
Assistant Professor; B.S., Mississippi University for Women; M.Ed., Southwestern Oklahoma State University; Ph.D., University of Oklahoma.
- CLIFF MCMAHON (2009) Art
Department Chair and Assistant Professor; B.A., Hendrix College; M.L.S., University of North Texas; M.A., University of Mississippi; Ph.D., University of St. Andrews (Scotland).
- THOMAS MCNAMARA (2008) Mathematics
Assistant Professor, B.S., William Patterson University, M.A., Ph.D. Saint Louis University
- CHARLES MOSELEY (2003) Accounting, Computer Science, and Entrepreneurship; Professor; B.S., St. Andrews Presbyterian College; M.S., Ph.D., University of North Texas
- STEVEN W. O'NEAL (1990) Biological Sciences
Professor; B.A., Illinois Wesleyan University; Ph.D., University of Miami.
- PATSY PARKER (2007) Accounting, Computer Science, and Entrepreneurship; Assistant Professor; B.S., M.E. Southwestern Oklahoma State University; Ed.D., University of Oklahoma
- ERIC R. PAUL (2006) Allied Health Sciences
Assistant Professor; Masters in Virology, S.V. University, Tirupati, India; Masters in Biotechnology, Assa University, Chennai, India; Ph.D., Texas Tech University.
- CYNTHIA PENA (2008) Language and Literature
Assistant Professor; B.A., Universidad Autonoma de Nuevo Leon; M.F.A., University of Texas at El Paso; Ph.D., Texas Tech. University
- ANIL PERIERA (2007) Accounting, Computer Science, and Entrepreneurship; Assistant Professor; M.S., Wright State University; Ph.D., Wright State University.
- RAY READ (2005) Education
Assistant Professor; B.S.; M.A. Western Kentucky State University; Ed.D. University of Kentucky.
- VALERIE REIMERS (1995) Language and Literature
Professor; B.A., Southwestern Oklahoma State University; M.A., University of Central Oklahoma; Ph.D., State University of New York, Stony Brook.
- ROBERTO RIVERA (2002) Mathematics
Assistant Professor; B.S., Ph.D., Georgia Institute of Technology.
- CHARLES W. ROGERS (1972) Chemistry and Physics
Professor; B.A., University of Utah; M.S., Ph.D., Oregon State University, Louisiana State University.
- KEN G. ROSE (1974) Dean
College of Professional and Graduate Studies; Professor; B.S.Ed., M.Ed., Southwestern Oklahoma State University; Ed.D., University of Oklahoma.
- L. ANN RUSSELL (1986) Education
Professor; B.A., M.Ed., University of North Texas; Ed.D., Oklahoma State University.

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- LISA SCHROEDER (2005)..... Communication and Theatre Associate Dean; Bernhardt Professor; B.S., Northwestern Oklahoma State University; Ph.D., Oklahoma State University.
- Assistant Professor; B.A., Kent State University; M.A., University of Akron; Ph.D., Kent State University.
- TAMI SCHULZ-MOSER (2007)..... Finance, Management and Marketing Assistant Professor; B.L.S., M.P.A., University of Oklahoma, Ph.D. Capelle University
- TERRY D. SEGROSS (1971)..... Music Bernhardt Professor; B.M., Oklahoma City University; M.M., Ph.D., University of North Texas.
- JAMES SILVER (2001) Language and Literature Assistant Professor; B.A., University of New Mexico; Ph.D., Tulane University.
- EITHEL M. SIMPSON (2001) Finance, Management and Marketing Assistant Professor; B.S., M.S., Ph.D., University of Oklahoma.
- BONNIE SNEED (2009) Music Associate Professor; B.M.E., Furman University, M.M., Southern Methodist University, D.M.A., Michigan State University
- BLAKE I. SONOBE (1990)..... Provost Professor; B.S., United States Air Force Academy; M.S., Texas A&M University; Ph.D., University of California, Davis.
- JAMES D. SOUTH (1995)..... Music Chair and Professor; B.M.Ed., Northwestern University; M.M., D.M.A., University of North Texas.
- JONATHAN SPARKS (2007)..... Library Director; M.L.S., George Peabody College of Vanderbilt University; Ed.S., Ph.D., Nova Southeastern University.
- ANTHONY A. STEIN (2001) Chemistry and Physics Assistant Professor; B.S., M.S., John Carroll University; Ph.D., Kent State University.
- AMBER STURGEON (2005)..... Kinesiology Assistant Professor; B.S., M.S., Ph.D., Oklahoma State University.
- KEITH M. TALLEY (2006) Music Assistant Professor; B.S., Missouri Southern State University; M.N., Kansas City Conservatory of Music, D.M.A., Michigan State University
- J. CODY TIMMONS (2007) Chemistry and Physics Assistant Professor; B.A., West Texas A&M University; Ph.D. Texas Tech University.
- LELAND TURNER (2010) Social Sciences Assistant Professor; B.A., University of Tulsa; M.A., Ph.D., Texas Tech University.
- MUATASEM UBEIDAT (2003)..... Biological Sciences Associate Professor; B.S., M.S., Yarmouk University; Ph.D., University of Wuppertal.
- TRISHA WALD (2009)..... Accounting, Computer Science, And Entrepreneurship; Assistant Professor; B.B.A., Southwestern Oklahoma State University; J.D., University of Oklahoma.
- DENNIS C. WIDEN (2001) Music Associate Professor; B.M.Ed., Drake University; M.M., Drake University; Ph.D., University of Oklahoma.
- MICHAEL W. WOLFF (1990)..... Psychology Associate Professor; B.S., University of Wisconsin; M.S., California State University; Ph.D., Florida State University.
- GARY D. WOLGAMOTT (1967)..... Allied Health Sciences

ASSOCIATE MEMBERS

- WARREN AKERS (2004)..... Mathematics
Instructor; B.S., University of Alaska; M.S., University of Colorado.
- SUSAN AL-JARRAH (1995)..... Language and Literature
Instructor; B.A., Ohio State University; M.Ed., Southwestern Oklahoma State University.
- FRED ALSBERG (1991)..... Language and Literature
Assistant Professor; B.A., Columbia College (Illinois); M.F.A., University of Arkansas.
- SUE BALL (1991)..... Biological Sciences
Instructor; B.S.Ed., M.Ed., Southwestern Oklahoma State University.
- RANDY BARNETT(2009)..... Psychology
Instructor; B.S., M.S., Southwestern Oklahoma State University.
- MADELINE BAUGHER (1989)..... Accounting, Computer Science, And Entrepreneurship; Instructor; B.S., Southwestern Oklahoma State University; M.S., Texas A&M University.
- DAVID BESSINGER (1984)..... Music
Assistant Professor; B.M.Ed., Baylor University; M.M., University of Illinois at Champaign-Urbana, University of Oklahoma.
- KELSI BOND (2009)..... Head Women's Basketball Coach
Kinesiology; Instructor; B.S. Cameron University
- STEPHANIE BOSS (2007)..... Kinesiology
Instructor; B.S., University of Central Oklahoma, M.Ed.Ad., Southwestern Oklahoma State University
- ALLEN BOYD (2007)..... Education
Instructor; B.S., Southwestern Oklahoma State University; M.Ed., University of Oklahoma.
- RUTH BOYD (2004)..... Education
Instructor; B.S., M.B.A., Southwestern Oklahoma State University.
- JOHN BRADSHAW (2004)..... Language and Literature
Assistant Professor; B.A., M.A., Northeast Louisiana University; M.A., University of Iowa.
- DEBBIE CASE (1995)..... Education
Instructor; B.S., M.Ed., University of Central Oklahoma.
- DAN COCANNOUER (2008)..... Head Football Coach
Kinesiology, Instructor; B.S., M.S., Southwestern Oklahoma State University.
- JAYME CORRELL (2006)..... Psychology
Instructor; B.S., Southwestern Oklahoma State University; M.A., University of Tulsa
- CATHERINE DEVAUGHAN (2000)..... Mathematics
Instructor; B.S., Southwestern Oklahoma State University; M.S., Colorado State University
- LAURA A. ENDICOTT (2003)..... Social Sciences
Instructor; B.A., Rockhurst College; M.A., University of Virginia.
- DANIEL K. FARRIS (2007)..... Music
Assistant Professor; B.M., Angelo State University, D.M.A., University of North Texas
- BRAD FITZGERALD (2007)..... Industrial and Engineering Technology; Instructor; B.S., M.B.A., Southwestern Oklahoma State University
- BRANDI FOWLER (2008)..... Allied Health Sciences
Instructor and Assistant Director, Health Information Management Program; B.S., Southwestern Oklahoma State University.
- MARCI GRANT (2007) Accounting, Computer Science, & Entrepreneurship
Instructor, B.S., Southwestern Oklahoma State University; M.B.A., Southwestern Oklahoma State University.
- DUSTIN HADA (2008)..... Assistant Football Coach, Kinesiology
Instructor; B.A., Mid America Nazarene University; M.A., Olivet Nazarene University
- RYAN HAGGARD (2004)..... Parks and Recreation Management
Instructor; Bachelor of Recreation, M.Ed., Southwestern Oklahoma State University.
- STEPHEN HAYNES (2008)..... Communication and Theatre
Assistant Professor; B.S., Austin Peay State University; M.F.A., Louisiana State University.
- TODD HELTON (1996)..... Kinesiology
Instructor and Assistant Football Coach; B.S., M.Ed., Southwestern Oklahoma State University.
- LINDA HERTZLE-CRUM (1997)..... Language and Literature
Instructor; B.A., Oklahoma State University, M.A., University of Arkansas; M.S. Iowa State University.
- PAUL HUMMEL (2009)..... Parks and Recreation Management
Instructor and Park Director; B.S. Southwestern Oklahoma State University.
- EUNKYUNG JEONG (2005)..... Art
Assistant Professor; B.F.A., Dong-A University of Korea; B.A., M.F.A., State University of New York, New Paltz
- KIMBERLEY KELLY (2002)..... Education
Instructor; B.S., University of Central Oklahoma; M.Ed., Southwestern Oklahoma State University.
- EDWARD KLEIN (2008)..... Education
Instructor; B.A., M.Ed., Southwestern Oklahoma State University.
- RONALD KOEHN (2000)..... Mathematics
Instructor; B.S., Oklahoma State University; M.S., Wichita State University.
- RICHARD KURTZ (2000)..... Industrial and Engineering Technology; Instructor; B.S., M.Ed., Southwestern Oklahoma State University.
- W. JOE LONDON (1994)..... Art
Instructor; B.A., M.Ed., Southwestern Oklahoma State University.
- JAMES LONG (1992)..... Finance, Management and Marketing
Instructor; B.S., University of Maryland; M.B.A., University of Utah; M.P.A., University of Oklahoma
- TAMI LOY (1999)..... Kinesiology
Instructor and Softball Coach; B.S., M.Ed., University of Central Oklahoma.

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- MARK LUMPKIN (2008)..... Men & Women's Golf Coach
Kinesiology, Instructor; B.S., M.S., Southwestern Oklahoma State University.
- KRIS MAHLOCK (2008)..... Allied Health Science
ATEP Clinical Coordinator/Instructor; B.S., Southwestern Oklahoma State University; M.S., Eastern New Mexico University.
- DEBORAH MCFARLIN (2003) Social Work
Program Director and Assistant Professor; B.A., Southwestern Oklahoma State University; M.S.W., University of Oklahoma.
- EVETTE MELIZA (2005)..... Education
Assistant Professor; B.A. Northwestern Oklahoma State University; M.A. Emporia State (Kansas) University
- KELLY S. MOOR (2009)..... Language and Literature
Assistant Professor; B.A., Ottawa University; M.A., Idaho State University; D.A., Idaho State University.
- KATHLEEN O'NEAL (2007) Mathematics
Instructor; B.S., Purdue University; M.Ed., Southwestern Oklahoma State University.
- JOHN T. PAGLIASOTTI (2006)..... Kinesiology
and Parks and Recreation Management, Instructor and Volleyball Coach, B.S., M.S., Texas A&M University—Commerce.
- TODD PARKER (2006) Art
Assistant Professor; B.F.A., Oklahoma State University; M.A., M.F.A., Northern Illinois University
- PATRICIA L. PERKINS (1985)..... Education
Instructor; B.A., M.Ed., Northwestern Oklahoma State University.
- MARION L. PRICHARD (1975)..... Allied Health Sciences
Director, Health Information Management Program; Assistant Professor; B.S., Southwestern Oklahoma State University; R.R.A., Hillcrest Medical Center; M.Ed., Southwestern Oklahoma State University.
- CHAD RAMIREZ (2001)..... Parks and Recreation Management
Instructor and Rodeo Coach; B.S., M.Ed., Southwestern Oklahoma State University.
- MEHDI RAOUFI (2003) Accounting, Computer Science,
and Entrepreneurship; Instructor; B.S., National University of Iran; M.S., Texas A&M University-Kingsville; M.S., Syracuse University; M.S., The John Hopkins University
- CHARLIE SCHAEF (2009)..... Head Men's Basketball Coach
Kinesiology; Instructor; B.S., Texas Tech; M.S., Pittsburg State University.
- SCOTT SELBY (2007)..... Kinesiology
Instructor and Baseball Coach, B.S., East Central University, M.S. Southern Nazarene University.
- JEFFREY E. SHORT, P.E. (1997)..... Industrial and Engineering
Technology; Instructor; B.S., M.Ed., Southwestern Oklahoma State University.
- JANIS SOUTH (2005)..... Music
Instructor, B.A., M.M., Southwestern Oklahoma State University.
- STEVE STRICKLER (1992)..... Communications & Theatre
Bernhardt Instructor; B.A., Southwestern Oklahoma State University; M.A., Oklahoma State University.
- KENNETH E. TILLET (1997) Social Sciences
Instructor; B.A., Southern Nazarene University; M.A., Georgetown University.
- TOBY TROTTER (2009)..... Parks and Recreation
Management Instructor and Assistant. Football Coach/Recruiting Coordinator; B.S., Oklahoma Baptist University.
- WILLIS FRANKLIN WHITE (2004)..... Industrial and Engineering
Technology; Instructor; B.Ed., M.Ed., Southwestern Oklahoma State University.
- XIAOMIAO WANG (2007)..... Art
Assistant Professor; B.A., University of Wyoming; M.F.A., University of Nebraska-Lincoln.
- JESSICA YOUNG (2006) Allied Health Sciences
ATEP Program Director/Instructor; B.A., University of Nebraska at Kearney; M.S., University of Nebraska at Omaha.

EMERITI

- PATRICIA L. ALBAUGH (1977) Social Work Program
Assistant Professor; B.A., Indiana University; M.S.W., University of
Oklahoma.
- GARABED A. ARMOUDIAN (1968) Physics
Chair and Professor; B.S., American University of Beirut; Ph.D., Louisiana
State University.
- GEORGE E. ATKINS (1967) Computer Science
Chair and Associate Professor; B.A., Hardin-Simmons University
(Texas); M.S., New Mexico State University.
- ALLEN A. BADGETT, JR. (1973) Biological Sciences
Associate Professor; A.B., M.S., California State University (Humboldt);
Ph.D., Utah State University
- GARY L. BELL (1983) Industrial and Engineering Technology
Chair and Associate Professor; B.S., M.S., Southwestern Oklahoma State
University; Ed.D., Oklahoma State University.
- HELEN B. BROWN (1964) Home Economics
Associate Professor; B.S., Southwestern Oklahoma State University; M.S.,
University of Oklahoma.
- TALBERT W. BROWN (1968) Chemistry
Professor; B.S.Ed., Southwestern Oklahoma State University; North Texas
State University; M.N.S., Ph.D., University of Oklahoma.
- W. ROBERT BROWN (1979) Vice President for
Academic Affairs; B.S., Oklahoma Panhandle State University; M.T., East
Central Oklahoma State University; Ed.D., University of Oklahoma.
- A. STUART BURCHETT (1965) Chemistry
Bernhardt Professor; B.S., Southwestern Oklahoma State University; Ph.D.,
Kansas State University.
- DIANNE L. BUSCH (1971) Kinesiology
Professor; B.S., Central State University, M.S., Ed.D., Oklahoma State
University.
- KELVIN D. CASEBEER (1967) Mathematics
Professor; B.S., M.S.; Emporia State College; Ed.D., Oklahoma State
University.
- MICHAEL D. CASSITY (1981) Music
Professor; B.A., Southwest Baptist University; M.M.T., Loyola University;
Ph.D., University of Iowa.
- CHARLES W. CHAPMAN (1962) Music
Professor; B.M.Ed., M.M.Ed., University of Oklahoma; Ph.D., University
of Texas.
- SARA J. CHAPMAN (1982) Social Sciences
Instructor; B.A., Arkansas College, M.A., Oklahoma State University.
- GERALD CHURCH (1966) Mathematics
Associate Professor; B.S., Kansas State University; M.A., Arizona State
University; Ed.D., Oklahoma State University.
- HAROLD D. COLE (1975) Biological Sciences
Associate Professor; B.S., East Central Oklahoma State University; Ph.D.,
Oklahoma State University.
- LAMAR CRALL (1967) Accounting/Finance
Assistant Professor; B.S., Oklahoma State University; B.S., Southwestern
Oklahoma State University; M.B.A., University of Arkansas; Texas
Technological College.
- ROY D. DICK (1967) Biological Sciences
Professor; B.S., M.T., Southwestern Oklahoma State University;
University of Oklahoma; Ed.D., Oklahoma State University.
- VIRGINIA DICK (1968) Home Economics
Professor; B.S., M.Ed., North Texas State University; Ed.D., Oklahoma
State University. C.H.E.
- EDWARD DANIEL DILL (1968) Associate Vice President
for Academic Affairs and Graduate School Dean; Professor; B.S.,
Southwestern Oklahoma State University; Ph.D., University of Arkansas.
- MARGARET J. DONLEY (1978) Art
Assistant Professor; B.A., Southwestern Oklahoma State University;
Florida Atlantic University; M.F.A., Instituto de Allende, Mexico.
- ROGER W. EGERTON (1963) Marketing
Professor; B.S., Bethany Nazarene College; M.B.Ed., University of
Oklahoma, Indiana University; Ed.D., Oklahoma State University.
- RAMONA JEANNE ELLINGER (1965) English
Associate Professor; B.A., Southwestern Oklahoma State University; M.A.,
University of Oklahoma; Ph.D., Oklahoma State University.
- R. PAULINE FAHLE (1968) Business Administration
Associate Professor; B.S., M.S., Oklahoma State University; J.D.,
University of Oklahoma.
- BESSIE E. FIEGEL (1966) Home Economics
Assistant Professor; B.S., University of Science & Arts of Oklahoma; M.S.,
Oklahoma State University, University of Oklahoma; C.H.E.
- MELVIN F. FIEGEL (1966) History
Professor; B.S., M.A., Oklahoma State University; M.Ed., University of
Oklahoma; Ed.D., Oklahoma State University.
- LOIS B. FISHER (1967) English
Assistant Professor; B.A., Southwestern Louisiana Institute; M.A.,
Louisiana State University, Western State (Colorado) College, University
of Oklahoma.
- HARLAN D. FRAME, JR. (1969) Chemistry
Associate Professor; B.A., University of Wichita; M.S., Ph.D., University
of Illinois.
- LOWELL V. GADBERRY (1981) Education
Professor; B.S.Ed., University of Central Arkansas; M.S.E., Henderson
State University; Ed.D., George Peabody College of Vanderbilt
University.
- LARRY E. GEURKINK (1976) Health, Physical
Education, & Recreation; Instructor; B.S., Phillips University; M.T.,
Central State University.
- ROY E. GILLASPY (1981) Technology
Associate Professor; B.A., M.A., Ed.D., Arizona State University.
- GARY H. GILLILAND (1974) School of
Behavioral Sciences and Education; Associate Dean and Professor; B.S.,
M.Ed., Texas Tech University; Ed.D., East Texas State University.
- LARRY B. GODLEY (1982) Education
Associate Professor; B.S., Northwestern Oklahoma State University; M.S.,
Ed.D., Oklahoma State University.
- THOMAS M. GRAY (1958) Biological Sciences
Professor; B.S., Kansas State College of Pittsburg; M.S., Kansas State
University; Ph.D., University of Oklahoma.

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- DUWAYNE J. GRAYBILL (1987)..... Technology Assistant Professor; B.S., Southwestern Oklahoma State University; M.S., Pittsburg State University.
- JAMES F. GRIFFIN (1970)..... Technology Professor; B.S., Fort Hays State College (Kansas); M.A., Colorado State College; Ed.D., University of Missouri.
- BOBBY D. GUNTER (1967)..... Chemistry Professor; B.S., College of the Ozarks; M.S., Vanderbilt University; Texas Christian University; Ph.D., University of Arkansas.
- DONALD I. HAMM (1951)..... Dean, School of Arts and Sciences; Professor; B.S., University of Oklahoma; M.S., Purdue University; Ph.D., University of Oklahoma.
- OPAL R. HAMPTON-CRALL (1986)..... Elementary/Secondary Programs; Instructor; B.S., University of Arts and Science of Oklahoma; M.Ed., Southwestern Oklahoma State University.
- DALE B. HANSON (1955)..... Business Director, Master of Education-Business; Professor; B.S., M.A., Emporia State College; Ed.D., University of Oklahoma.
- WAYNE F. HAYES (1968)..... Mathematics Associate Professor; B.S., Southwestern Oklahoma State University; M.S., Ed.D., Oklahoma State University.
- GEORGE E. HEJNA (1969)..... Speech Instructor; Pasadena Playhouse College of Theatre Arts; B.S., Northwestern University; M.S., University of Utah.
- FAYE M. HENSON (1975)..... Allied Health Sciences Assistant Professor; B.S., Southwestern Oklahoma State University; R.R.A., Hillcrest Medical Center; M.Ed., Southwestern Oklahoma State University.
- HARRY L. HENSON, JR. (1969)..... Biological Sciences Professor; B.S., Southeastern Louisiana College; M.Ed., M.S., Ph.D., Louisiana State University.
- DONALD V. HERTZLER (1969)..... Chemistry Professor; B.S., Northwestern Oklahoma State University; M.S., Ph.D., Oklahoma State University.
- JOE ANNA HIBLER (1965)..... President B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ed.D., University of Oklahoma
- BENNY J. HILL (1964)..... Physics Chair and Professor; B.S., Southwestern Oklahoma State University, University of New Mexico; Ph.D., Texas A&M University.
- CONSTANT HOOD (1972)..... English Assistant Professor; B.S.Ed., M.A., North Texas State University, University of Texas, University of Iowa.
- EUGENE E. HUGHES (1963)..... English Professor; B.A.Ed., Southwestern Oklahoma State University; M.A., University of Oklahoma; Ph.D., University of Missouri.
- JOELLA W. HUNDLEY (1966)..... Office Administration/Business Education; Chair and Assistant Professor; B.S., M.S., Oklahoma State University; Western State College (Colorado), Colorado State College.
- JAMES JENT (1990)..... Technology Associate Professor; B.S., University of Maryland; M.S., University of Arkansas; Ed.D., Oklahoma State University.
- LEE D. JONES (1965)..... Geography Assistant Professor; B.A., Southeastern Oklahoma State University, University of Washington; M.A., University of Oklahoma, Colorado State College.
- LES KAUER..... Management and Marketing Instructor; B.S., University of North Texas; M.S., Southern Nazarene University.
- BERNARD G. KELLER, JR. (1969)..... Pharmacy Professor; B.S., Loyola University of New Orleans; M.S., Ph.D., University of Mississippi.
- MICHAEL A. KERLEY (1971)..... Biological Sciences Chair and Professor; B.S., Stephen F. Austin State University; M.S., Ph.D., Texas A&M University.
- CLAUDE D. KEZER (1969)..... Language Arts Assistant Professor; B.F.A., M.F.A., University of Oklahoma.
- HENRY KIRKLAND (1972)..... Biological Sciences Professor; B.S., Langston University; M.Ed., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.
- JAMES D. KITCHENS (1971)..... School Service Programs; Coordinator, Residency Committee Program; Professor; B.S., Oklahoma Panhandle State University; M.Ed., Ph.D., East Texas State University.
- CHARLES KLINGMAN (1982)..... Music Assistant Professor; B.A., M.Ed., Southwestern Oklahoma State University.
- VERLIN F. KOPER (1964)..... Mathematics Associate Professor; B.S., Southwestern Oklahoma State University; A.M., University of Missouri; Ed.D., Oklahoma State University.
- ROBERT SAM LACKEY (1970)..... Language Arts Assistant Professor; B.A., M.A., Ph.D., University of Tulsa.
- CHARLOTTE N. LAM (1967)..... Elementary & Special Education; Professor; B.A., University of Oklahoma; M.T., Southeastern Oklahoma State University; Ph.D., University of Oklahoma.
- ALLEN LANE (1969)..... Chemistry and Physics Professor; B.S., M.A., Ph.D., University of Texas.
- ELSIE M. LANG (1971)..... English Assistant Professor; B.S.Ed., M.T., Southwestern Oklahoma State University; University of Oklahoma; Oklahoma State University.
- R. PARK LANG (1970)..... Art Chair and Assistant Professor; B.F.A., M.A., University of Tulsa; Ph.D., University of Oklahoma.
- LESLIE M. LEVY (1971)..... Psychology Chair and Professor; B.S., University of Houston; M.S., Ph.D., University of Oklahoma.
- JOHN LOFTIN (1981)..... Health, Physical Education, & Recreation; Instructor; B.S., West Texas State University; M.Ed., Southwestern Oklahoma State University.
- JOHN A. LUDRICK (1967)..... Education Bernhardt Professor; B.S.Ed., M.T., Southwestern Oklahoma State University; Ed.D., University of Oklahoma.
- ROBERT T. LYNN (1967)..... Biological Sciences Professor; B.A., M.A., Florida State University; Ph.D., University of Oklahoma.

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- JOHN W. MCCOY (1970) English
Assistant Professor; B.A.Ed., Oklahoma Panhandle State University,
University of Oklahoma; M.Ed., Central State University, Oklahoma State
University.
- NANCY J. MCCLAIN (1982) Interdisciplinary Studies
Director of General Education; Professor; B.S., Utah State University;
M.A., Michigan State University; Ph.D., University of Missouri-Columbia;
CFCS.
- DONALD J. MCGURK (1968) Chemistry and Physics
Chair and Professor; B.S., University of Nebraska; Ph.D., Oklahoma State
University.
- KAREN S. MCGURK (1979) Chemistry and Physics
Associate Professor; B.S., Southwestern Oklahoma State University; Ph.D.,
Oklahoma State University.
- LARRY MCKEE (1998) School of Business & Technology
Associate Dean and Associate Professor; B.S., Southwestern Oklahoma
State University; M.A., University of Oklahoma; D.P.A., Nova
Southeastern of Fort Lauderdale.
- RAYMOND L. MCKELLIPS (1959) Mathematics
Chair; Professor; B.S., Southwestern Oklahoma State University; M.S.Ed.,
M.A. Mathematics; Ed.D., Oklahoma State University.
- VERDA C. MCKELLIPS (1966) Accounting
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma
State University; Ed.D., University of Oklahoma.
- DENNIS A. MESSMER (1968) Allied Health Sciences
Professor; B.S., M.S., South Dakota State University; Ph.D., Kansas State
University.
- KEREN P. MILLER (1966) Home Economics
Associate Professor; B.S., M.T., Southwestern Oklahoma State University;
Ed.D., Oklahoma State University. C.H.E.
- DONALD L. MITCHELL (1967) Technology
Chair and Professor; B.S., M.T., Southwestern Oklahoma State University;
Ed.D., Oklahoma State University.
- ROBIN N. MONTGOMERY (1969) Social Sciences
Professor; B.A., University of Texas; B.S., M.A., Sam Houston State
University; M.A., Ph.D., University of Oklahoma.
- ROBERT O. MORRIS (1968) Mathematics
Professor; B.S., Southwestern Oklahoma State University; M.S., Oklahoma
State University; Ed.D., University of Georgia.
- GREGORY P. MOSS (1995) Dean
School of Education; Associate Professor; B.A., M.Ed., University of
Central Oklahoma; Ed.D., University of Oklahoma.
- LINVILLE MURDOCK (1967) Health, Physical
Education, & Recreation; Assistant Professor; B.S.Ed., M.T., Southwestern
Oklahoma State University.
- EDWARD NEPARKO (1963) Chemistry
Professor; B.S., M.S., University of Manitoba; Ph.D., University of
Oklahoma.
- HARRY E. NOWKA (1963) Social Sciences
Professor; B.A., Southwestern Oklahoma State University; M.A.,
Oklahoma State University, University of Arkansas; Ed.D., Oklahoma
State University.
- JERRY G. NYE (1967) Language Arts
Chair and Professor; B.A., East Central Oklahoma State University; M.A.,
Oklahoma State University; Ed.D., University of Northern Colorado.
- CHARLES W. PAGE (1970) Accounting/Finance
Chair and Professor; B.S., M.S., Oklahoma State University; Ed.D.,
University of Northern Colorado.
- CLARENCE L. PETROWSKY (1963) Social Sciences
Chair and Professor; B.A., Washburn University of Topeka; M.A., Ph.D.,
University of Oklahoma.
- VILAS PRABHU (1980) Associate Provost for Academic
and Student Affairs; Bernhardt Professor; B.S., University of Bombay;
M.S., Idaho State University; M.B.A., Southwestern Oklahoma State
University; Ph.D., University of Texas (Austin).
- JUDITH A. (WINCHESTER) RAY (1979) Elementary/Secondary
Programs; Professor; B.S., M.S., Ed.D., Oklahoma State University.
- ROBERT R. REEDER (1982) Business Administration
Professor; B.S., University of Nevada; M.B.A., Ph.D., University of
Arizona.
- BET RICE (1988) Provost
B.A., M.Ed., Southwestern Oklahoma State University; Ph.D., Kansas
State University.
- STANLEY L. ROBERTSON (1990) Chemistry and Physics
Professor; B.S., East Central State University; M.S., Ph.D., University of
Oklahoma.
- WILLIAM E. ROLISON (1966) Social Sciences
Professor; B.A.Ed., Southwestern Oklahoma State University, University
of Oklahoma; M.A., Ph.D., University of Missouri.
- JOANNA T. ROPER (1971) English
Assistant Professor; B.A., Harding College; M.Ed., Southwestern
Oklahoma State University, Oklahoma State University.
- IRENE C. ROWLETT (1965) English
Assistant Professor; B.A., Southwestern Oklahoma State University,
Colorado State University; M.A., University of Oklahoma, Oklahoma State
University.
- DOLORES J. RUSSELL (1984) School Service
Programs; Assistant Professor; B.S.Ed., M.Ed., Phillips University.
- RANDALL K. RUSSELL (1973) Business
Administration, Professor; B.A., M.A., North Texas State University;
Ph.D., Oklahoma State University.
- LEROY SCHULTZ, JR. (1969) Art
Assistant Professor; B.A.Ed., M.T., Central State University, Oklahoma
State University; University of Oklahoma; Oklahoma City University.
- CECIL R. SCOTT (1981) Psychology
Professor; B.A., Henderson State University; M.A., Ph.D., University of
Arkansas.
- JANA LOU SCOTT (1966) Elementary/Secondary
Programs; Professor; B.S.Ed., M.T., Southwestern Oklahoma State
University; Ed.D., Oklahoma State University.
- JAY P. SCHALE (1985) Music
Instructor; B.A.Ed., Northeastern Oklahoma State University; M.M.,
Southwestern Oklahoma State University.
- RONALD H. SEGAL (1967) Biological Sciences
Professor; A.B., University of California at Los Angeles; M.A., Ph.D.,
University of Kansas.
- ANNA L. SMITH (1966) Foreign Language
Associate Professor; B.A., Sam Houston State Teachers College (Texas);
M.A., Ph.D., University of Oklahoma.

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- JACK E. SMITH (1990).....School Service Programs; Assistant Professor; B.A., M.Ed., Northwestern State University (Louisiana); Ed.D., University of Arkansas
- KENNETH J. SNYDER (1972).....Music Associate Professor; B.A., Indiana State University (Pennsylvania); M.A., Western State University (Colorado); D.M.A., University of Colorado.
- WANDA STIMSON (1983).....Elementary & Special Education; Associate Professor; B.S., Kent State University; M.Ed., Ph.D., North Texas State University
- G.B. STOTTS (1968).....Industrial Education and Technology; Assistant Professor; B.S., East Central Oklahoma State University; M.S., University of Oklahoma; Kansas State College of Pittsburg; Southwestern Oklahoma State University; Oklahoma State University; North Texas State University; Southeastern Oklahoma State University.
- CLARENCE STURM (1967).....Language Arts Professor; B.A., North Texas State University; M.A., Texas Technological College; Ph.D., Oklahoma State University.
- MONA JEAN SUTER (1968).....Language Arts Assistant Professor; B.A.Ed., M.T., Southwestern Oklahoma State University; University of Oklahoma; Oklahoma State University.
- LAURA M. SWITZER (1965).....Health, Physical Education, & Recreation; Professor; B.S., Wayland Baptist College; M.Ed., Southwestern Oklahoma State University; Ed.D., University of Oklahoma.
- CHARLES TEASLEY (1998).....Kinesiology Instructor and Baseball Coach; B.S., M.Ed., Southwestern Oklahoma State University.
- HOMER F. TIMMONS (1956).....Dean, School of Health Sciences; Professor; B.S., Oklahoma State University; M.S., Ph.D., University of Oklahoma.
- GARY L. TOMPKINS (1973).....Social Sciences Associate Professor; B.S.Ed., Central Missouri State College; Ph.D., University of Missouri.
- KAREN TRAVIS (1996).....Education Chair; Associate Professor; B.S., M.Ed., Southwestern Oklahoma State University; Ed.D., Oklahoma State University.
- PAULINE TRAVIS (1983).....School Service Programs; Assistant Professor; B.S., M.Ed., Central State University; Ph.D., University of Oklahoma.
- M.C. WEBER (1964).....Chemistry Professor; B.S.Ed., Southwestern Oklahoma State University; M.S., University of New Mexico; University of California; Ed.D., University of Oklahoma.
- C. DEAN WHEELER (1982).....Computer Science Associate Professor; B.S., Southwestern Oklahoma State University; M.S.T., Cornell University; M.S., Ph.D., University of Illinois.
- W. MICHAEL WHEELER (1989).....Social Sciences Associate Professor; B.A., University of Toledo; M.A., Ph.D., University of North Carolina.
- DELENN L. WILLIAMS (1966).....Speech Assistant Professor; B.A., M.A., Midwestern University (Texas), North Texas State University; Columbia University; University of Oklahoma.
- W. DAN WILLIAMS (1969).....Mathematics Assistant Professor; B.S., Northeastern Oklahoma State University; M.A., University of Arkansas; University of Montana; University of Oklahoma
- DONALD R. WILSON (19982).....Education Professor; B.S., University of Arizona; M.A., Northern Arizona University; Ph.D., University of Arizona.
- RICHARD D. WILSON (1970).....Journalism Instructor; B.S., M.S., Oklahoma State University.
- JOHN M. WOODS (1988).....Mathematics Chair and Professor; B.S., Oklahoma State University; M.A.T., Harvard University; Ph.D., Florida State University.
- PAULETTE WOODS (1993).....Dean of Students B.S., Oklahoma State University; M.S., University of Illinois; M.S.Ed., University of Wisconsin-River Falls; Ph.D., University of Minnesota.
- E. T. WOODY, JR. (1958).....Secondary Education Professor; B.S., Southwestern Oklahoma State University; M.S., Kansas State Teachers College; University of Kansas City; Ed.D., University of Northern Colorado.
- DAVID E. WRIGHT, JR. (1973).....Social Sciences Assistant Professor; B.S., M.S., Texas A&M University, Mississippi State University.
- ERNESTINE H. WRIGHT (1968).....Health and Physical Education; Assistant Professor; B.S., M.T., Southwestern Oklahoma State University; Oklahoma State University.



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