

Cedarville University DigitalCommons@Cedarville

Undergraduate Academic Catalogs

Academic Catalogs

8-17-2020

2020-2021 Undergraduate Academic Catalog

Cedarville University

Follow this and additional works at: https://digitalcommons.cedarville.edu/academic_catalogs



Part of the Curriculum and Instruction Commons, and the Liberal Studies Commons

This Catalog is brought to you for free and open access by DigitalCommons@Cedarville, a service of the Centennial Library. It has been accepted for inclusion in Undergraduate Academic Catalogs by an authorized administrator of DigitalCommons@Cedarville. For more information, please contact digitalcommons@cedarville.edu.



8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	21				

An ACADEMIC GUIDE to your



2020-21 UNDERGRADUATE ACADEMIC CATALOG

1 2 3 4 5 6 7

ACADEMIC QUICK REFERENCE GUIDE

A a a da susta O a la a a la /	Mathematics Backslay of Caiones 205	Entropropourable Minor
Academic Schools/	Mathematics — Bachelor of Science 205	Entrepreneurship Minor 9
Departments	Mathematics Education — Integrated210	French Minor13
Art, Design, and Theatre 45	Mechanical Engineering121	Geology Minor21
School of Biblical and Theological	Middle Childhood Education106	German Minor13
	Molecular Biology 206	Graphic Design Minor5
Studies	Music162	Greek Minor6
School of Business Administration 71	Music Composition159	
Communication		Health Psychology and Public Health
School of Education102	Music Education168	Minor19
School of Engineering and Computer	Music Performance165	History Minor14
Science 111	School of Nursing173	Information Technology Management
English, Literature, and Modern	Pharmaceutical Sciences — Bachelor of	Minor
	Science184	Interactive Web Design Minor5
Languages123	Physical Education — Multi-Age 43	Intercultural Communication Minor 10
School of Allied Health35		
History and Government137	Physical Science Education211	International Business Minor 9
Interdisciplinary Studies150	Physics — Bachelor of Science 207	International Studies Minor14
Music and Worship155	Physics Education212	Latin American Studies Minor13
School of Nursing173	Political Science145	Linguistics Minor13
School of Pharmacy181	Prelaw146	Literature Minor13
	Primary (P-5) Education107	Marketing Minor9
Psychology186	Professional Writing and Information	Mathematics Minor21
Science and Mathematics192		
Social Work217	Design100	Middle Eastern Studies Minor13
	Psychology189	Mission Minor 6
Majors	Science Comprehensive Education	Motion Graphics Minor10
Accounting — Bachelor of Science76	— Integrated213	Music Minor17
Allied Health — Bachelor of Science 40	Social Studies Education — Integrated 147	Music Technology Minor17
	Social Work219	National Security Minor14
Biblical Studies	Spanish132	Neuropsychology Minor19
Biology — Bachelor of Arts195	Spanish Education — Multi-Age133	
Biology — Bachelor of Science197		Organizational Communication Minor 10
Broadcasting, Digital Media, and	Special Education — Intervention	Pastoral Ministry Minor
Journalism95	Specialist108	Philosophy and Theology Minor 6
Chemistry — Bachelor of Arts198	Sport Business Management 89	Physics Minor21
Chemistry — Bachelor of Science199	Sport Medicine — Bachelor of Science. 42	Political Science Minor14
	Studio Art 50	Preseminary Minor7
Chemistry Education	Theatre 51	Psychological Research Minor19
Christian Education 64	Visual Communication Design 52	Public Administration Minor14
Civil Engineering — Bachelor of		
Science 115	Worship	Public Policy Minor14
Communication97	Youth Ministries 67	Public Relations Minor10
Computer Engineering117		Sociology Minor14
Computer Science — Bachelor of	Minors	Spanish Minor13
Science 118	Accounting Minor90	Spanish for Healthcare Personnel
Criminal Justice140	Actuarial Science Minor214	Minor13
	Addictions and Chemical Dependency	Spanish for Professionals Minor13
Cyber Operations — Bachelor of	Minor191	Sport Management Minor9
Science 119	Arts Administration Minor54	Studio Art Minor5
Economics — Bachelor of Arts 77		
Economics — Bachelor of Science 78	Asian Studies Minor134	Teaching English to Speakers of Other
Electrical Engineering120	Bible Minor 69	Languages (TESOL) Minor13
English127	Bible Teacher Education Minor 69	Theatre Minor 5
Environmental Science	Biblical Care and Counseling Minor 69	Theatre Design Minor5
Exercise Science — Bachelor of	Biology Minor214	Theatre Performance Minor 5
Science41	Biomedical Engineering Minor122	Western European Studies Minor13
	Broadcasting and Digital Media Minor 101	Women's Ministry Minor7
Finance — Bachelor of Science	Broadcasting and Digital Micala Million 101	
Forensic Science201		
	Business Administration Minor 90	Worship Minor17
	Business Administration Minor	Worship Minor17 Writing for the Professions Minor10
Geology — Bachelor of Science 202	Business Administration Minor	Worship Minor17
Geology — Bachelor of Science 202 Global Business	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor
Geology — Bachelor of Science	Business Administration Minor	Worship Minor



2020–21 Academic Catalog

Home to 4,380 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs.

Established in 1887

Table of Contents

Introduction	
A Word From Our President	2
History	
Profile	2
Mission Statement	2
Vision Statement	
Accreditation, Authorization, and Licensure	2
Setting	
Facilities	
Computer Network	
University Student Services	(
Ministry Ópportunities	
Student Life	8
Student Life Programs	
Admissions	. 12
Undergraduate Admission Criteria	13
Undergraduate Admission Process and Deadlines	
Reservation Deposit	14
New Student Orientation	1
Undergraduate Admission Policies	1
Academic Information	. 16
Graduate and Professional Education	1
Undergraduate Study	1
Calendar and Credits	1
Classification of Students	1
Assignment to Classes	1
Class Attendance	1
Undergraduate Degree Requirements	18
Academic Programs and Majors	19
Special Academic Programs	2
Summer Terms	2
CU Study Abroad Opportunities	2
The Cove — Academic Enrichment Center	
Additional Academic Support	23
Credit by Examination	2
General Education Requirements	2
General Education Course Sequence	21
Distance Education	
Transient StudyRegistration for Courses	ZI
Grading System	
Family Educational Rights and Privacy Act	∠;
Withdrawing From the University	O

Academic Schools and Departments	34
Academic Schools and Departments	34
School of Allied Health	35
Art. Design, and Theatre	45
School of Biblical and Theological Studies	56
School of Business Administration	71
Communication	92
School of Education	102
School of Engineering and Computer Science	111
English, Literature, and Modern Languages	123
History and Government	137
Interdisciplinary Studies	150
Music and Worship	
School of Nursing	173
School of Pharmacy	181
Psvchologv	186
Science and Mathematics	192
Social Work	217
Course Descriptions	223
"	
inancial Information	310
Financial Information	
Financial InformationFinancial Aid	311 315
Financial InformationFinancial Aid	311 315
Financial InformationFinancial AidInstitutional Grants and Scholarships	311 315 315
Financial InformationFinancial AidInstitutional Grants and ScholarshipsState Grant ProgramsFederal Grants	311 315 315 316
Financial InformationFinancial AidInstitutional Grants and ScholarshipsState Grant ProgramsFederal Grants	311 315 315 316
Financial Information	311 315 315 316 317
Financial Information	311 315 315 316 317
Financial Information Financial Aid Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships Donor-Funded Scholarships Federal Direct Stafford Loans Student Employment	311 315 316 316 317 317
Financial Information Financial Aid Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships Donor-Funded Scholarships Federal Direct Stafford Loans Student Employment	311 315 316 316 317 317
Financial Information	311 315 316 316 317 317 317
Financial Information	311315315316317317317317
Financial Information	311315315316317317317317
Financial Information Financial Aid Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships Donor-Funded Scholarships Federal Direct Stafford Loans Student Employment Standards of Satisfactory Academic Progress for Recipients of Financial Aid	311315315316317317317318319
Financial Information Financial Aid Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships Donor-Funded Scholarships Federal Direct Stafford Loans Student Employment Standards of Satisfactory Academic Progress for Recipients of Financial Aid Appendix Board of Trustees	311315316316317317317318319
Financial Information. Financial Aid. Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships. Donor-Funded Scholarships. Federal Direct Stafford Loans. Student Employment. Standards of Satisfactory Academic Progress for Recipients of Financial Aid. Appendix Board of Trustees. Administration	311315316316317317317318319320320
Financial Information. Financial Aid. Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships. Donor-Funded Scholarships. Federal Direct Stafford Loans. Student Employment. Standards of Satisfactory Academic Progress for Recipients of Financial Aid. Appendix Board of Trustees. Administration Other Faculty Correspondence Doctrinal Statement	311315315316317317317318319320321321
Financial Information. Financial Aid. Institutional Grants and Scholarships State Grant Programs Federal Grants United States Military Scholarships. Donor-Funded Scholarships. Federal Direct Stafford Loans. Student Employment. Standards of Satisfactory Academic Progress for Recipients of Financial Aid. Appendix Board of Trustees. Administration Other Faculty Correspondence	311315315316317317317318319320321321

Introduction

A Word From Our President	2
History	2
Profile	2
Mission Statement	2
Vision Statement	2
Portrait Staments	2
Accreditation, Authorization, and Licensure	2
Setting	3
Facilities	3
» Alford Auditorium	3
» Apple Technology Resource Center	3
» Athletic and Recreation Center	3
» Callan Athletic Center	3
» Carnegie Center for the Visual Arts	3
» Centennial Library	4
» Center for Biblical and Theological	
Studies	4
» Chemistry Laboratory Center	4
» Chick-fil-A	4
» Civil Engineering Center	4
» Dixon Ministry Center	4
» Engineering and Science Center	4
» Engineering Projects Laboratory	4
» Founders Hall	4
» Gathany Media Center/Center for Teaching	ig
and Learning	4
» Hartman Hall	
» Health Sciences Center	
» History and Government Center	5
» Milner Business Administration	
Building	5
» Patterson Hall	
» Stevens Student Center	5
» Tyler Digital Communication Center	
» Williams Hall	5

Con	nputer Network	. 5
>>	Access	. 5
>>	Benefits	. 5
Univ	versity Student Services	. 6
>>	Career Services	. 6
>>	Counseling Services	. 6
>>	Healthcare and Medical Services	. 6
>>	Housing	. 6
>>	Getting Started Weekend	. 7
>>	Vehicles	. 7
Mini	stry Opportunities	. 7
>>	Chapel	. 7
>>	Church Relations	. 7
>>	Discipleship Ministries	. 7
>>	Global Outreach — Local	. 7
>>	Global Outreach — Domestic	. 7
>>	Global Outreach — International	. 7
>>	HeartSong Ministries	. 8
>>	Selecting a Ministry	. 8
Stuc	dent Life	. 8
>>	Spiritual Emphasis	. 8
>>	Community Covenant	. 8
>>	Cocurricular Opportunities	. 8
>>	Music Groups	. 8
>>	Intercollegiate Athletics	. 8
>>	Campus Recreation	. 9
Stuc	dent Life Programs	. 9
>>	Leadership Opportunities	. 9
>>	Organizations	. 9
	Academic Organizations	
	Social/Service Organizations	
>>	Departmental Organizations	11

Introduction A Word From Our President



A Word From Our President

Your Cedarville journey begins with a single day. One of the roughly 1,000 days you'll spend alongside Christian friends and godly, mentoring professors. Each of those days matters in a significant way ... and not just as a countdown to graduation. They are days that will shift your perspective from the person you are to the person you will become. Days that will teach you to be intentional about every

moment, every opportunity the Lord has given you.

You'll grow in your walk with Christ and pursue your academic goals while making lifelong friendships and having the time of your life. By day 1,000, you'll walk across the stage and collect your diploma. You will be prepared to step confidently into a job or grad school, fully equipped to make the most of the days to come.

When you understand the wonderful potential in each of those 1,000 days, you'll be prepared to live each day that follows boldly, intentionally, on mission for Jesus Christ. Loving God. Loving others. Demonstrating excellence in your work and integrity in your conduct. Living your life always aware that every day matters.

In Christ,

Thomas White, Ph.D.

President, Cedarville University

History

Cedarville College was established in 1887 by five godly men who envisioned a college that would provide Christian higher education. Affiliated with the Reformed Presbyterian Church, the College built its first building, Old Main (now called Founders Hall), in 1895.

The turbulence of the first 50 years of the 20th century led to hard times for the College. By the end of World War II, the Board of Trustees realized that enrollment could not support expenses, but, as God would ordain it, the Baptist Bible Institute of Cleveland, Ohio, was seeking to expand. That institution's Board of Trustees became convinced Cedarville was the place God had

By mutual agreement of both trustee boards, ownership of the College transferred in 1953, and Cedarville became a Baptist college of arts and sciences. Dr. James T. Jeremiah was called as president.

By 1959, Cedarville's enrollment had grown to 255. Six years later, the student body nearly tripled to 763. By the end of Jeremiah's 25-year tenure as president in 1978, enrollment had grown to more than 1,200 students. That same year, Dr. Paul Dixon was called to lead Cedarville.

In 2002, the Board of Trustees unanimously voted to change from Cedarville College to Cedarville University. This move better communicated Cedarville's expanded academic offerings, graduate studies, institutional organization, and increased national and international presence.

By the end of Dixon's 25-year tenure as president in 2003, the student body had grown to more than 3,000 students. Under his leadership, Cedarville added nursing and engineering majors and constructed the Dixon Ministry Center and the Stevens Student Center.

In 2003, Dr. Bill Brown became the next president of Cedarville University. Under Brown's leadership, Cedarville built the Center for Biblical and Theological Studies and Health Sciences Center and launched four new graduate programs.

In 2013, Dr. Thomas White became the 10th president of Cedarville University. Under his leadership, the University

embarked on an extensive renovation of the Jeremiah Chapel, built new science laboratories, established two additional graduate programs, founded the Center for Biblical Apologetics and Public Christianity, and launched a 10-year master-planning process.

Profile

Home to 4,193 Christian students, Cedarville University is an accredited, Christ-centered, Baptist university of arts, sciences, professional, and graduate programs located in southwest Ohio. Since its founding in 1887, Cedarville has maintained its commitment to biblical truth and academic excellence to equip students for academic success, professional leadership, and spiritual influence. This intentional focus has earned Cedarville a national reputation as a leader in liberal arts, health sciences, and professional programs.

Cedarville's undergraduate curriculum is built upon a liberal arts core including biblical education, communications, global studies, humanities, physical education, science and mathematics, and the social sciences. From this foundation, the University's 73 undergraduate degree programs provide concentrated study leading to one of eight baccalaureate degrees.

Graduate programs are a growing segment of Cedarville's educational array. Now offering five master's and doctoral degrees and five certificate programs in the areas of business, nursing, education, ministry, and pharmacy, these programs — five available fully online — build on the University's undergraduate reputation, but serve the unique needs of adult students.

Mission Statement

Cedarville University transforms lives through excellent education and intentional discipleship in submission to biblical authority.

Vision Statement

For the Word of God and the Testimony of Jesus Christ.

Portrait Staments

Glorify God

The Cedarville graduate exemplifies devotion to the triune God, Christlike character, and faithfulness to the teachings of the Scriptures.

Think Broadly and Deeply

The Cedarville graduate evaluates ideas, practices, and theories across disciplines within the framework of God's revelation.

Communicate Effectively

The Cedarville graduate listens well, and produces and delivers clear, compelling, accurate, and truthful messages in a relevant, respectful manner.

Develop Academically and Professionally

The Cedarville graduate demonstrates competence and integrity in academic and professional endeavors.

Engage for Christ

The Cedarville graduate lives to further the mission of Christ in the world as an active influence in spiritual, moral, professional, and social spheres.

Accreditation, Authorization, and Licensure

Cedarville University is a four-year and graduate degreegranting institution chartered by the state of Ohio and authorized by the Ohio Department of Higher Education.

The University and its degree program offerings are accredited by the Higher Learning Commission (hlcommission.org). This recognition signifies that the University is regionally accredited. In addition, several programs maintain specialized accreditation. The Bachelor of Arts degree programs in educator preparation is accredited by the National Council for the Accreditation of Teacher Education/Council for the Accreditation of Educator Preparation

Introduction Setting

(NCATE/CAEP), by the Ohio Department of Higher Education, and certified by the Association of Christian Schools International (ACSI) for the education of teachers. Teacher candidates receive their licenses from the Ohio Department of Education. The Bachelor of Science in Nursing and Master of Science in Nursing degrees are accredited by the Commission on Collegiate Nursing Education (CCNE). The Bachelor of Science degrees in mechanical, electrical, computer, and civil engineering are each accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET). The Bachelor of Science Computer Science degree is accredited by the Computing Accreditation Commission of ABET and the Computer Science program with a cyber operations specialization has ABET cybersecurity accreditation. The Bachelor of Science in Social Work program is accredited by the Council on Social Work Education (CSWE). The Bachelor of Arts in Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The Bachelor of Arts and the Bachelor of Science in business related fields, and the Master of Business Administration degrees are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). The Bachelor of Arts in Music program, the Bachelor of Music programs, and the Bachelor of Music Education program are accredited by the National Association of Schools of Music (NASM). The Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education (ACPE). Information about the aforementioned accrediting agencies and links to their respective accreditation requirements are available at cedarville.edu/accreditation.

The University holds membership in the National Association of Independent Colleges and Universities (NAICU). For a listing of additional memberships, visit **cedarville.edu/memberships**.

Setting

Cedarville University is located on 400 acres at the north edge of the village of Cedarville, Ohio, a quiet town with a population of approximately 4,000. Founded in 1816 at the junction of two state routes, the village and its surrounding area have long provided a wholesome environment for learning.

This pleasant setting continues today. Downtown Cedarville features the historic Cedarville Opera House, two banks, post office, pharmacy, convenience store/gas station, restaurants, hardware store, hair salon, barber, and coffee shops where many students like to relax and socialize with friends. Massie's Creek, an adjacent park, and the bike path offer hours of recreation, adventure, and reflection within a mile of the University.

Rolling hills and prospering farms border the village and University. This beautiful area, which extends westward to John Bryan State Park, has been recognized as one of the most scenic in the Midwest and serves as a popular spot for students.

Cedarville University is conveniently situated within easy access to shopping areas in the small cities of Xenia and Springfield. The University lies in the center of a triangle formed by three interstate highways, I-70, I-75, and I-71, and thus enjoys quick access to Columbus, Dayton, and Cincinnati. These metropolitan areas offer fine dining, professional sporting events, concerts, and employment opportunities.

Facilities

Alford Auditorium

Initially built as a church in 1853 and renovated by the University in 1903, Alford Auditorium has served the University in several capacities, including a gymnasium, chapel, and theatre. The building with its newer annex now functions as classrooms and faculty offices.

Apple Technology Resource Center

The Apple Technology Resource Center was renovated in 1998 to further strengthen Cedarville's position as a national leader in instructional technology. The 24,000-square-foot facility houses six general classrooms, a 40-station general-use computer laboratory, a videoconferencing center, a computerized testing room, student lounges, and 17 offices. New electronic media facilities were added in 2004. These include four studios: a recording studio outfitted with a Mackie D8B and 2496 hard disc recording system, a television studio/control room equipped with three digital video cameras and "green screen" wall, a broadcast studio, and an audio computer studio. Apple also houses the Department of Social Work faculty offices.

Athletic and Recreation Center

This complex features the Callan Athletic Center, Doden Field House, Fitness Center, and University Medical Services (UMS). It provides space for the Departments of Athletics, Campus Recreation, School of Allied Health, and UMS.

Callan Athletic Center

Constructed in 1981, the Callan Athletic Center includes the Stranahan Gymnasium, which seats nearly 3,000 fans and serves as the competition venue for basketball and volleyball programs, along with providing space for a variety of athletic team practices, intramural sports, and many other recreational activities. The facility features three full-length basketball courts, five volleyball courts, 10 badminton courts, nine team and general-use locker rooms, an athletics laundry facility, and a state-of-the-art athletics training room complex. The renovated second floor, opened in January 2003, includes six classrooms, an exercise science lab, and offices for coaches and faculty in the School of Allied Health. Doden Field House

The Doden Field House is the largest section of the Recreation Center, added in 2003. This 60,000-square-foot area can host four basketball, volleyball, and tennis courts or two indoor soccer courts. It also includes three batting cages, a 200-meter track, and bleachers seating 1,000 spectators. The track is used for individual walking/jogging as well as for high school and college indoor track competitions. Cedarville's annual commencement is held in the Field House, accomodating nearly 7,000 attendees. *Fitness Center*

Also added in 2003, the Fitness Center is an open, inviting area featuring a 40-foot indoor climbing wall, capturing the attention of all who enter. This section of the Recreation Center also includes three racquetball courts, a 2,200-square-foot exercise studio, a varsity athletics free weight room, a 2,000-square-foot general use free weight room, 28 Nautilus strength training machines, 50 cardio machines, and a recreation equipment room. University Medical Services

Another section added to the Athletic and Recreation Center in 2003 is University Medical Services, which provides ambulatory healthcare from a staff of physicians and nurses. University Medical Services offers many healthcare services such as preventative care, illness care, wellness education, over-the-counter medications, allergy injection management, laboratory services, prescription medications, rehabilitation treatment, and an insurance claim service. See page 6 for more information.

Carnegie Center for the Visual Arts

Located two blocks south of the main campus, this stately structure, donated by Andrew Carnegie, went through a major renovation in 2012. The building houses the administrative offices for the Department of Art, Design, and Theatre, upper-level studios for art students, and classrooms for drawing, painting, and two-dimensional design.

Centennial Library

The construction of the 66,000-square-foot, two-story library served as the cornerstone of the University's 1987 centennial celebration. This structure brings together the latest information technologies for higher learning and provides general study and specialized seating for more than 800 students. Designed to house a collection of up to 250,000 volumes, the library also contains the MediaPLEX, the Curriculum Materials Center, computer and media-supported classrooms, a variety of individual and group study facilities, the University archives, and the Campus Newsroom.

The library collection consists of approximately 275,000 print, media, and digital items, including almost 1,000 journal subscriptions in print form, more than 9,000 e-journal subscriptions, and more than 53,000 e-books. As a member of OhioLINK, a cooperative of 90 institutional libraries, students and faculty have access to more than 12,000,000 unique titles through a centralized computer catalog with on-campus delivery. In addition, through OCLC, the Online Computer Library Center, the library has access to more than 236,000,000 books and other library materials in more than 72,000 libraries in all 50 states and 170 foreign countries.

Center for Biblical and Theological Studies

Situated on Cedar Lake, this innovative 59,000-square-foot structure supports Cedarville's Bible minor — which grounds students in God's Word — as well as the Bible programs that prepare them for vocational ministry. The center includes a technology-equipped homiletics lab, two lecture halls, 14 classrooms, accessible faculty offices, email stations, a multimedia lab, and a 36-station computer lab, along with a lounge, gallery, and vending areas. The building also houses the University's academic enrichment center, which provides courses, programs, services, and events to cultivate academic success. It includes tutoring, first-year programming, disability services, workshops, consultations, and exploratory support. In 2019, the Warren and Betty Wiersbe Library and Reading Room was added, after the couple generously donated Dr. Wiersbe's vast collection of books and reference materials.

Chemistry Laboratory Center

Chemistry and biology students conduct experiments and tests in a state-of-the-art Chemistry Laboratory Center. The \$5 million expansion project was completed in time for the start of the 2015–16 academic year. The facility, located along the southwest edge of campus, has seven new laboratories: three for freshman chemistry, and one each for advanced chemistry, organic chemistry, instrumentation, and research. The spacious new labs provide a safe and enjoyable environment for the students. The new research lab gives students a place to learn important laboratory techniques and supports the faculty in their research efforts. The chemistry laboratory center enhances the educational experience for the students as they prepare for medical or graduate school and chemistry-related vocations.

Chick-fil-A

This 15,000-square-foot eatery is adjacent to the Centennial Library and is located along Cedar Lake. With seats for 300, the facility offers Chick-fil-A and Tossed: Salads and Pizza dining options. It opened August 2020.

Civil Engineering Center

This facility opened August 2020 to house the civil engineering major. With two large classrooms, four laboratories, and six faculty offices, it is located near the Engineering Projects Laboratory.

Dixon Ministry Center

The 120,000-square-foot Dixon Ministry Center, completed in 1996, includes the Jeremiah Chapel, the Christian Ministries Division, the Department of Music and Worship, and seven classrooms.

The 3,720-seat chapel is the site of daily chapel services that bring the University family together for worship and instruction from God's Word.

The Department of Music and Worship facilities include 15 instructional studios, 20 practice rooms, four rehearsal halls, a piano pedagogy suite, a piano laboratory, a computer laboratory, three specialized classrooms, a large conference room, and a beautiful 250-seat recital hall.

Engineering and Science Center

This facility demonstrates the University's firm commitment to providing a quality Christian education in the sciences. This 95,000-square-foot, three-story academic center is home to the department of science and mathematics and the School of Engineering and Computer Science. It contains 10 classrooms, including a 200-seat auditorium, 10 independent study laboratories, five conference rooms, 36 discipline-specific laboratories, 50 offices, and several lounges. The building also contains a 40-station general-use computer laboratory and features video and data connectivity in all offices, classrooms, and laboratories. Special features include three computer-equipped classrooms, a 16-inch reflecting telescope, an audio visual learning laboratory, an engine test cell, five electronic circuit laboratories, and a wind tunnel with an 18-inch test chamber.

Engineering Projects Laboratory

The 8,800-square-foot Engineering Projects Laboratory was opened in 2005 and houses a projects lab complete with a machine shop, welding area, ventilated paint and fiberglass booth, wood shop, and bays for up to six projects. The single-story steel building also features a multipurpose conference room and six faculty offices.

Founders Hall

This historic facility was renamed Founders Hall on Centennial Charter Day, January 26, 1987. Today this stately structure serves as Cedarville's administrative and academic headquarters with offices for the President, and Vice president for Academics, the Vice President for Business and Chief Financial Officer, and the Dean of Undergraduate studies and the Dean for Graduate Studies.

Gathany Media Center/Center for Teaching and Learning

This building is home to both The Graduate School administrative offices and the Center for Teaching and Learning. Staff members from the Center for Teaching and Learning work with faculty members to create effective instructional solutions. Administrative staff for Cedarville's Graduate School support online and residential graduate students from their application for admission through their enrollment and graduation, providing a wide range of support and advising services.

Hartman Hall

Hartman Hall is home to our Human Resources offices and houses a conference room. A full-scale restoration of this historic home was completed in 2012.

Health Sciences Center

The Health Sciences Center is home to the Schools of Nursing and Pharmacy as well as the Center for Bioethics. This facility houses state-of-the-art classrooms and research and clinical laboratories, including one of the best simulation centers in the

Introduction Computer Network

country. It also includes numerous student collaboration rooms and comfortable lounges for group interaction and individual study and relaxation.

History and Government Center

Following its renovation in 2001, the History and Government Center is home to our history and government faculty offices. Cedarville's general counsel has an office in this building.

Milner Business Administration Building

Opened in 1987 and featuring the latest in instructional technology, the George Milner Business Administration Building contains nine general classrooms, two computer classrooms, the trading center, the center for business innovation, and faculty offices for the School of Business Administration.

Patterson Hall

Formerly the home of the University's medical clinic, Patterson Hall now provides faculty office space for the Department of Communication.

Stevens Student Center

As the hub of student activity at Cedarville, the SSC houses food services, the bookstore, event rooms, classrooms, computer labs, the post office, a game room, the student radio station, theatre, and student government. The 150,000-square-foot building is also the home of Admissions, Financial Aid, Office of the Registrar, and the Student Life Division.

Dining options on campus include the dining hall's all-you-caneat meals or casual meals at Stinger's, Cedarville's snack shop. The President's Dining Room, used for special occasions, offers formal dining in an elegant setting. Many students and guests also enjoy Rinnova, the campus coffee shop.

The bookstore endeavors to provide students with the materials necessary to enjoy a successful college experience, including dorm supplies, Cedarville apparel, books, and more.

The theatre complex includes an impressive 400-seat theatre with modern technology and staging, as well as a movement studio, makeup suite, scene design lab, scene shop, offices, and dressing rooms.

Tyler Digital Communication Center

This facility, renovated in 2002, includes a graphic design lab, writing center, multimedia lab, three computer classrooms, seven general classrooms, and faculty offices. Offices for Alumni Relations, Marketing and Communications, Advancement, and Information Technology are also located in this building. Tyler also holds the IT Service Center offering computer and mobile device assistance.

Williams Hall

Providing classrooms and offices, Williams Hall serves as the home of the academic Departments of Education, Psychology, and English, Literature, and Modern Languages.

Computer Network

Cedarville University is known nationally as a leader in campus computer networking and instructional technology, providing networked computers in computer-ringed classrooms, specialized laboratories, and public-access computer labs. One of the major advantages to the network, called CedarNet, is that students have access to more than 70 commercial software packages from any University-owned computer. Many of these programs are also available from student-owned computers by accessing Cedarville's virtual computer lab.

CedarNet is a winner of the CAUSE Award for Excellence in Campus Networking. This prestigious national award recognizes

colleges and universities that exemplify best practices in campus networking in higher education. CedarNet's connection to the Internet is robust, supported by dual high-speed fiber links that ensure high availability.

Access

Wireless network access is provided in classroom areas, coed lounges, residence hall rooms, and in large gathering areas such as the Centennial Library, the Stevens Student Center, and the Dixon Ministry Center. Wireless access is also available outdoors on campus lawns and athletic fields.

To enable students to take further advantage of the network, public laboratories are conveniently open to on- and off-campus students with a total of 200 stations available.

Benefits

Students using the network can:

- Communicate electronically on campus with professors, friends, and classmates, or with friends and family around the world
- Manage, display, and analyze data using spreadsheet, statistical, and database software.
- Access online course materials using Cedarville's learning management system.
- Search library holdings for personal and class research projects, papers, or presentations, even when the library is closed.
- Access their course schedule, college transcript, or business office account.
- Plan their degree programs and register for classes.
- Learn to use the network through online tutorials and training seminars for commonly used software applications.



Introduction University Student Services

University Student Services

The University recognizes the importance of providing our students with a high level of support and provides a full range of student services including career services, counseling, and a strong orientation program for new students.

Career Services

Career Services seeks to facilitate career exploration and the development of lifelong career navigational skills, while continually networking to enhance opportunities for students.

Career Services is staffed by professionals certified in the areas of résumé writing and career coaching. Students may take advantage of workshops or individual appointments geared to assist them with résumé writing, interviewing, networking, gaining admission to graduate school, and understanding the job search process. Career assessment surveys and individual coaching sessions are also available to help students determine majors and occupations. The Career Services homepage (cedarville. edu/career) links to the very latest in network-based job search programs (such as LinkedIn), guides to major employers, and directories for graduate schools.

Six career fairs are held each year to provide opportunities for prospective employers to meet with students. Potential employers also visit the University for individual on-campus recruiting days and interview sessions.

Students may register for free with *Jobs4Jackets*, a job and internship database that enables students and employers to connect for employment needs. Students may browse job openings and upload a résumé for employer and staff review. This is a service they may continue using as alumni.

Students may also sign up for JacketConnect, an online mentorship program that connects current students to alumni in their field.

Affiliations

National Association of Colleges and Employers (NACE) Midwest Association of Colleges and Employers (MWACE) National Résumé Writers Association (NRWA) Professional Association of Resume Writers and Career Coaches (PARW/CC)

Highlights

Cedarville University Career Services is ranked as one of the top career services offices in the Ruffalo Noel-Levitz student satisfaction survey among all participating public and private institutions

Employment statistics for Cedarville graduates consistently rank above the national averages provided by the National Association of Colleges and Employers (NACE).

Counseling Services

Counseling Services provides a place where students can find understanding, encouragement, and counsel as they deal with personal, interpersonal, and spiritual concerns.

Staffed by licensed professional counselors, this service offers individual 50-minute counseling sessions that work around each student's class schedule. This service, for which students pay no additional charge, is offered by appointment. In the case of a crisis, the service is provided as needed. Off-campus referrals are available upon request.

Location: SSC 163 **Phone**: 937-766-7855

Web: cedarville.edu/counseling Email: counseling@cedarville.edu

Healthcare and Medical Services

Student healthcare is provided by University Medical Services (UMS), an ambulatory student healthcare facility that provides healthcare services similar to a family practice office. UMS is located adjacent to the Doden Field House and is staffed with nurse practitioners and a physician so that healthcare services are available to students right on campus. The services of UMS include M.D. and nurse practitioner visits, nursing appointments, physicals for athletics and ministry participation, academic physicals, laboratory services, allergy injection services, immunizations, and travel immunization services. UMS also works closely with area hospitals and specialists to coordinate referrals for students to specialty physicians and for other medical services such as radiology testing.

Phone: 937-766-7862 Fax: 937-766-7865 Web: cedarville.edu/ums Email: ums@cedarville.edu

Another healthcare service available to students on campus is Cedarville University Emergency Medical Service (CUEMS), a volunteer EMS ambulance ministry manned by students who are nationally and state certified EMTs. CUEMS responds primarily to emergencies on campus. Also, CUEMS provides mutual aid to the Cedarville Township and the surrounding community when needed. The students who are involved in the ministry volunteer their medical expertise to the Cedarville University family and strive to demonstrate Christ's love and compassion to their fellow students in time of need. To learn more about the ministry of CUEMS, visit the following website: cedarville.edu/ums. For information about how you can become an EMT, visit cedarville.edu/EMSEducation.

Housing

Residence hall living is an integral part of the educational process at Cedarville. All single students under 23 years of age, except those commuting from the home of their parents or legal guardian, are required to live in University residence halls. Students 25 years of age and older must secure off-campus housing.

Approximately 80 percent of the student body lives on campus in University housing. Men and women are housed in separate residence halls. All offer convenient laundry and lounge areas and house two students per room. Each room is fully furnished. The residence halls have free wireless access.

Students select their room and roommate through an online housing system. Continuing students who are registered for the following semester are given priority. New students who have submitted their reservation deposit are granted access to the system after continuing students have made their selections. Complete information concerning residence hall staffing, furnishings, and policies is found on the residence life website (cedarville.edu/student-life/residence-life).

Married students may find housing at Cedar Park, a Universityowned apartment complex, or in one of many area apartments.

Graduate and upperclass students can apply in groups of six to live in University-owned, townhouse-style apartments. These three-bedroom, two-bathroom apartments are furnished and include a washer/dryer and kitchen. In addition, wireless access continues to be provided.

Introduction Ministry Opportunities



Getting Started Weekend

"Getting Started" takes place at the start of each semester, when new students are provided with opportunities designed to facilitate adjustments to their new surroundings. The program includes orientation for parents. Special interest sessions, question and answer times, small group meetings, and social activities provide opportunities to adjust to a new environment. Placement testing may be required during orientation.

Vehicles

There are no restrictions on vehicle registration. Please understand that parking is limited and upperclassmen are given priority. All vehicles parked on campus must be registered at **cedarville.edu/campussafety**.

Ministry Opportunities

Cedarville University is dedicated to ministry involvement as a vital part of each student's education and spiritual growth. Students are challenged to consider how their academic disciplines, interests, and abilities can be used to build relationships to share the Gospel with the people God intentionally places in their lives. Directed by the Associate Vice President for Christian Ministries and coordinated through 14 full-time staff members, Christian Ministries provides training and assistance to the hundreds of students who volunteer each year.

Chapel

It has been said that the heartbeat of Cedarville University is the daily chapel service held in the James T. Jeremiah Chapel. At 10 a.m. each morning, the auditorium comes alive as the University gathers to worship, pray, hear from God's Word, and contemplate relevant issues facing the body of Christ today. Chapel is a place for students to grow and connect as speakers inspire and challenge the University family. Many students participate in one of the many chapel bands that lead worship each day, or work in a production support role. Alumni often mention chapel as one of the things they miss most after graduation. You can watch chapel live weekdays by going to **cedarville.edu/chapellive**.

Church Relations

Church Relations seeks to engage Christ-centered churches and their leadership in order to build and strengthen strategic and reciprocal relationships, connect churches to the resources of Cedarville University, and promote student involvement in local churches. This engagement occurs through a number of activities and efforts.

- Pastor Appreciations Notes Students, faculty, and staff are encouraged to express appreciation for their pastors. Personal notes and postcards are used in this annual effort.
- Annual Conferences Church Relations sponsors or

- supports Cedarville conferences designed to equip and strengthen local churches, such as the annual Pastors Conference, Worship 4:24, and other events, addressing a variety of issues facing the church.
- Regional and National Conferences Church Relations represents the University at a number of regional and national conferences.
- Pastor Recommendation and Church Match Scholarships are a way Cedarville partners with churches in support of young people who attend Cedarville.

Discipleship Ministries

Discipleship Ministries seeks to create opportunities that foster and flourish 2 Timothy 2:2 relationships, where as a result of walking together, students grow in their relationship with Christ as well as their ability to train others to do the same.

Nearly one-third of the student body is involved in upperclassman-led Bible studies. These groups meet weekly throughout the school year and create an atmosphere for spiritual growth through accountability, prayer, open discussion, and loving community. Every fall, students can sign up to join a group.

Fit To Be Tied is another strategic ministry specifically targeting seriously dating or engaged student-couples. Couples meet regularly with their mentor couple throughout the school year as well as attending five relevant seminars focused on building Christhonoring marriages. **cedarville.edu/discipleship**

Tied and True exists to cultivate marriages that adorn the Gospel of Jesus Christ. This ministry is a complement to our Fit to be Tied program and seeks to provide guidance and mentoring to our newly married student-couples. The program has two major components: specific small groups for both husbands and wives as well as group panel discussions on topics vital to building strong, biblical marriages that point to Christ.

Global Outreach — Local

Students reach out to their neighbors through local churches, community outreach teams, using their resources, talents, and time to live out the Gospel while serving others. Cedarville University is located in a region known as the Miami Valley. The cities of Columbus, Dayton, and Cincinnati are close by, as well as many smaller communities. Dozens of student-led teams serve faithfully in these local communities and churches each week.

- Local Church Teams students serve alongside church members in many areas such as worship/music, youth ministries, children's ministries, Awana, nursery, etc.
- Local Outreach Teams students serve in various agencies and faith-based organizations, including crisis pregnancy/ abstinence, evangelism/urban, youth and children, jail/ detention, refugee, and special needs ministries.

Global Outreach — Domestic

Students have opportunity to join a weeklong team, often over a break, to serve along with ministries in various cities, such as Memphis, New York, Dearborn, and Chicago, seeking to share the Gospel in the inner city, refugee outreach, and practical children's programs.

Global Outreach — International

Proclaiming the Gospel to the nations while experiencing missions firsthand, our students reach out around the world. Each year during breaks and in the summer, hundreds of students serve assisting missionaries while also discerning God's direction in their lives. Participants raise their own financial and prayer support prior to leaving and report on their ministries upon returning.

Since 1971, over 7,200 participants have served in 91 countries.

Introduction Student Life

Each year opportunities for service include medical, computer, evangelism, engineering, sports, orphan care, teaching English as a second language, music, and physical labor. Every student is encouraged to minister cross-culturally before graduation. Contact Global Outreach for details.

HeartSong Ministries

HeartSong Ministries communicates the livable reality of the Gospel as seen through genuine worship. Whether at a large conference or small youth event, HeartSong intentionally balances music, Scripture, and life stories to engage audiences in a way that is distinctively Cedarville. Teams rehearse approximately six hours a week and travel a minimum of five weekends each semester and 10 weeks during the summer. Auditions are held each year during the first week of school. HeartSong is excited to reach out to thousands of young people across the country and introduce them to the incredible opportunities available at Cedarville University.

Selecting a Ministry

- Consider your interests. Select a ministry that allows you to do something you enjoy.
- Consider your vocational goals. There are many ministries
 that are directly related to the majors offered at Cedarville
 University. A ministry related to your chosen field can help you
 decide if you have made the right choice and in some cases
 may lead to an internship, reference, or employment.
- Talk with upperclassmen. Find someone who has experience in the ministry you are considering.
- Watch your email for ministry opportunities that will be announced.
- Talk with the Christian Ministries staff in the Dixon Ministry Center. They are available to answer questions you might have.

cedarville.edu/serve

Student Life

Cedarville seeks to maintain a culture that reflects the values of the Kingdom of Heaven and the spirit of Jesus Christ. Student Life Programs are designed to support this kind of environment and to contribute to each student's growth intellectually, spiritually, socially, and physically. In each of these areas, the University recognizes the relevancy and authority of the Bible and accepts it as the final authority for faith and practice. Core values that shape the culture include love for God, love for others, excellence in effort, and integrity in conduct.

Spiritual Emphasis

The University desires that each student grow in their relationship with Christ. Consequently, students are urged to regularly practice spiritual disciplines including worship, prayer, and Bible study. Daily chapel services provide spiritual encouragement and enrichment. We ask students to maintain the discipline of weekly corporate worship at a local church.

Spiritual growth is further encouraged through student prayer groups that meet regularly to pray for special needs.

Community Covenant

Cedarville recognizes and values the Bible as an authoritative guide for how Christians should live. It also recognizes that God uses community and relationships with other believers to encourage growth. The Cedarville family believes that behavior, as individuals and as a community, should bring honor to God and reflect obedience to His Word. At the beginning of each year, all students are asked to affirm their desire to abide by the following Community Covenant:

We are a community of believers accountable to one another, called to reflect the character of Jesus Christ and to be obedient to His Word. We will be faithful in our support for the local church and in our practice of the spiritual disciplines. We will practice biblical principles of encouragement, exhortation, and reconciliation. We commit ourselves to integrity, kindness, purity, and self-control. We commit ourselves to continual growth in scholarship, leadership, and service.

Therefore, as a member of the Cedarville community, we regularly affirm our commitment to the Cedarville Covenant: We will love God and others, live with integrity, and pursue excellence in all we do.

The student handbook, *The Cedarville Experience*, is designed to help each student be successful academically, spiritually, and socially. It includes specific prohibitions to behaviors that are either sinful or harmful to this community, such as sexual immorality, use of alcohol, tobacco, or illegal drugs, and racial or sexual harassment. It also outlines some of the values that define and shape the culture here, including a simple dress code that seeks to remind students to dress and behave modestly and to take their academic work seriously. *The Cedarville Experience* can be accessed online at **cedarville.edu/studenthandbook**.

Cocurricular Opportunities

A wide variety of cocurricular activities are available for students, regardless of major. For information on the following, please see catalog sections as noted:

- Debate Communication, page 93
- Engineering Competitions Engineering and Computer Science, page 113
- Speech Team Communication, page 93
- Math Club Science and Mathematics, page 193
- Ensembles Music and Worship, page 157
- Student Radio Station Communication, page 93
- Theatre Art, Design, and Theatre, page 51

Music Groups

Students with musical abilities may utilize their talents in any one of a number of musical groups. Membership in any of these musical groups is determined through auditions, which occur during Getting Started Weekend.

Vocalists may sing with the Concert Chorale, Men's Glee Club, Women's Choir, Opera Ensemble, and Jubilate Ministry Choir.

Instrumentalists may participate in the Wind Symphony, University Orchestra, Jazz Band, Flute Choir, Yellow Jacket Pep Band, or various chamber ensembles.

Students may also audition for HeartSong and chapel bands directed by Christian Ministries.

Intercollegiate Athletics

Cedarville University provides intercollegiate competition for men in baseball, basketball, cross country, golf, indoor and outdoor track, soccer, and tennis. Intercollegiate sports for women include basketball, cross country, indoor and outdoor track, soccer, softball, tennis, and volleyball. Cedarville is a member of the NCAA Division II, the Great Midwest Athletic Conference (G-MAC), and the National Christian College Athletic Association.

Introduction Student Life Programs

Students interested in participating on an intercollegiate athletic team or cheerleading squad should visit the Cedarville University Athletics website (**yellowjackets.cedarville.edu**) and click on "recruits" in the menu.

Campus Recreation

Campus Recreation provides safe and exciting recreational facilities as well as a wide variety of programs and services to help meet the fitness and recreational needs and interests of our University family. Our outdoor recreational facilities include 20 acres of field space, two sand volleyball courts, and one disc golf course. Our indoor recreational facilities include a 60,000-square-foot field house, three racquetball courts, an exercise studio, a free weight room area, a circuit weight training area, 50 cardio machines, and a 36-foot indoor rock climbing wall. Our programs include over 20 intramural sports, several club sports, various outdoor pursuit trips, fitness programming, and special events. For a complete list of recreational activities and additional information, visit **cedarville.edu/recreation**.

Student Life Programs

Student Life Programs provides cocurricular activities, events, programs, and involvement opportunities with the goal of developing lifelong leaders who influence and love others and pursue excellence in all areas of life. We are committed to providing exceptional programs, services, and opportunities that are distinctively Christ-centered.

Leadership Opportunities

Student Life Programs provides opportunities for students to serve as leaders as well as providing leadership development opportunities. CU LEAD is a holistic leadership development program committed to assisting Cedarville University students in not only understanding but establishing and developing a biblical foundation for service-based leadership. CU LEAD is designed to enhance the leadership ability of students by providing them with a lens to view leadership and leadership opportunities. The core of the CU LEAD program is the foundation of leadership, which is defined by the following:

- Stewardship We recognize that all of our gifts, abilities, and talents are given to us from God, and we are responsible to use them for His glory in the service of others. (1 Pet. 4:10)
- Influence We recognize that true leadership is influence. We all have influence and it is our privilege and responsibility to influence others. We must lead like Jesus who did not have a position in society but radically changed the world for the Kingdom of God through his influence.
- Service We recognize that true leadership is not a position of honor or power but one of humility and service. (Heb. 13)

Organizations

Student Government Association (SGA) exists to provide a means by which the student body can express their thoughts and desires to the administration. SGA also orchestrates activities, chapels, organizations, and leadership opportunities for the benefit of the student body.

Academic Organizations

Accounting Society promotes accounting awareness, establishes relationships with professionals in the accounting vocation, provides tutoring for students, and promotes fellowship among accounting students.

Allied Health Student Organization promotes scholarship, fellowship, and spiritual growth among students majoring in allied health through meetings featuring clinical topics, devotions, and

prayer as well as enhance understanding of the profession and facilitate opportunities for growth.

Alpha Delta Nu is an organization that supports students majoring in criminal justice.

Alpha Kappa Delta, the local chapter of Sigma Tau Delta, is an English honor organization that recognizes outstanding students in the English program.

Alpha Sigma is devoted to promoting critical thinking through philosophical and theological inquiry into issues central to the Christian worldview and our contemporary culture.

American Society of Mechanical Engineers (ASME) is a student chapter of the American Society of Mechanical Engineers, promoting practical experience and professional development.

Association for Computing Machinery (ACM) serves to promote an increased knowledge of and greater interest in the science, design, development, construction, languages, management, and applications of modern computing as well as a greater interest in computing and its applications, a means of communication between persons having an interest in computing, and service to the community.

Association of Information Technology Professionals (AITP) provides management information systems, computer information systems, and computer science majors with opportunities to network with AITP members and learn about information systems careers through seminars and computer-related activities.

Athletic Training Organization promotes educational activities to develop closer contact with those involved in the athletic training/sports medicine profession.

Cedarville Legal Society provides a biblical view of justice in the pursuit of a law degree by sponsoring educational activities related to pursuing a legal career, establishing relationships with students with common career goals, and promoting the profession of law to Cedarville students.

Cedarville University Chemistry Club provides opportunities through professional associations and alumni to become better acquainted with the exceptional field of chemical science, to provide a platform for development in preparing and presenting technical material before interested audiences, to promote a spirit of excellence toward chemical learning and practice, and to foster an awareness of the social impact, environmental responsibilities, and challenges of the modern chemist.

Cedarville University Pharmacy Class Council supports the class to the best of their ability with any spiritual, professional, or academic issues that arise.

CEOs is dedicated to enhancing communication between the School of Business Administration and its students, enhancing the relationship between faculty and students in the program, and participating in marketing and execution of departmental events and programs.



Introduction Student Life Programs

Chi Delta Epsilon provides fellowship and seeks to stimulate professional interests and encourage professional growth among future teachers.

Chi Theta Pi provides advice and relevant experiences for students interested in the health-science professions.

Christian Pharmacists Fellowship International (CPFI) serves to promote fellowship among Christian pharmacists, pharmacy students, and those they influence; to identify issues in the profession requiring group prayer, and to provide opportunities for communication between students and professionals from numerous areas of the pharmacy profession.

Enactus provides students the opportunity to make a difference and develop leadership, teamwork, and communication skills through learning, practicing, and teaching the principles of free enterprise.

Epsilon Alpha Pi is an organization for social work majors, which seeks to promote professional development, political and social awareness, and community outreach.

Epsilon Omega is a local chapter of Phi Alpha Honor Society, the National Social Work Honor Society, committed to promoting a high standard of education for social workers.

Epsilon Pi Lambda is a student organization that provides opportunities for students to grow in their appreciation of the fields of history and government and an outlet for pursuing knowledge, obtaining academic support, gaining fellowship, and providing service.

Institute of Electrical and Electronics Engineers (IEEE) is a branch of the IEEE, which exists to promote technical and professional growth among electrical engineering students.

National Associaton for Music Education (NAfME) is the University's student chapter of NAfME for music majors and others involved in pursuing a music teaching program.

Psi Sigma Alpha is the Cedarville University chapter of Pi Sigma Alpha, the National Political Science Honor Society. The goal of this honor society is to promote the scholarly investigation of politics and to assist its members in developing their leadership potential in their sphere of influence.

Pi Epsilon Omega is for all students pursuing a major or minor in multi-age physical education, multi-age health education, and physical activity and sport study.

Psi Kappa Theta consists of students interested in psychology and behavioral sciences.

Society of Engineers Aiding Missions (SEAM) educates, equips, and engages engineers in the cause of world missions.

Society for Technical Communication (STC) promotes the purposes and services of technical communication systems.

Society for Women Engineers (SWE) is an educational and service organization that empowers women to succeed and advance in the field of engineering and to be recognized for their life-changing contributions as engineers and leaders.

Society of Human Resources Management (SHRM) is an organization for students interested in human resources and labor relations.

Society of Professional Writing (SPW) serves to advance the arts and sciences of technical communication by encouraging fellowship among professional writing and information design students and professors, promoting the program, and introducing students to the possibilities offered to them in the field of professional writing and information design.

Sport Management Organization (SMO) provides opportunities for networking and practical experiences that will help members successfully pursue professional careers within the sport industry and/or be more prepared for further academic pursuits.

Student Nurses Association promotes spiritual and professional development for nurses and service for the community.

Tau Beta Pi is a Cedarville University Engineering Honor Society, which recognizes junior and senior engineering majors for outstanding scholastic achievement combined with strong Christian character.

Tau Delta Kappa provides an opportunity for fellowship and exchange of ideas and supports students involved in the honors program.

Women in Business is an organization dedicated to helping women in professions learn more about reaching goals in careers, at home, and in service. Women in Business provides a forum for addressing issues relevant to women, helps women connect with modern female business leaders, provides opportunities for impacting women in need, and establishes camaraderie among female students of professions.

Social/Service Organizations

Campus Community Organizations

Alpha Chi, a society for men, endeavors to cultivate Christian personality and leadership in its members.

Alpha Delta Omega is an organization for women designed to encourage the development of its membership primarily through personal services to students and others.

Alpha Sigma Lambda exists to provide opportunities for students to gain experience using American Sign Language and to minister to both deaf and hearing people within the Cedarville University family and the broader community.

AYO develops choreography skills through collaboration with other student-artists and perfects these pieces in order to perform them for campus.

Cedarville Rugby is a men's club that promotes and represents the sport of rugby at Cedarville University.

Cedarville Swim Club provides a structured swimming workout for the physical, competitive, intellectual, social, and emotional benefits of members while encouraging each other in Christian love and demonstrating a Christian lifestyle.

Cedarville Ultimate Frisbee seeks to have fun and fellowship while glorifying God and also increasing the exposure, presence, and awareness of Ultimate Frisbee at Cedarville and other area colleges.

College Republicans is an organization dedicated to the development of Christian leaders in the political arena.

Delta Pi Sigma is a women's service organization whose purpose is to seek fulfillment in the lives of its members both spiritually and professionally. The primary focus is to serve the faculty and staff and their families in times of need.

DTR is a comedy club that brings people together through humor and increases the appreciation for improv and sketch comedy on campus.

Financing Hope empowers people of an impoverished community with microloans so that they can establish businesses and support their families.

French Club promotes the use of the French language and increases the knowledge and appreciation of French culture to advance awareness of missions.

German Club is for students who are interested in German language and culture. The club meets weekly for language practice and monthly for meetings, activities, and trips.

Health and Fitness Association is the principal advocate and leadership organization for University health. The association provides education, communication, products, and services as well as promotes research and culturally competent practices to enhance its members' ability to advance the health of all students and the campus community.

International Justice Mission promotes awareness on campus of issues of injustice around the globe, particularly those issues addressed by the International Justice Mission based in Washington, D.C.

Introduction Student Life Programs

K9's at the Ville is a service org providing ministry opportunity for students to be involved in the training of service dogs by aiding in the training, socializing, and fostering of the dog. The ultimate goal of K9's at the Ville is to help provide a life-altering service dog as a blessing for a family while raising awareness on campus of the needs of disabled people and the help that can be given.

Kappa Zeta Pi is a community of women who are seeking to build up our sisters in Christ in the areas of prayer, community, and spiritual accountability.

Mu Kappa is a fellowship organization serving missionary kids and international students.

Multicultural and International Student Organization (MISO) provides opportunities for international students to meet their distinctive needs and plan ways to share their unique contributions.

Phi Epsilon Beta is a women's organization promoting spiritual and social growth within its members.

Phi Gamma Psi promotes social interaction and enhances spiritual growth among women at the University.

Sanctify Ministries seeks to encourage, equip, and support students in pursuing a lifestyle of purity during and beyond their college experience at Cedarville University.

Sigma Phi Lambda is a men's organization that seeks to further the cause of Christ through various activities and service opportunities.

Spanish Club provides opportunities to practice language skills and learn about Spanish-speaking cultures through extracurricular activities.

Students for Israel seeks to provide students with a better and more accurate understanding of God's people Israel, both past and present, and to provide ways for students and faculty to minister to Israel and its people.

The Inversions are a diverse group of students who bond and express themselves through their common interest in a cappella music. They provide the community with entertainment through a cappella music, develop and enhance musicianship in members, and provide opportunities to showcase unique musical genres.

The Studio is a society of art and design that promotes art and design studies, networks art and design majors and students with shared interests, provides a mentoring program for current and incoming students, and provides design and art services for the student body as well as the University and outside clients.

Theta Rho Epsilon (OPE) is a men's organization that seeks to develop character and friendships through social and service opportunities.

Zeta Pi Sigma cultivates a community of Christian men and is dedicated to the principles of leadership by example, encouragement through service, and spiritual growth through discipleship and accountability.



Departmental Organizations

Cedarville University Emergency Medical Services (CUEMS) is a volunteer ambulance service run entirely by students from Cedarville University. As an EMS provider, CUEMS responds to all medical and traumatic emergencies on the University campus, as well as being available to the surrounding community if needed. All members of CUEMS are state-certified emergency medical technicians (EMT) trained at the basic, intermediate, or paramedic level. Cedarville University EMS is dispatched by the Greene County 911 system and has the distinction of being the first collegiate emergency medical service in the nation. CUEMS has been providing emergency services to the University and community since 1968.

Delta Alpha Epsilon (DAE) is comprised of 12 to 16 selected student volunteers. The members of DAE strive to "Build Relationships by Serving." They represent the student body to Cedarville alumni and are devoted to serving alums. The organization also assists the advancement division with a variety of activities planned for alumni and friends of the University.

Discipleship Council, affectionately known as the "DC," is a select group of upperclassmen who assist the discipleship director in administration of discipleship small groups. Throughout the year, the DC examines the topic of discipleship through Bible study, group interaction, and shared ministry experience.

Student-Athlete Advisory Committee (SAAC) promotes communication between student-athletes, University administration, Athletics, and community members. We will work to enhance the student-athlete experience by protecting the student-athletes' well-being, nurturing a positive student-athlete image to the campus and community, and maintaining our testimony to glorify God in all our efforts.

The Campus Activity Board (CAB) exists to develop and equip student leaders while serving the Cedarville University community by creating and implementing traditional, creative, and original student programs and events.

VISION is a diversity organization through Admissions that is dedicated to recruiting prospective students from underrepresented backgrounds. This includes students who are multiethnic, first in their family to go to college, missionary kids, military kids, homeschooled students, third-culture kids, and international students. The purpose of VISION is to expand Cedarville's multi-cultural community by connecting prospective students with current Cedarville University students through oncampus events and communication outreach.

Admissions

Indergraduate Admission Criteria	. 13
» Admission Criteria for Freshmen	
Candidates	. 13
» Admission Criteria for Transfer	
Candidates	. 13
» Admission Criteria for Postbaccalaureate	
Candidates	. 13
» Admission Criteria for International	
Candidates (non-U.S. citizens)	. 13
» Admission Criteria for College Now	
Candidates	. 13
» Admission Criteria for Readmit	
Candidates	. 13
» Admission Criteria for Nondegree	
Candidates (personal enrichment/	
audit)	. 13

Undergraduate Admission Process and	
Deadlines	13
Reservation Deposit	14
New Student Orientation	14
Undergraduate Admission Policies	14
» High School Preparation	14
» Grade Point Average Calculation	14
» Homeschooled Students Transcript	
Policy	14
» High School Graduation Date Policy	14
Standardized Test Use	14
» General Use	14
» Financial Aid	15
» Proficiency and Test Out	15
Undergraduate Transfer Policies	15
International Admission Policies (non-U.S.	
citizens)	15
» Standardized Test Requirement	15
» English Proficiency	15
» Financial Requirement	15

Undergraduate Admission Criteria

Apply online at cedarville.edu/myapplication

High school, transfer, postbaccalaureate, international, and nontraditional students with a clear testimony of faith in Jesus Christ and strong academic credentials are invited to apply for undergraduate admission to Cedarville University. The admissions committee seeks to admit students who possess the potential to graduate and exemplify the University's portrait statements in their spheres of influence. Students are also expected to be in agreement with key parts of the University doctrinal statement, the Cedarville Covenant, and the community lifestyle guidelines. All degree-seeking students must give evidence of high school completion by the time they enroll at the University.

Nursing, engineering, and liberal arts have minimum academic credentials for admission to their programs. Music and worship majors must audition to pursue a degree. Additionally, those interested in the Cedarville University Honors Program should observe the separate application deadline and criteria. Please review the appropriate sections of this catalog for further information on these programs.

Cedarville University does not discriminate on the basis of race, color, sex, disability, or national origin.

Note: Applicants who do not meet the stated academic criteria may still be successful in the admission process. Other factors are considered, which might indicate the potential for success. Please contact University Admissions if you have questions.

The following admission criteria are subject to change or amendment by the Cedarville Admissions Committee.

Admission Criteria for Freshmen Candidates

- 1. Evidence of a personal relationship with Jesus Christ.
- 2. A consistent Christian lifestyle confirmed by a Christian leader reference
- A minimum 3.0 weighted or unweighted, cumulative grade point average in college preparatory coursework.
- ACT, SAT, or CLT test scores at or above the national average (22 ACT; 1100 SAT; 72 CLT).

Admission Criteria for Transfer Candidates

- 1. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle confirmed by a Christian leader reference.
- A minimum 2.75 cumulative college grade point average in nondevelopmental coursework.
- Proof of successful high school completion or passing score on GED.

Admission Criteria for Postbaccalaureate Candidates

- 1. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle confirmed by a Christian leader reference.
- Successful completion of a baccalaureate degree from a regionally accredited or otherwise approved university with a minimum 2.75 cumulative grade point average.

Admission Criteria for International Candidates (non-U.S. citizens)

- 1. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle confirmed by a Christian leader reference.
- 3. Successful completion of a secondary school program.
- Transfer applicants should have a minimum of a 3.0 cumulative college grade point average in nondevelopmental coursework.

Admission Criteria for College Now Candidates

- I. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle as confirmed by a church leader.
- 3. A minimum 3.0, weighted or unweighted, cumulative grade point average in college-preparatory coursework through the end of the most recent term prior to enrollment.
- ACT or SAT test scores (22 ACT composite: 21 English, 19 Math, 20 Reading, 20 Science; SAT 1100 combined: 570 Evidence Based Reading and Writing, 550 Math). PSAT and the Classic Learning Test (CLT) can be considered for out-of-state residents only.

Admission Criteria for Readmit Candidates

A readmit candidate is defined as a former Cedarville University student who has sat out for one semester or more.

- Continued evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle confirmed by a Christian leader reference.
- Satisfactory academic progress in designated program of study.
- 4. Satisfactory student life record.

A student who has left the University under probation, suspension, or dismissal of any kind must satisfy the requirements given at the time of such action in order to be cleared for readmission.

A student who has been readmitted after one year away from Cedarville University must complete the graduation requirements as outlined in the catalog in use at the time of reenrollment.

Admission Criteria for Nondegree Candidates (personal enrichment/audit)

- 1. Evidence of a personal relationship with Jesus Christ.
- A consistent Christian lifestyle confirmed by a Christian leader reference.
- Satisfactory academic progress at most recent academic institution.

Undergraduate Admission Process and Deadlines

Cedarville University follows a rolling admissions process. An application is reviewed as soon as the application and all supplemental items are received. However, if an applicant's credentials do not meet rolling admission standards, the file may be held for additional review. This process involves a thorough review of the applicant's academic credentials as well as a variety of personal factors. Applicants held for additional review will be notified and informed throughout the process. Application files may also be held for additional information if deemed necessary. Applicants held for any reason may monitor their application status online at any time.

While there is no specific application deadline under the rolling admissions model, applicants are encouraged to apply early for the term desired due to other deadlines (e.g., financial aid, housing, etc.). International applicants do have a final application deadline of May 1 for fall semester and November 1 for spring semester.

Students who have been offered admission for a particular semester may request to defer their enrollment to a subsequent semester by notifying Admissions in writing at least one month before the semester begins. Students may defer their enrollment for up to one year from their original start term.

Reservation Deposit

A reservation deposit must be submitted by new and readmitted students in order to enroll and register for courses.

The reservation deposit is fully refundable if the request for refund is received before the reservation deposit deadline. All refund requests must be made in writing by the student. No refunds are available after the deposit deadline.

Reservation deposit deadlines are as follows:

Term Deadline
Fall Semester May 1
Spring Semester Nov. 1
Summer Session May 1

Students admitted after the reservation deposit deadlines must submit their reservation deposits within two weeks of notification of admission. See **cedarville.edu/paydeposit** for reservation deposit details.

Note: The College Now program has no reservation deposit requirement. However, you must observe the admission decision/registration deadlines found at **cedarville.edu/collegenow**.

New Student Orientation

All new degree-seeking students are required to attend the orientation program for their term of enrollment (fall or spring).

Undergraduate Admission PoliciesHigh School Preparation

Although Cedarville doesn't prescribe actual secondary school course requirements, we strongly recommend that you follow a college preparatory curriculum that includes the following:

- 4 units of English (grammar, composition, and literature)
- 3–4 units of mathematics (Algebra I, Algebra II, Geometry, Trigonometry, and Precalculus)
- 3 units of natural science (physical science, biology, and chemistry)
- 3 units of social studies (history and government)
- 3 units of a single foreign language

If you plan to study pharmacy, engineering, science, mathematics, or nursing, take as many courses in mathematics and science as possible in your secondary school curriculum.

It is common for applicants to present transcripts containing honors, advanced placement, and international baccalaureate courses.

When choosing electives in your secondary education, select those that develop your interests and skills in the field you're considering for a major.

Grade Point Average Calculation

The University will accept weighted and unweighted GPAs, along with SAT and ACT scores, for evaluation of admission and the awarding of academic and need-based scholarships. All grades earned for high school credit are considered. Please visit the University's Financial Aid website for the most current policy on the use of GPA and ACT/SAT for determining financial aid.

Homeschooled Students Transcript Policy

Homeschooled students fit right in at Cedarville University, partly because Cedarville provides the same values-centered education.

Cedarville's homeschool graduates pursue majors in numerous fields such as engineering, broadcasting, Bible, music, political science, education, biology, history, communications, nursing, criminal justice, multimedia technology, and professional writing and information design, and nearly half hold a 3.5 GPA or better. Many homeschooled students take on leadership roles at CU. Several student-leaders, dramatic performers, and resident

assistants come from a homeschooled background.

Beginning with ninth grade, your transcript should include the following information:

- Course title (i.e., Algebra I, English 10, etc.)
- Grade earned when providing grade information, be sure to provide a scale that shows the relationship between percentages and earned letter grades, even if you're only reporting percentages.
- Credit earned the standard measure for awarding credit is the Carnegie Unit, which awards one (1) credit for completion of a full year course that meets daily.

A sample transcript is available for your reference upon request from your admission counselor.

Because curricula vary from one homeschooling program to another, it's important for you to provide an explanation of your course of study and your educator's teaching methods.

- Who is ultimately responsible for setting up curriculum and selecting materials?
- What type of curriculum and materials did your educator(s) use?
- Who was responsible for providing instruction? Did you have tutors in some areas and not in others, etc.?
- Who recorded your grades and how?
- What type of independent, standardized testing was used to measure your progress against a larger population? (Include copies of this information with your transcript.)

We'd also appreciate any additional information that would shed light on your academic experience. Standardized test scores should be reported directly from the ACT or SAT.

High School Graduation Date Policy

In general, the high school graduation indicated on the high school transcript at the time of admission to either the College Now program or as a first-time freshman may not be changed.

In rare circumstances, College Now students, or first-time freshman may encounter difficulties in completing their high school curriculum by the date indicated on the initial transcript. If the circumstances are beyond the control of the student, the student may submit a written request for a change in the graduation date to Admissions. The request should include a letter of explanation from school officials along with an updated transcript containing the new graduation date.

A committee consisting of the Director of Undergraduate Admissions and the Registrar will review the request for a change to the graduation date. If a student has completed all needed college preparatory courses to be considered a high school graduate, the request will not be granted. Cedarville University will not make a change in graduation year simply based on the financial advantage it may create for an applicant. The University reserves the right to make a final determination about graduation dates.

Standardized Test Use

General Use

Cedarville University accepts ACT, SAT, and CLT tests for admission and financial aid purposes. Cedarville "superscores" all standardized tests. This means that Cedarville will take a student's highest subscores achieved on any of the dates a student took a given test and then combine those scores together to create a new composite "superscore".

Cedarville recommends that students take the ACT writing test, but it is not required for admission. Cedarville does not require SAT subject tests. Cedarville's SAT code is 1151 and Cedarville's ACT code is 3245. Test scores should be reported directly from the respective testing agency. Scores may also be reported on the official high school transcript from traditional high school programs.

Financial Aid

Accepted students may increase the amount of their financial aid awards with improved test scores if received by the posted financial aid deadlines found at **cedarville.edu/scholarships**. Additionally, there are GPA requirements for all awards.

Proficiency and Test Out

Upon enrollment, University students must demonstrate proficiency in English and mathematics. For proficiency purposes, Cedarville University will consider the highest subject score from either the ACT, SAT, or CLT. English proficiency can be met with a score of 21 on the English section of the ACT, a score of 550 on the Evidence-Based Reading and Writing section of the SAT, or a score of 52 on the Verbal Reasoning and Grammar/Writing combined sections of the same CLT. Math proficiency can be met with either a score of 19 on the math section of the ACT, a score of 530 on the math section of the SAT, or a score of 20 on the Quantitative section of the CLT. For more information, please refer to the General Education Requirements on page 24.

Undergraduate Transfer Policies

College-level courses with grades of "C-" or better and earned at accredited or other approved colleges are usually transferrable to Cedarville University. Courses in which less than a "C-" is earned are not granted transfer credit. Vocational/technical credits are generally not accepted. However, academic credit of this nature may be reviewed on a course by course basis.

Upon receipt of official transcripts, specific transfer course equivalencies will be determined by the Office of the Registrar, in collaboration with the dean or chair of the corresponding school or department. All transfer credit for which a student is eligible will be posted on the student's transcript with the assigned course equivalency and a transfer grade of "K." Grades for courses taken at other colleges and transferred to Cedarville are not included in the Cedarville cumulative GPA. Only work completed at Cedarville is included.

Students who wish to appeal a transfer decision should contact the Office of the Registrar. The registrar's office will consult with the appropriate dean or department chair to re-evaluate the course(s) in question, on the basis of additional course materials, past practices, and the student's specific circumstances. A written response will be delivered to the student in a timely way following this review by the faculty.

For international colleges or universities, the international equivalent of regional accreditation or Ministry of Education recognition will be considered. If transcripts are in a language other than English or are from a non-U.S. college/university, the original transcript must be submitted to a credential evaluation service. The original transcript should be submitted along with the official evaluation from the evaluation agency. The cost for credential verification and translation is the responsibility of the applicant. We recommend the following credential evaluation/translation services:

- International Consultants of Delaware
- World Education Services (WES)
- · Academic Evaluation Services, Inc.
- International Education Research Foundation

Additional information concerning the transfer of credits is available from the Office of the Registrar, upon request.

International Admission Policies (non-U.S. citizens)

Cedarville University welcomes applications for admission from students of all nations. The University was approved for the acceptance of nonimmigrant enrollment by the United States Citizenship and Immigration Services in 1959. International students should follow the University admissions procedures carefully, submitting their applications well in advance of deadlines so that sufficient time is available for processing and communication.

Standardized Test Requirement

All undergraduate international applicants are required to submit either the ACT, SAT, or CLT exam. Cedarville's institution code for the SAT is 1151 and the ACT institution code is 3245. Students with limited access to testing sites may have the standardized test requirement waived. Test requirement waivers will only be considered if the student provides a secondary transcript that meets University admission criteria and demonstrates English proficiency per University policy.

English Proficiency

Students must demonstrate English proficiency to be admitted to academic study. In addition to submitting the ACT, SAT, or CLT exam, international students are required to demonstrate English proficiency through one of the following:

- · Achieving an internet-based score of 80 on the TOEFL
- · Achieving a 6.5 on the IELTS exam
- Demonstrating English proficiency on the English 3 Proficiency Test (E3PT)
- Achieving an ACT composite score of at least 22 and English sub-score of 22
- Achieving a SAT score of at least 1100 and Writing and Language sub-score of 550
- Completing at least two years in an English-speaking high school setting (i.e., English-speaking international school), including two years of high school English courses (non-ESL) with satisfactory grades
- Provide proof of citizenship and residency from a native speaking English country
- Completing an entire baccalaureate program in a regionally accredited or otherwise approved college/university

Financial Requirement

To satisfy United States Citizenship and Immigration Services requirements for F-1 visa status, Cedarville University is required by law to verify the financial resources of each international applicant prior to issuing the Certificate of Eligibility (Form I-20 for F-1 visa applicants). In addition to completing application for admission materials to Cedarville University, accepted students must also submit the Affidavit of Financial Support form (with stamped, signed original bank documents showing sufficient funds available). Prior to the first day of enrollment, international students must deposit funds to cover one semester's worth of expenses at the University in U.S. currency. University expenses include tuition, room, board, and variable costs.

Questions concerning immigration issues should be directed to the International Student Services office. International students who submit either SAT or ACT scores along with their transcripts will qualify for academic institutional scholarships.



Academic Information

Graduate and Professional Education	17
Undergraduate Study	17
Calendar and Credits	17
Classification of Students	17
Assignment to Classes	17
Class Attendance	17
Undergraduate Degree Requirements	18
» Requirements for a Second Degree	18
» Graduation	18
» Early Commencement	19
Academic Programs and Majors	19
» Admission to Academic Programs	
» Selecting a Major	19
» Requirements of a Major	19
» Electives	19
» Major Fields of Undergraduate Study	20
» Minor Fields of Undergraduate Study	20
Special Academic Programs	21
» One-Year Bible Program	21
» College Now Program	21
» Preprofessional Programs	21
» Other Programs	21
» Continuing Education	21
» EMS Education and Special Credit	21
Summer Terms	21
CU Study Abroad Opportunities	21
» Special Programs	21
» International-Intercultural Student Teachin	g
Programs (IIP)	22
» Au Sable Institute of Environmental	
Studies	22
The Cove — Academic Enrichment Center	22
» Tutoring	22
» Courses	22
» Services	22
Additional Academic Support	23
» The Centennial Library	23
Credit by Examination	23
» Advanced Placement	23
» College Level Examination Program	
(CLEP)	
» Institutional Test-Out	23
» International Baccalaureate	23

General Education Requirements	24
General Education Course Sequence	26
» Course Load	26
Distance Education	26
Transient Study	26
Registration for Courses	26
» Course Numbers and Designations	26
» Alternate Year Courses	26
» Continuing at the University	2
» Course Registration	2
» Undergraduates in Graduate Courses	2
» Auditing	2
» Adding and Withdrawing From a	
Course	28
» Independent Study	28
» Internships	29
» Out-of-Class Courses	29
Grading System	29
» Credit/No Credit Program	29
» Grade Points and Point Averages	30
» Grade Appeal Process	30
» Petitions and Student Complaints	30
» Academic Progress, Warning, and	
Suspension	30
» Academic Progress Chart	30
» Repeating Courses	3
» Academic Integrity	3
Academic Honors	32
» Dean's Honor List	32
» Dean's List	
» Graduation with Honors	32
» Additional Academic Awards	
Withdrawing From the University	32
» Withdrawal for Military Reasons	
Family Educational Rights and Privacy Act	
Academic Leadership	30
» Deans and Chairs	30

Graduate and Professional Education

During the last decade, Cedarville University has expanded its graduate, first-professional, and certificate programs, serving students from the local region and around the world. All of these programs feature biblical integration, practical application, collaborative engagement, and technological innovation.

Programs are delivered in online, hybrid, or traditional oncampus formats. Class schedules are convenient for graduate students. To ensure access, costs are competitive and financial aid options are available for degree programs.

More than 20 undergraduate programs offer optional pathways to Cedarville's master's degrees. Interested students should consult with their academic advisor and follow the pathway curriculum that is provided at **cedarville.edu/gradpathways**.

Current graduate, first-professional, and certificate offerings:

Degree/Program	Delivery Format
Master's Degrees	
Master of Business Administration	Online
Concentration: Business Analytics	Online
Concentration: Cybersecurity Management	Online
Concentration: Healthcare Administration	Online
Concentration: Innovation and	
Entrepreneurship	Online
Concentration: Operations Management	Online
Master of Divinity	Campus
Advanced Master of Divinity	Campus
Master of Ministry	Campus/Online
Master of Science in Nursing	
Focus: Family Nurse Practitioner	Online
Focus: Global Public Health Nursing	Online
Focus: Nurse Educator	Online
Focus: Nursing Leadership in Healthcare	
Improvement	Online
Focus: Pediatric Nurse Practitioner	Online
Doctorate	
Doctor of Pharmacy	Campus
Dual Degree: Pharm.D./M.B.A.	Campus/Hybrid
Dual Degree. Friami.b./M.B.A.	Campus/Hybrid
Graduate Certificates (non-degree)	
Cybersecurity Management	Online
Global Public Health Nursing	Online
Healthcare Administration	Online
Nursing Education	Online
Nursing Leadership	Online
Operations Management	Online

For information about available graduate, first-professional, or certificate programs, contact Graduate Admissions at 937-766-8000, email **gradadmissions@cedarville.edu**, or visit **cedarville.edu/graduate.**

Undergraduate Study

The Cedarville University undergraduate academic program is designed to meet the educational, moral, physical, social, and spiritual needs of young people who desire to honor God with their lives. The total program represents a balance between the knowledge gained through the courses studied, the cocurricular activities, and worship in the regular chapel and church services. In such a setting, truth from Scripture is integrated with the knowledge taught in each course to provide effective learning and enduring life values. The knowledge and skills learned from the courses give students an excellent background for professional competence in their chosen fields.

Calendar and Credits

The regular undergraduate academic year consists of two semesters of 15 weeks each plus final exam days, extending from August to May. Credits are earned in terms of semester hours; a semester hour equals one 50-minute period each week for one term. As an illustration, a student completing a course that meets 50 minutes a day, three days a week, for 15 weeks receives three semester hours credit. Laboratory sessions, applied music courses, physical education courses, compressed courses, and internships are exceptions to this pattern.

Classification of Students

Regular students are those who have met the requirements for admission, are enrolled in a degree program, and are carrying at least 12 semester hours of credit from Cedarville University in that academic semester. Nondegree students are those taking courses but not enrolled in degree programs. Part-time students are those who have met all admission requirements, are seeking a degree, and are taking fewer than 12 semester hours. Transfer students are those who have studied full time for at least one term at another accredited college or university after graduation from high school. High school students are those who have not completed high school graduation requirements.

Assignment to Classes

Official class membership is determined according to the following schedule:

Class	Hours Completed
Freshman	0–30.99
Sophomore	31–60.99
Junior	61-90.99
Senior	91+
Nondegree	Assigned

Class Attendance

In general, regular attendance is necessary for the student to receive full benefit from the college experience. Since there are several different ways in which ideal class attendance may be achieved, official faculty policy allows each faculty member to determine and develop attendance standards that will meet the particular needs of the course.



Academic Information Undergraduate Degree Requirements

Undergraduate Degree Requirements

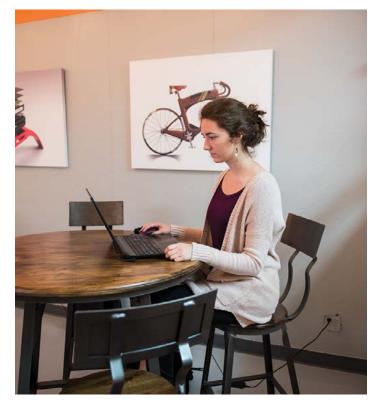
Cedarville University offers eight baccalaureate degrees: Bachelor of Arts (B.A.), Bachelor of Music (B.M.), Bachelor of Music Education (B.M.E.), Bachelor of Science (B.S.), Bachelor of Science in Computer Engineering (B.S.Cp.E.), Bachelor of Science in Electrical Engineering (B.S.E.E.), Bachelor of Science in Mechanical Engineering (B.S.M.E.), and Bachelor of Science in Nursing (B.S.N.).

A degree candidate should carefully study the requirements for that degree as well as the special requirements for graduation found in this catalog. Careful attention to these requirements will enable the student to avoid doing unnecessary work.

Students are responsible to see that graduation requirements are met. Bachelor's degree requirements are listed below.

- 1. Meet all admission and proficiency requirements.
- Complete at least 128 semester hours (not including proficiency), 32 hours of which must be of upper-division work (3000–4000 level-courses).
- 3. Maintain an overall cumulative GPA of not less than 2.0.
- 4. Maintain a GPA in the major of not less than 2.0.
- 5. Establish minimum residency of one year (32 semester hours, normally the senior year).
- 6. Complete the general education requirements.
- Complete the specific course and professional requirements for the desired major. At least one-third of the course requirements within a major must be taken from Cedarville University.
- 8. Pass ENG-1400 Composition.
- 9. Satisfy the appropriate global awareness requirement.
- Participate in the University testing and assessment program when asked.
- 11. Complete an application for graduation.

Specific curricular requirements are outlined in each departmental section of the catalog.



Requirements for a Second Degree

If a student has a baccalaureate degree from Cedarville University and desires to earn a second degree, the student must:

- 1. Meet all the admission requirements.
- Have fulfilled each of the general education courses in biblical education.
- Earn a minimum of 160 credits (32 credits beyond the 128 minimum required for a first baccalaureate degree). At least 22 of the credits earned after 128 must be taken at Cedarville University.
- Earn at least 43 credits in upper-division courses (3000– 4000 level courses).
- Fulfill the requirements of a designated major of the second baccalaureate degree. Any appropriate coursework from the first degree may be applied toward the second degree.
- 6. Earn at least a 2.0 GPA in the major.
- Participate in the University testing and assessment program when asked.
- 8. Complete an application for graduation.

If a student has a baccalaureate degree from another institution and desires to earn a second degree, the student must:

- Have earned the first baccalaureate degree from a regionally accredited institution of higher education or from an institution specifically approved by Cedarville University.
- 2. Meet all the admission and proficiency requirements.
- Earn at least 32 credits from Cedarville University, including at least 22 credits of upper-division courses (3000–4000 level courses).
- 4. Fulfill the equivalent of the Cedarville University general education requirements.
- Fulfill the requirements of a designated major for the second baccalaureate degree.
- 6. Earn at least a 2.0 GPA in the major.
- 7. Participate in the University testing and assessment program when asked.
- 8. Complete an application for graduation.

Graduation

All students must realize that it is their responsibility to check on their progress toward meeting all requirements for graduation. They are urged to plan the class schedule for both semesters of the senior year at early registration time at the end of the junior year. This plan should be approved by the advisor and checked to see that when it is completed all degree requirements will have been met.

To participate in the May commencement ceremony, students must submit applications for graduation by February 1 of the year they plan to graduate. This includes May, August, and December graduates.

IMPORTANT

The catalog in use when a student first enrolls governs that student's graduation requirements, unless that catalog is more than 10 years old or that student has left and then re-enrolled more than one year later. Consequently, that catalog should be retained and used as a guide in case changes are made in the course or graduation requirements during the time the student is enrolled. A student may select a subsequent catalog if the student wishes; however, all requirements from that catalog must be completed.

Academic Information Academic Programs and Majors

Early Commencement

Students who cannot complete their graduation requirements before the end of the spring semester of their senior year, but who can complete them during the following summer or fall semesters, must apply to participate in commencement before degree requirements are met. Students who have more than 18 semester hours and/or a cummulative grade point average below 2.30 to complete after the spring semester must obtain approval from the Office of the Registrar to participate in commencement. Information concerning eligibility for August or December graduation and early commencement is available in the Office of the Registrar.

Academic Programs and Majors Admission to Academic Programs

Some academic programs have unique requirements. For example, music students must audition for entry to that department; engineering candidates must meet a minimum test score requirement; students in education, social work, and nursing apply for admission to their respective programs during their sophomore year after the program prerequisites have been satisfied; admission into the athletic training program is competitive and limited to the top 10 eligible students. Therefore, students should review the specific entrance requirements outlined in the respective departmental sections of the catalog. Admission to the University does not guarantee admission to an academic program.

Selecting a Major

Many students have not chosen a major field of study by the time they enroll at Cedarville. Others change their major at some time during their collegiate studies. The University offers special advising and other services to help students make these important decisions through the academic enrichment center.

Students uncertain of a major begin as "undeclared" majors. They work with academic advisors who specialize in helping students who have not yet chosen a field of study. Until they choose a particular major, undeclared students typically take courses specified as meeting the general education requirements. They are also encouraged to utilize the resources of Career Services. This office offers career profiles, interest inventories, and counselors so that students in the midst of making career decisions have good information.

Most undeclared students select a major by the middle of the sophomore year. In many instances, delaying the choice of major does not extend the time needed to graduate from Cedarville. However, in programs of study with extensive specific course requirements, delaying the choice of that major even one semester can cause students to take longer to complete degree requirements. The suggested four-year curricula listed with each major outlines the recommended course sequences.

Requirements of a Major

The amount of work for a typical major field approximates 36 semester hours and must include the requirements of the department. Comprehensive majors are typically from 48 to 60 hours. Specific requirements are listed at the beginning of department course offerings.

In order to graduate, a student must satisfy the requirements for at least one major field of study. With proper scheduling, he or she may concurrently complete the requirements for more than one major. Majors involving fewer than 42 semester hours of coursework lend themselves to this approach.

Major courses in which "D" grades are received may count as meeting the requirements of the major field if permitted by departmental policy. If "D" grades are not permitted, the department Chair or dean of the school may approve a course substitution as an alternative to repeating a course.

To qualify for graduation, students must maintain at least a 2.0 GPA for their major.

Electives

The provision of elective choice is based upon the premise that students should have an opportunity to strengthen their major field or minor field or broaden their background by selecting courses in areas of inadequacy or interest. Elective choice also provides students with some flexibility should they decide to change major fields.



Academic Information Academic Programs and Majors

Major Fields of Undergraduate Study

The University offers 73 major fields of undergraduate study. Some of the majors represent combinations of two or more areas of study; these are denoted with an asterisk (*). Course requirements for each of the majors are outlined in the respective departmental sections of the catalog. Major fields of study include:

- Accounting Bachelor of Science
- Allied Health Bachelor of Science
- Biblical Studies
- Biblical Studies —
 Accelerated B.A./Master of Divinity
- Biology
- Broadcasting, Digital Media, and Journalism
- Chemistry
- Chemistry Education
- · Christian Education
- Civil Engineering
- Communication
- · Computer Engineering
- Computer Science
- · Criminal Justice
- · Cyber Operations
- Economics Bachelor of Arts
- Economics Bachelor of Science
- · Electrical Engineering
- English
- Environmental Science
- Finance Bachelor of Science
- · Forensic Science
- Geology
- Global Business
- Health and Physical Education — Multi-age
- History
- Industrial and Innovative Design*
- Information Technology Management — Bachelor of Science
- Intercultural Studies Missiology
- International Studies*
- Keyboard Pedagogy
- Language Arts Education
 Integrated
- Liberal Arts
- Life Science Education
- Linguistics

- Management Bachelor of Science
- Marketing
- Mathematics
- Mathematics Education Integrated
- Mechanical Engineering
- Middle Childhood Education
- Molecular Biology
- Music
- Music Composition
- Music Education Multi-Age
- Music Performance
- Nursing
- Pharmaceutical Sciences
- Physical Education Multi-Age
- Physical Science Education
- Physics
- Physics Education
- Political Science
- Prelaw*
- Primary (P-5) Education
- Professional Writing and Information Design
- Psychology
- Science Comprehensive Education — Integrated
- Social Studies Education
 Integrated
- Social Work
- Spanish
- Spanish Education Multi-Age
- Special Education-Intervention Specialist
- Sport Business Management
- Sport Medicine Bachelor of Science
- Studio Art
- Theatre
- Visual Communication Design
- Worship
- Youth Ministries

Minor Fields of Undergraduate Study

Fifteen credits in a particular field of study usually constitute a minor. Cedarville graduates complete a minor in Bible as part of the general education requirements. Other minor fields are optional. One-third of the minor must be completed at Cedarville. Available minors include:

- Accounting
- Actuarial Science
- Addictions and Chemical Dependency
- · Arts Administration
- · Asian Studies
- Bible
- Bible Teacher Education
- Biblical Care and Counseling
- Bioethics
- Biology
- Biomedical Engineering
- Broadcasting and Digital Media
- Business Administration
- Business Analytics
- Chemistry
- · Child and Family Studies
- Christian Ministry
- · Church History
- Comprehensive Communication Arts
- Comprehensive Counseling
- Computer Science
- Creative Writing
- Criminal Justice
- Cross-Cultural Nursing
- Cross-Cultural PsychologyDigital Video
- Earth Science
- Economics
- Editing and Publishing
- Entrepreneurship
- French
- Geology
- German
- · Graphic Design
- Greek
- Health Psychology and Public Health
- History
- Honors
- Information Technology Management

- Interactive Web Design
- Intercultural Communication
- International Business
- International Studies
- Latin American Studies
- Linquistics
- Literature
- Marketing
- Mathematics
- Middle Eastern Studies
- Mission
- Motion Graphics
- Music
- Music Technology
- National Security
- Neuropsychology
- Organizational Communication
- Pastoral Ministry
- Philosophy and Theology
- Physics
- Political Science
- Preseminary Bible
- Psychological Research
- Public Administration
- Public Policy
- Public Relations
- Sociology
- Spanish
- Spanish for Healthcare Personnel
- Spanish for Professionals
- Sport Management
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)
- Theatre
- Theatre Design
- Theatre PerformanceWestern European Studies
- Women's Ministry
- WorshipWriting for the Professions
- VVriting for the
 Youth Ministry

Academic Information Summer Terms

Special Academic Programs

Cedarville offers several special programs designed to enhance the collegiate experience and/or to help prepare for a particular career.

One-Year Bible Program

The University offers a concentrated program for the student who desires a formal education in Bible before pursuing a vocation at home or engaging in a field of technical study not available in a Christian school. It is designed so that a student can function as a more knowledgeable layperson at church. This curriculum is outlined in the Biblical and Theological Studies section of this catalog.

College Now Program

Students entering grades seven through 12 may apply to take dual credit courses in Cedarville's College Now program. These academically rigorous courses are offered during summer, fall, and spring terms. Tuition is deeply discounted, and Ohio students may use College Credit Plus funding to pay for qualifying courses. Oncampus housing is not available to College Now students unless they are attending the Summer Scholars program.

Eligible high school students may apply for summer online courses (May–August) and rising high school juniors and seniors may apply for Summer Scholars, a two-week residential program offered in June. Designed to provide the full Cedarville experience, Summer Studies allows students to complete one college course while enjoying campus life for two weeks. Visit **cedarville.edu/collegenow.**

Preprofessional Programs

Many students seek specialized training in professions after attending Cedarville University. A number of preprofessional programs are available. The preseminary curriculum, which prepares students for seminary studies and the Gospel ministry, is outlined in the Biblical and Theological Studies section of this catalog. The prelaw curriculum prepares students for law school and is explained in the history and government section of this catalog. Preprofessional curricula in dentistry, medical technology, medicine, optometry, osteopathy, physical therapy, and veterinary medicine are described in the science and mathematics section of this catalog.

Other Programs

- Honors
- · Certificate in Medical Spanish
- · Medical Technology
- ROTC Army and Air Force
- TESOL Teaching Endorsement (Teaching English to Speakers of Other Languages)

Descriptions of these programs are located in the academic departments sponsoring the programs.

Continuing Education

Cedarville University offers a variety of non-credit courses for lifelong learning through continuing education. Courses are open to students, faculty, staff, and adults from surrounding communities. Some courses and seminars are offered to fulfill CEU requirements for various professions.

Non-credit courses do not accumulate toward a degree or certificate, but are the same high-quality programs that you expect from Cedarville University. They can be useful for career enhancement, personal improvement, or taken just for enjoyment.

Typical courses include Excel at Reading, French, EMT, and Advanced EMT. Visit **cedarville.edu/continuinged** for current course and CEU offerings.

EMS Education and Special Credit

The Cedarville University Emergency Medical Services Education program was developed by the Center for Lifelong Learning to meet the needs of the Cedarville University EMS squad, local fire departments, and local EMS departments who are providing skilled emergency medical care to the communities they serve. Courses are offered on campus each semester. After students complete and obtain state EMT certification, they will be qualified to provide emergency care in a pre-hospital setting to their level of certification. The program is based upon the National Standard Curriculum, prepared by the U.S. Department of Transportation.

Cedarville University will grant credit for EMT and paramedic training. Upon receipt of bona fide copies of National Registry certificates of completion, the University will grant seven semester hours of elective credit for EMT training, three additional semester hours for Advanced EMT training, and five semester hours for paramedic training.

Since 2004, the University has been accredited by the State Board of Emergency Medical Services (Accreditation #387) to conduct EMS training. Reaccreditation was granted in 2015 for another three years.

Summer Terms

The University offers many courses online in the summer in addition to the sessions on campus, one in May and one in June.

The summer sessions appeal to a variety of students. Some wish to accelerate their college programs. Students from other institutions may desire Bible courses that are not available at their institutions. Teachers find the summer terms a convenient means by which to update themselves in their disciplines. Others enjoy the advantages of smaller summer classes. Incoming international students recognize summer attendance as an excellent opportunity to become acclimated to academic pursuits before campus activities begin in the fall.

Continuing students interested in attending summer school should contact the summer school office. New students should contact Admissions. Visit **cedarville.edu/summerschool**.

CU Study Abroad Opportunities

Students are encouraged to take advantage of a semester-long or yearlong program through one of Cedarville's program partners or to participate in one of our own faculty-led summer progams. Participants remain enrolled at Cedarville, continue to receive financial aid, and take courses for Cedarville credit. Advanced planning is highly recommended. For additional information and help with planning, contact CU Study Abroad at **cedarville**. **edu/studyabroad**. Preapproval from CU Study Abroad must be received before students can participate in any of the programs. To register for credit, participants must be degree-seeking students or receive permission from the Dean of Graduate Studies. CU Study Abroad has cooperating agreements with several program partners. Opportunities to study abroad or in the U.S. are available in more than 40 countries and 118 locations through these agreements. Restrictions apply to some of the programs.

Special Programs

Cedarville University in Spain

cedarville.edu/semesterinspain

Cedarville students are encouraged to study with Cedarville in Spain. Cedarville's own learning center is located in sunny Valencia, Spain. In addition to taking courses with a prestigious language institute, students can participate in service learning opportunities depending on their level of Spanish. The program is directed by Dr. Andrew Wiseman and the Department of English, Literature, and Modern Languages.

Academic Information CU Study Abroad Opportunities

Cedarville University D.C. Semester

cedarville.edu/dcsemester

During fall semesters, students can participate in our own program in Washington, D.C. Students take 16 credits, 10 of which are an internship in their chosen major. Students are housed at the Heritage Foundation and courses are taught by a Cedarville professor who lives in D.C. for the semester. The program is directed by Dr. Mark Smith and the Center for Political Studies.

Cedarville University Geology of National Parks

The Geology of National Parks program is one of the most popular faculty-led summer study abroad options offered at Cedarville. The hands-on program is taught by a Cedarville professor and tours numerous national parks during May Term. The course fulfills Cedarville's general education physical science course requirement.

CU Study Abroad Summer Programs

CU Study Abroad continually works with professors who desire to teach specialized courses abroad. Each summer a variety of faculty-led study abroad programs are available for students to take general education and/or upper-level courses. These summer programs are ideal for students whose majors do not have the flexibility of a full semester or year abroad. Locations and programs vary each summer.

International-Intercultural Student Teaching Programs (IIP) International

CCTECC (Christian Coalition Teacher Education Coordinating Council)/STAGE (Student Teaching and Global Experience) is made up of Christian universities from across the U.S. Since the late 1980s, CCTECC/STAGE, of which Cedarville is a member, has assisted Christian institutions place quality student teachers in quality schools on every continent except Antarctica. Students are placed in environments that are safe and nurturing educationally, personally, and spiritually. Student teachers from Cedarville have taught in over 20 different countries. Literally speaking, 'the sun never sets' on Cedarville teacher candidates.

Intercultural

Two intercultural options are offered through CCTECC/STAGE. One is at Christian Liberty School in Keaau, Hawaii, and the other at Native American Christian Academy in Sun Valley, Arizona.

Cedarville has a separate partnership with Wichita Public Schools, Wichita, Kansas. This partnership offers our student teachers the opportunity for placement in an urban setting comprised of a richly diverse student body where 105 different languages are spoken in student homes. Teacher candidates will be exposed to innovative and rigorous educational practices under the daily direction of quality mentor teachers as WPS students are prepared to achieve college, career, and life readiness.

Cedarville teacher candidates apply for these programs early in their junior year. Only those with a good academic record, strong character, and spiritual and professional performance references are allowed to participate. Both international and intercultural opportunities meet Cedarville's standards and requirements as set by the Ohio Department of Education. Interested students should contact Dr. Brenda MacKay at mackayb@cedarville.edu.

Au Sable Institute of Environmental Studies

Cedarville University is a "sustaining partner" with Au Sable Institute. Students enrolled at Cedarville University (and who meet prerequisites) may take advantage of field-intensive courses offered by the Au Sable Institute, including geographic information systems, marine mammals, international development, tropical agriculture, marine biology, wildlife ecology, and missions. Students may choose to attend any of four Au Sable Institute

locations: Au Sable Great Lakes (Mancelona, Michigan), Au Sable Pacific Rim (Whidbey Island, Washington), Au Sable Costa Rica (Vara Blanca, Costa Rica), and Au Sable India (Tamil Nadu, South India). Au Sable courses provide academic content, field experience, and practical tools for stewardship of creational resources. The Institute grants vocational certificates for environmental analysts, land resource analysts, water resource analysts, and naturalists. Academically qualified students are awarded the Au Sable Fellowship (\$1,500). Institute Grants-in-Aid of at least \$600 are also available each year. Honors scholarships of \$250–400 are granted to returning students. As a "sustaining partner" Cedarville students are also granted a tuition discount (\$500 per course). Interested students should contact Dr. Mark Gathany, Cedarville University's Au Sable Institute representative. at mgathany@cedarville.edu.

The Cove — Academic Enrichment Center

The Academic Enrichment Center, known as The Cove, exists to cultivate academic scholarship among all Cedarville students — whether you're a B student striving to be an A student, or a C student striving to be a B student. More than simply accurate note taking and successful test taking, scholarship is the spirit of learning. It's not about having a 4.0 but about students doing their personal best — having goals for their futures, discovering their academic learning styles, and taking advantage of the services.

For you to excel in your studies, you need the proper resources. The Cove offers many such resources — including tutoring, one-on-one consultations, and much more. We will connect you with services that will help you discover your academic learning style and create goals for your Cedarville experience.

Tutoring

- Academic Mentoring
- Peer coaches
- Peer tutors
- · Small study group tutoring
- Tutoring labs

Courses

- COLL-0900 Foundations* (to equip and assist students to be successful through their first year of college)
- COLL-1010 MAP (managing academic probation)
- DEV-0900 Intermediate Algebra*
- * The credit hours may not be used toward the hours needed for graduation.

Services

- Disability Services Provides reasonable, appropriate
 accommodations to ensure equal access to programs
 and services for students impacted by a disability. If you
 are in need of accommodations because of the impact
 of a disability, please contact Disability Services at
 disabilityservices@cedarville.edu or 937-766-7437. Detailed
 information on Disability Services and the accommodation
 process can be found at cedarville.edu/DisabilityServices.
- Tutoring
- · Faculty academic coaching
- Disability services
- · Online resource site
- · Presentations and seminars
- · Support for exploratory/undeclared majors

See **cedarville.edu/TheCove** for more information on the programs, courses and services.

COLL-0900 This one-credit-hour course may be required for some students whose academic backgrounds do not reflect their collegiate potential. This opportunity reflects our desire for each student to establish a strong academic foundation and maintain academic momentum. Admission to the required course is

Academic Information Additional Academic Support

determined by the admissions committee. There is a \$150 course fee for Foundations, which is limited to 12 students per class. Credits earned for COLL-0900 Foundations do not count toward the 128 hours required for graduation.

Additional Academic Support

Each student is assigned to an academic advisor who offers counsel concerning course scheduling. A student who has not declared a major will be assigned to a special advisor equipped to offer assistance in selecting a field of study. Students are encouraged to consult their academic advisor prior to registration, whenever an academic problem is encountered, or when considering any changes in their educational program. A student with low grades in a major or minor field may be advised to select another field of study.

The Centennial Library

The Centennial Library provides students with world-class information resources in physical and digital formats including printed books and journals, extensive e-book and e-journal collections, physical and digital media, and specialized, programspecific tools and databases. Through the library's Research Center, library professionals support students and faculty in making more efficient use of library resources through workshops, classroom instruction, online help, and individual research appointments. The library's collections are supplemented by access to the resources of OhioLINK, a statewide network of 121 Ohio college and university libraries, with access to more than 46 million library items either online or through a state-wide delivery system.

The library also contains the MediaPLEX, the Curriculum Materials Center, computer classrooms, a variety of individual and group study facilities, and the University archives. The MediaPLEX offers project and production support including copying, printing, paper and materials supply, and other services. The Curriculum Materials Center provides PreK–12 resources to support the School of Education, as well as other education and ministry-related resources. For more information and to access the library's catalog and online resources, visit the library's website at cedarville.edu/library.

Credit by Examination Advanced Placement

High school students may receive advanced collegiate standing by participating in the advanced placement program. Up to 40 semester credits may be earned through this program or by other test-out procedures. Hours earned through the advanced placement program do not count as hours in residence toward graduation with honors.

To earn credit through advanced placement, students must enroll in specific advanced placement courses offered by their respective high schools. Upon completing these courses, students take individual advanced placement examinations in each advanced placement course. Students may earn college credit for advanced placement scores of three, four, or five.

Students should request that scores from these examinations be sent directly to Cedarville University by entering code number 1151 on their registration forms. Upon receipt of an official score report, the University awards the appropriate amount and type of credit for each examination as determined by each academic department. No fees, other than the fees accompanying the examinations, must be paid in order to receive the University credit. In some cases, sophomore standing in particular subject areas may be earned through these examinations. Students should contact their local high schools to obtain advanced placement course and registration information.

College Level Examination Program (CLEP)

Students earn credit through CLEP by taking nationally standardized examinations in a variety of subject areas. These tests may be taken at local colleges before enrolling at Cedarville or at Cedarville after enrolling. To have CLEP scores sent directly to Cedarville University, students should enter code number 1151 on their CLEP registration forms. An official copy of the score report must be received before CLEP credit will be evaluated and recorded. By earning scores above specified levels, students receive college credit in specific course areas. Up to 40 semester credits may be earned through this program or by other test-out procedures. A complete list of the appropriate tests and respective Cedarville courses, as well as registration information, is available from Admissions, the Office of the Registrar, or the University website. No fee, other than those accompanying the examinations, must be paid in order to receive college credit through CLEP.

Students who wish to use CLEP examinations to satisfy general education requirements in foreign language, literature, mathematics, natural sciences, and social sciences must earn credit-satisfying scores on the respective CLEP examinations by the time they earn 61 semester credits. Students may not pursue CLEP credit for courses in which they were enrolled previously, nor may they pursue CLEP credit for a course if they have taken a more advanced-level course in that discipline.

Transfer students transferring more than 61 credits must earn credit-satisfying scores on respective CLEP examinations by the end of their first semester of full-time attendance at Cedarville. Hours earned through CLEP do not count as hours in residence toward graduation with honors.

Institutional Test-Out

Qualified students may earn credit toward graduation by passing the appropriate examinations with a grade of "B" or better. A student interested in testing out should obtain a test-out request form from the Office of the Registrar, obtain approval for the test-out from the chair of the department in which the course is offered, and pay the test-out fee in the Cashiers Office. Upon completion of the approval process, the student is responsible to contact the instructor of the course to schedule the test. At the conclusion of the testing process, the test-out form will be forwarded to the Office of the Registrar, denoting whether or not the student met the minimum criteria for credit. If applicable, credit for the course and a designation of test-out will be added to the student's transcript with a grade of CE (credit by examination). This grade is not computed into the cumulative GPA. No fee, other than the initial test-out fee, must be paid to receive institutional test-out credit

A student may not test out of a course previously audited. Tests must be taken during registration week or during the first two full calendar weeks of the semester. Credits earned by test-out during a semester do not count toward the 12 semester hours required for full-time status. No student may earn more than 40 semester hours of test-out credit through tests administered at the University, CLEP, AP, IB, or any other recognized testing agency. Hours earned by test-out do not count as hours in residence toward graduation with honors.

International Baccalaureate

The International Baccalaureate (IB) is an internationally recognized program that enables students to follow a special curriculum and take specific examinations to fulfill secondary school graduation requirements. Students can earn up to 18 semester hours for IB Higher Level examinations on which they earn scores of five, six, or seven. A maximum of six credits is permitted in any one group. To receive credit, students should submit IB transcripts to Admissions.

Academic Information General Education Requirements

General Education Requirements

The University requires a pattern of proficiencies and courses to help achieve institutional objectives. These objectives are designed to provide an educational experience that broadens the student's outlook and knowledge.

The general education pattern is:

I. University Study Skills Requirements......0 hrs Students may satisfy the University study skills requirements through one of the following methods:

- Score 22 or higher on the ACT Composite (writing section optional) or score 1100 or higher on the SAT (Critical Reading + Math combined score) or score 72 or higher on the CLT, AND achieve a high school GPA (unweighted) of 3.0 or higher
- Score a 21 or higher on the ACT Composite (writing section optional) or score a 1080 SAT (Critical Reading + Math combined score) or score 68–72 or higher on the CLT, AND achieve a high school GPA (unweighted) of 3.5 or higher
- Achieve a cumulative college GPA of 2.75 or higher in at least 12 hours of 1000-level (or higher) college coursework completed prior to enrollment at Cedarville. Proficiency will be satisfied and transfer credit will also be awarded
- 4. Successfully complete the course COLL-0900 Foundations (one semester hour; fee: \$150), which is to be taken during the first semester of matriculation. This credit does not apply toward the 128 credits needed for graduation. NOTE: Pending availability in the course, COLL-0900 Foundations is open to all students regardless of whether or not they satisfy the college study skills requirement.

Students may satisfy the English proficiency requirement through any one of the following methods:

- Score 21* or higher on the English section of the ACT; or
- Score 550* or higher on the Evidence Based Reading and Writing section of the recentered SAT; or
- 3. Score 52 or higher on the Verbal Reasoning and Grammar/ Writing combined sections of the same CLT test; or
- Score 59 or higher on the CLEP College Composition Examination; or
- 5. Complete a course equivalent to Cedarville University ENG-0900 Writing Studio with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning prior to matriculation at Cedarville. The credits will not be transferred, but proficiency will be established and enrollment in ENG-1400 Composition will be permitted; or
- Complete a college-level composition course with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
- 7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course ENG-0900 Writing Studio (one semester hour). This course will be taken concurrently with the composition course during the first year at Cedarville. The one credit for this course does not apply toward the 128 credits needed for graduation.
- B. Mathematics(0–2) Students may satisfy the mathematics proficiency requirement through any one of the following methods:
 - Score 19* or higher on the mathematics section of the ACT; or

- Score 530* or higher on the mathematics section of the recentered SAT; or
- Score 20 or higher on the Quantitative Reasoning section of the CLT test; or
- 4. Score 53 or higher on the CLEP College Algebra exam; or
- Complete a course equivalent to DEV-0900 Intermediate Algebra with at least a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. The credits will not be transferred, but proficiency will be established and enrollment in college-level quantitative courses will be permitted; or
- Complete a course equivalent to the Cedarville University GMTH-1020 College Algebra with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
- Complete the ALEKS assessment with a score of 100 on the mathematics section and a score of 80 or higher on the algebra section; or
- 8. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course DEV-0900 Intermediate Algebra (two semester hours), which should be completed during the first semester of matriculation at Cedarville University and must be completed no later than the last term of the sophomore year. These two credits do not apply toward the 128 credits needed for graduation.

III. Biblical Education A. BTGE-1725 The Bible and the Gospel B. BTGE-2730 Old Testament Literature C. BTGE-2740 New Testament Literature D. BTGE-3755 Theology I E. BTGE-3765 Theology II	3 3 3 3
IV. Communication	3
V. Humanities A. HUM-1400 Introduction to the Humanities B. Any 2000-level literature course C. At least three semester hours from the following: **ANTH-1800 Cultural Anthropology ART-1100 Introduction to Art BTPA-2200 Introduction to Philosophy BTPA-2250 Ethics BTPA-2260 World Religions COM-2140 Intercultural Communication COM-2300 Voices of Diversity COM-4110 History of Public Address EDUC-2400 Children's Literature EDUC-3100 Philosophical Foundations of Education EGGN-3110 Professional Ethics FILM-2350 Christian Motifs in Film HLMU-2310 Introduction to Music Literature HUM-2430 Enjoyment of Music NSG-3050 Behavioral and Mental Healthcare PYCH-3720 Psychology of Personality THTR-1410 Introduction to Theatre Any second year foreign language course Any other 3-hour literature course	3 3 **3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3

*Standardized test scores (ACT, SAT, CLT) earned more than three years before matriculation will not be accepted to meet the proficiency requirement.

Academic Information General Education Requirements

**ANTH-1800 Cultural Anthropology may satisfy either the Humanities elective or the social science elective, but not both.

++In satisfying requirements B and C, students may not take more than one course from their major field of study.

VI. Global Awareness

Students pursuing a **Bachelor of Arts (B.A.)**, **Bachelor of Music (B.M.)**, or **Bachelor of Music Education (B.M.E.)** degree must meet one of the following requirements:

- A. Pass three years of the same foreign language* in high school or one term of an intermediate college-level foreign language*; or
- B. Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12; or
- C. Pass two years of the same high school foreign language* or pass the second semester of a college-level foreign language* and one of the following:
 - A global awareness course selected from the list under letter D below.
 - 2. An approved intercultural experience of at least four weeks. Students pursuing a **Bachelor of Science (B.S., B.S.C.E.,**

B.S.Cp.E., B.S.N., B.S.E.E., and B.S.M.E.) degree must complete one of the following:

- A. Pass two years of the same foreign language* in high school; or
- B. Pass the second semester of a college-level foreign language*; or
- C. Live in a non-U.S. cultural immersion experience for at least one school year after the age of 12; or
- D. Complete a global awareness course from the following:
 ANTH-1800 Cultural Anthropology

ARBC-1400 Introduction to Arabic Language and Culture BTPA-2260 World Religions

BUS-3910 International Business

COM-2140 Intercultural Communication

COM-2300 Voices of Diversity

ECON-3380 Economic Development and Political Economy

GEO-3520 World Regional Geography - Eastern

GER-3820 Germanic History and Culture

HIST-3080 History of Russia and Eastern Europe

HIST-3200 History and Politics of Latin America

HIST-3210 History and Politics of East Asia

HIST-3220 History and Politics of the Middle East

HIST-3230 History and Politics of Western Europe

HIST-3750 Social Movements

HLMU-3400 Global Music

INTL-2100 Global Issues

INTL-3650 International Relations

MGMT-3570 International Management

MRKT-4620 International Marketing

NSG-4000 Care of Populations

NSG-4200 Culture and Health

PYCH-1800 Cross-Cultural Psychology

SPAN-3680 History of Hispanics in the U.S.; or

Complete an approved intercultural experience of at least four weeks.

*American Sign Language courses do not satisfy the foreign language component of the global awareness requirement.

A.	PEF-1990 Physical Activity and Healthy Living
	. Science and Mathematics
A. B.	One laboratory course from the biological sciences 3.5 One laboratory course from the physical sciences 3.5
Б.	Any course with a designator of GSCI, ESCI, CHEM, PHYS, or GEOL.
C.	At least three semester hours selected from the following quantitative courses:
	BUS-2150 Statistics for Business
	EDUC-2800 Principles of Mathematics II
	GMTH-1010 Introduction to Mathematics
	GMTH-1030 Precalculus4
	GMTH-1040 Calculus for Business
	GSS-3650 Quantitative Methodology3
	PYCH-2610 Statistics
	SWK-4610 Statistics for Social Workers
D.	Any 3-credit MATH course
ъ.	B.S.C.E., B.S.N., B.S.Cp.E., B.S.E.E., and B.S.M.E.) must
	complete an additional six semester hours. These hours
	must be selected from courses with BIO, CHEM, ESCI,
	GBIO, GSCI, GMTH, MATH, and PHYS designators; decision
	sciences; statistics; or computer application courses selected
	from the following: EGCP-1010 Digital Logic Design
	ITM-2300 Introduction to Programming
	SWK-4620 Social Work Research Methods3
E.	
IX.	Social Sciences and History9 hrs
Α.	GSS-1100 Politics and American Culture
B.	One course in history3
C.	One course selected from the following:
	A second HIST course or
	Any course with a designator of ANTH**, CRJU, GEO, INTL,

VII. Physical Education2 hrs

chology; or ***ECON-2110 Essentials of Economics.

POLS, PUAD, SOC, and SWK or PYCH-1600 General Psy-

Total General Education Requirements.....51-62

Many of these courses also satisfy the requirements for major fields of study.

^{**}ANTH-1800 Cultural Anthropology may satisfy either the humanities elective or the social science elective, but not both.

^{***}Approved social science elective for non-business majors.

Academic Information General Education Course Sequence

General Education Course Sequence

Many of the general education requirements provide important background for advanced courses that are required as a part of a major field of study. Consequently, in most programs many of these requirements are taken in the first two years of the four-year curriculum. The sample four-year curriculum found by each major field of study in the catalog outlines this sequence.

Because of the importance of several of the requirements to all students, the following five courses must be completed before the beginning of the junior year or before a student completes four regular semesters at Cedarville University:

- BTGE-1725 The Bible and the Gospel
- COM-1100 Fundamentals of Speech
- ENG-1400 Composition
- PEF-1990 Physical Activity and Healthy Living
- Quantitative Course Requirement (See the General Education Requirements for Science and Mathematics)

Course Load

Assuming that proficiency requirements have been satisfied, a minimum of 128 semester hours is required for graduation. A student should average at least 16 credit hours each semester to graduate upon completion of the eighth semester. A normal course load is 15–18.5 hours each semester. Students working more than 20 hours per week are advised not to carry a full course of studies.

A student's academic load is subject to reduction or limitation by a school dean, the dean of undergraduate studies, or by the Vice President for Academics for poor scholarship or excessive work outside of school hours. Students who wish to take more than 18.5 credit hours must obtain permission through the following procedure:

To request 19-21.5 credit hours

The following students require advisor approval:

- SENIORS with at least a 2.3 cumulative GPA
- SOPHOMORES and JUNIORS with at least a 2.5 cumulative GPA
- FRESHMEN with at least a 2.7 cumulative GPA
- All students without a Cedarville University GPA who scored at least a 25 or equivalent on the ACT

The following students require department chair or associate/assistant dean approval:

- Any student not meeting the criteria above
- · Any student whose advisor is not available

To request 22 or more credit hours

- All students require approval of advisor, associate/assistant dean or department chair, and dean of undergraduate studies.
 The following situation requires Vice President for Academics approval:
 - · When dean of undergraduate studies is not available

Distance Education

Cedarville University does not offer correspondence credits, and it does not accept correspondence credits from institutions that do not have accreditation from a recognized United States regional accrediting agency. In some unusual circumstances, the University may accept correspondence credits from regionally accredited institutions of higher learning, but a student may not utilize more than 10 semester hours of correspondence credits toward fulfilling degree requirements.

Cedarville University does offer several online learning courses, and it does accept this type of course from institutions that are accredited by a U.S. regional accrediting agency. Distance learning courses are subject to the same policies and restrictions as normal transfer courses.

The University reviews and processes credits received for distance learning and correspondence study in the same manner as transfer credits. For additional information, contact the Office of the Registrar.

Transient Study

Coursework to be completed at other institutions by a student enrolled at Cedarville University must be approved before the course is taken by securing the signatures of the transfer coordinator, the student's academic advisor, and the chair of the academic department governing the course requirement that the transferred course is to satisfy. Transient Study Applications are available in the Office of the Registrar. An official transcript must be received before transfer credit will be evaluated and recorded.

Registration for Courses

Course Numbers and Designations

The course numbers are designed to help students select courses at the appropriate level. The University uses the following system:

- The first number indicates the year in which the course is usually taken. Freshmen and College Now students normally take 1000-level courses; sophomores, 1000-level or 2000-level courses; juniors, 2000-level or 3000-level courses; and seniors, 3000-level or 4000-level courses. College Now Students are limited to 1000-level or 2000-level courses unless approved by dean of undergraduate students. Courses beyond the degree student's classification should be taken with the consent of the instructor and academic advisor.
- The alphabetical prefixes in the course designations indicate content divisions within academic departments.
 For example, the prefix "BTHT" indicates that the course is a theology course in the School of Biblical and Theological Studies.

The semester that the course is offered is shown in the University catalog following the course title as follows: Fa - fall; Sp - spring; and Su - summer. The number to the right of the course title indicates credit given in semester hours. The University reserves the right to offer or withhold any of the courses listed.

Alternate Year Courses

Some departments offer courses on alternate years. These are designated as "even years" or "odd years" based on the first school year number. Example: 2015–16 is an odd year.



Continuing at the University

The University assumes that a student will continue taking courses from semester to semester unless the student graduates, is asked to leave for academic or disciplinary reasons, or withdraws voluntarily. To assist in planning each academic term, the University asks each student to register for the upcoming academic term during early registration. This secures courses for the student and enables the University to make enrollment decisions for that term. A student who owes money to the University may not register for future academic terms.

Enrolled students register for fall semester courses at the end of each spring semester.

A student who does not register by June 1 or make other special arrangements with Student Life will be considered withdrawn. Any student who withdraws voluntarily or is involuntarily withdrawn must apply and be approved for readmission to return as a student to the University. Readmission forms and information are available from Admissions.

Course Registration

Registration dates for each session are listed in the annual academic calendar. Early registration periods may be designated for currently enrolled students. During early registration, the University allows students to register for courses for the upcoming academic term. Students register for courses by academic classification and are strongly encouraged to take advantage of this early registration opportunity, rather than registering after the start of an academic term. Students who register early for a term but do not return the following semester must notify the Office of the Registrar of their change in status.

Registration information, including registration instructions and course schedules for the semester, is prepared by the Office of the Registrar prior to each registration period. Information regarding course offerings and sections is available on the University website.

Prior to processing a registration, each student must complete the financial responsibility agreement. In addition, students have the opportunity to meet with an academic advisor to discuss career direction, course options, and class schedules. While selecting courses, students and advisors should discuss alternative courses as a contingency for course closings and cancellations. Although each student has an academic advisor to help with scheduling, the student is ultimately responsible for the chosen class schedule and course of study. Students should



become very familiar with the course requirements for their chosen major.

Class schedules are selected using the Student Planning registration process on the University website. This online registration process may be completed from the academic advisor's computer or from any other computer through which the student has internet access. Instructions for using the Student Planning registration program are available on the Registrar's website or from the Office of the Registrar.

After the online registration process has been completed, the student's confirmed schedule becomes an active registration in the administrative computer system.

To finalize their registration, students must make financial arrangements for payment of the amount due listed on their billing invoice (see the financial section of the catalog for information concerning costs and payment plans).

Undergraduates in Graduate Courses

Students in undergraduate programs at Cedarville University who are interested in taking graduate coursework prior to graduation may be eligible to do so with appropriate approvals. Individual graduate programs have the ability to allow or prevent this practice. In some cases credits may count as electives in the undergraduate program as well as meeting requirements of a graduate degree. The requirements and procedures for granting graduate credit to undergraduates are as follows:

The undergraduate student:

- Must have achieved senior standing at the undergraduate level prior to taking graduate courses.
- Must have a cumulative undergraduate GPA of 3.00 or higher to take graduate coursework.
- Must meet all prerequisites for the graduate course(s) for which they intend to register.
- Must obtain the following approvals prior to registering for the graduate course:
 - · the undergraduate advisor,
 - · the chair/dean of the undergraduate program, and
 - the director of the graduate program

The maximum number of graduate courses that an undergraduate student may take shall be determined by each graduate program. In any case, the maximum may not reduce the remaining graduate credits in the program to fewer that 30 credit hours.

The approval form for this process may be obtained from the Office of the Registrar or from the office of the appropriate graduate program. The GPA requirement may be overridden by permission of both the Dean of Graduate Studies and the program director.

Tuition for undergraduate students taking graduate courses will be charged at the higher of the undergraduate or graduate rates. Graduate credits may be included within a student's undergraduate block pricing, but the student may have additional charges if the graduate tuition is higher than the block rate.

The University reserves the right to limit the number of undergraduate enrollments allowed within any given graduate section.

Auditing

Auditing involves attending and participating in a course without earning credit. A course may be changed from credit to audit before the end of the first full week of the semester. Courses may be changed from audit to credit, with permission of the instructor, before the end of the first full week of the semester. A student may not test out of a course already audited. Registration to audit a course will not be processed until the first day of the semester to accommodate students requiring regular registration status.

Adding and Withdrawing From a Course

Students are responsible to verify the accuracy of their course registration at the beginning of each semester. All registrations must be finalized by the end of the second week of the semester. No courses may be added after this time unless approval is granted from the course instructor, and the associate/assistant dean or chair of the department that offers the course. In the absence of the associate/assistant dean or department chair, the dean of the school or the dean of undergraduate studies may approve a late registration. A late registration fee of \$50 will be charged to process a registration or add a course after the deadline.

Changes in a student's course schedule must be made through the drop/add process. This may be completed online within three calendar days after courses begin. After this time, a drop/add form is required to complete a schedule change. Forms for course changes are available in the Office of the Registrar and must be signed by both the course instructor and the student's academic advisor. The student is required to make up any work missed due to late entrance. Changes in a schedule caused by cancellation of courses will not result in financial penalty.

When a course is dropped, the action is recorded as follows: Action:

Date of	Change
---------	--------

16-Week and 14-week Classes

Through the first full calendar week

Second full calendar week through

end of the ninth calendar week During the 10th and 11th

calendar weeks

or

12th week through the end of the semester

12-Week Classes

Through the sixth weekday from

start of class

Seventh weekday from start of class

through end of the Seventh calendar week

During the eighth and ninth

calendar weeks

٥r

10th calendar week 12 through the end of the course

8-Week Classes

Through the sixth weekday from

Seventh weekday from start of class through end of the fourth calendar week

During the fifth calendar week

Sixth calendar week through

the end of the course

4-Week Classes

Through the second weekday from start of class

Third weekday from start of class through 10th weekday from start of class

11th weekday from start of class through 14th weekday from start of class

or

15th weekday from start of class through the end of the course

3-Week Classes (or less) Through the second weekday from start of class

Third weekday from start of class through fifth weekday from start of class

Sixth weekday from start of class through the end of the course

No Record on transcript

Drops not permitted

W - Withdrawn

Drops not permitted

All Other Classes

10% from start of class

11% from start of class through 50% from start of class

51% from start of class through the end of the course

No Record on transcript

W - Withdrawn

Drops not permitted

Note: A weekday is defined as Monday through Friday. A day ends at 5 p.m., eastern time.

Course changes are complete when the Office of the Registrar receives the completed drop/add form. The effective date of the course change is the date the Office of the Registrar receives the completed form. Failure to properly drop a course will result in a grade of "Z", which counts the same as an "F".

Refund information is listed in the financial information section of the catalog. This information is also available on the Registrar's webpage.

Independent Study

Independent study allows students to develop a high degree of independence in their ability to choose and investigate problems. The objectives of the program include providing opportunities to explore areas not covered in normal course structure, recognizing foreign travel experiences, rewarding self-motivated students, and encouraging joint study by faculty and students on specialized projects.

Individual students and faculty members develop the specific criteria that must be met for the successful completion of specific independent study projects. However, the following guidelines govern the independent study program:

- Only one independent study project may be undertaken in an academic term, unless permission is granted from the department chair or the associate/assistant dean of the school of the student's primary major.
- The maximum credit that may be earned for an independent study project is three semester hours.
- The faculty member supervising the independent study, the student's advisor, and the associate/assistant dean or the department chair must sign the student's independent study form. Registration for the independent study must occur at the beginning of the semester in which the work is to be completed.
- No more than six semester hours in independent study may be counted toward the major field, no more than three semester hours toward a minor field, and no more than 12 semester hours toward graduation. Independent study taken outside major and/or minor fields must be approved by the associate/assistant dean or the department chair of the supervising faculty member.
- Supervising an independent study is a privilege a faculty member may extend to a student. It is not a right that a student has.
- Supervising faculty members determine the grade (letter grade or credit/no credit) for the independent study.

Drops not permitted No Record on transcript W - Withdrawn

No Record on transcript

WP-Withdrawn Passing

WF-Withdrawn Failing

W - Withdrawn

WP-Withdrawn Passing WF-Withdrawn Failing

Drops not permitted

start of class No Record on transcript

> W - Withdrawn WP-Withdrawn Passing WF-Withdrawn Failing

Drops not permitted

No Record on transcript

W - Withdrawn

WP-Withdrawn Passing WF-Withdrawn Failing

Internships

Many of the major fields of study include opportunities to receive credit for supervised, on-the-job activities. Interested students should contact the respective department for details.

Out-of-Class Courses

In order for students with irreconcilable conflicts to be able to complete graduation requirements on schedule, it is sometimes necessary to allow instruction in an out-of-class setting. To take a course out of class:

- 1. The course must be 2000-, 3000-, or 4000-level.
- Students must obtain approval from the associate/assistant dean of the school or the department chair, the faculty member teaching the course, and the advisor.

Out-of-class course approval forms are available in the Office of the Registrar. Exceptions to the course level requirement listed above must be approved by the respective faculty member, advisor, and the associate/assistant dean of the school or department chair.

Grading System

- A Recognizes excellent achievement. It is indicative of superior quality work and reveals a thorough mastery of the subject matter. The student receiving this grade should demonstrate enough interest to do some independent investigation beyond the actual course requirements.
- B Indicates work and achievement that are well above average. The student receiving this grade should be capable of doing advanced work in this field. The quality of the work should be considered better than that achieved by the average student.
- C Indicates average achievement and a satisfactory meeting of requirements.
- D Reveals inferior accomplishment and is generally unsatisfactory from the standpoint of course requirements. This is the lowest grade for which credit can be earned.
- **F** Failing grade. It indicates very unsatisfactory work. No course credit is earned.
- **AU** Given when a course is audited. To receive this notation, the student must attend and participate in the course. No credit is earned.
- CR Given when credit has been granted. It also applies to the credit/no credit program in which credit is received for satisfactory ("C" average or higher) performance in the course. A course in which a CR has been earned counts toward the total graduation requirements but is not used in the computation of GPAs.
- **CE** Credit for the course has been earned by an examination administered by the University or another recognized testing agency or program.
- Signifies an incomplete and is a temporary grade given when a student is unable to complete the coursework on time because of extraordinary circumstances, such as illness, emergency, or other reasonable cause. This temporary grade does not influence the student's GPA. To be considered for an incomplete, the student must be passing the course and have completed the majority of the coursework. The instructor giving the incomplete will establish an appropriate completion date with the student. This date may extend to the end of the semester following the one in which the course was taken. If the work is not completed by the designated date, the "I" will be changed to an "F" and will be calculated as such in the student's GPA.

- INC Indicates a permanent incomplete, a grade assigned in special situations by the faculty member with the approval of the Vice President for Academics. This permanent grade does not influence the student's GPA. To receive a permanent incomplete, the faculty member should submit the appropriate form to the Registrar identifying the circumstances warranting this special grade. If a permanent incomplete is awarded, the grade may not be changed at a future date. To receive credit for the course, the student must again register for the course and complete the course requirements.
- K Signifies credit and accompanies courses transferred from other colleges or universities. It has no effect upon cumulative GPA
- NC Indicates no credit has been earned. Credit hours for which an "NC" has been earned are not used in the computation of GPAs.
- NP Indicates that the student did not pass a course where the credits do not count toward the graduation requirements.Basic English and Intermediate Algebra are examples of such courses.
- **NR** Indicates that the faculty member did not submit the grade in time for it to appear on the grade card.
- P Indicates that the student performed satisfactory work ("C-" average or better) in a course where the credits do not count toward graduation, such as Basic English or Intermediate Algebra.
- **W** Indicates that the student withdrew from the course between the second and ninth weeks of the semester.
- **WP** Indicates that the student is passing when a course is dropped during the 10th and 11th weeks of the semester.
- **WF** Used during the 10th and 11th weeks of the semester if the student is failing at the time of withdrawal.
- **Z** Indicates that the student did not complete the course but did not officially withdraw. A "Z" is treated in the same manner as an "F" grade when figuring the GPA.

Credit/No Credit Program

The grade designation "credit/no credit" may be assigned by faculty members in courses such as student teaching, laboratories, independent studies, electives, and one-hour courses in physical education and music. The opportunity to take elective courses on a credit/no credit (CR/NC) basis offers students the opportunity to develop background in new areas of study without threatening cumulative GPAs.

The following guidelines govern involvement in the program:

- A student of any classification may choose to earn credit/ no credit or a letter grade in one semester hour, non-major physical education courses. This choice may be made at the end of the semester.
- To earn credit, a student must maintain an average of "C" or better in the course.
- A student must be at least a junior in classification (have earned at least 61 semester hours) to take an elective course on a credit/no credit basis. An elective is a course that will not count toward the student's general education, major, minor, or cognate requirements.
- A student may take just one elective course per term under the credit/no credit designation.

- The total number of courses (other than one-hour physical education courses) that may be taken under the credit/no credit designation is determined by the student's cumulative GPA:
 - 2.0-2.49 one course
 - 2.5-2.99 two courses
 - 3.0-3.49 four courses
 - 3.5 and above six courses
- A student taking an elective course who wishes to change from the credit/no credit designation to the regular grading designation must do so before the end of the fourth week of the semester.
- A student who wishes to change an elective course to the credit/no credit designation must do so before the end of the first full calendar week of the semester.

Grade Points and Point Averages

Cedarville University uses the "four-point system" to determine academic averages. Grade points are awarded as follows:

cademic averages. Grade points are a			
Grade	Grade Points		
Α	4.0		
A-	3.7		
B+	3.3		
В	3.0		
B-	2.7		
C+	2.3		
С	2.0		
C-	1.7		
D+	1.3		
D	1.0		
D-	0.7		
F	0.0		

The GPA is computed by dividing the total grade points earned by the total hours attempted. Grades are issued at the end of each semester. The student is responsible for discussing their academic achievement with their instructor.





Grade Appeal Process

A student who believes that a grade received is incorrectly recorded, inaccurate, unfairly awarded, or based on criteria different than that applied to other students in the same class may initiate a grade appeal. The process for grade appeals is available on the website of the Vice President for Academics (**cedarville. edu/vpa**) using the "Policies" link from that page. Students may also obtain the same information directly from the office of the Vice President for Academics.

Petitions and Student Complaints

Student complaints about any aspect of an undergraduate program or requests for exceptions to an academic regulation should first be discussed with the appropriate office, faculty member, dean or department chair. If those discussions fail to resolve the complaint, a written request must be initiated by the student and must be submitted to the Dean of Undergraduate Studies.

Academic Progress, Warning, and Suspension

To satisfy the minimum graduation requirements, a student must earn a cumulative GPA of 2.0. The minimum cumulative GPA needed to maintain good academic standing is also 2.0.

The University recognizes that some students may have difficulty earning and/or maintaining the minimum cumulative GPA required for good standing and for graduation. To assist them, the following academic progress chart outlines the minimum cumulative GPAs needed according to the credit hours earned.

Academic Progress Chart

Credits Attempted	Minimum Cumulative GPA for Academic Probation	Minimum Cumulative GPA for Academic Warning
0-18.99	1.00	1.45
19-36.99	1.25	1.60
37-64.99	1.50	1.75
65-96.99	1.75	1.90
97-112.99	1.90	_
113-128.99	1.95	

Some academic programs have stricter academic progress requirements than those listed above. Students should check academic department sections of the catalog for the specific grade point requirements of their majors.

Students who are not in good academic standing will be notified by the dean of their school or the dean of undergraduate studies. First-semester freshmen who do not meet the 1.0 average will usually not be academically suspended in order to provide some additional time for them to make the adjustment to college life.

Any student who does not meet the minimum cumulative GPA required for academic probation will be suspended for at least one semester. Any student on academic probation for two successive semesters who is not making satisfactory academic progress is subject to academic suspension. Any student whose term GPA is not above 1.0 for two successive semesters and who is not making satisfactory academic progress is subject to suspension. The school dean or dean of undergraduate studies may make exceptions to the academic progress guidelines when appropriate.

A student receiving veterans benefits who is on academic probation for two successive semesters without making satisfactory progress will be reported to the Veterans Administration. The veterans benefits for such a student will be terminated unless the student is making progress toward meeting the minimum academic requirements for graduation.

Faculty members and other counselors are available to discuss student progress. The student experiencing academic difficulty should utilize these personnel, as well as resources available in the academic assistance center, to help find solutions to academic problems.

Students on academic warning or probation may be required to take a special study skills course as a condition for continuing at the University. Academic warning may preclude involvement in certain University activities. Students facing academic warning or probation should consult with the coaches, advisors, or directors of their activities to learn of academic requirements or restrictions that may apply to those activities.

A student must maintain satisfactory academic progress to receive financial aid. Students receiving aid should check the financial aid section of the catalog to obtain the academic progress requirements that pertain to particular aid programs.

A student suspended for academic reasons may apply for readmission during any semester in the regular academic year following the semester of suspension. A student who is subject to suspension for a second time may be permanently dismissed.

Repeating Courses

While adjusting to academic life at Cedarville, some new students earn grades they consider to be unsatisfactory. Consequently, any first year freshmen students who earn an unsatisfactory grade in their first two regular semesters of enrollment may repeat the course at Cedarville University before the end of their fourth consecutive semester of enrollment. Under this freshman repeat policy, the cumulative GPA will be recalculated using the second grade instead of the first, even if the second grade is lower.

A similar policy applies to a transfer student. Under the transfer repeat policy, courses taken during the first semester of attendance may be repeated within the succeeding two regular semesters. The cumulative GPA will be recalculated using the second grade instead of the first.

Under these repeat policies, any course may be repeated. Although the first grade is no longer calculated into the cumulative GPA, the course and grade information does remain on the student's transcript. In all other cases when a student repeats a course, both grades are calculated into the cumulative GPA. However, credit hours for a repeated course may count only once toward the credits needed for graduation.

Academic Integrity

Honesty and integrity are marks of Christian character. One way students live out this commitment to excellence is by adhering to very high standards of academic integrity. Cedarville's academic integrity policy and pledge encourage honesty from students and provide an atmosphere of accountability.

The Academic Integrity Pledge is a commitment to live with integrity in all areas of life, including the classroom. All forms of academic dishonesty violate this pledge and could result in dismissal from this community. All students at Cedarville pledge the following: With my pledge to affirm the Cedarville Covenant, I attest that all work I submit in person, online, or in any other format as my own is my own work and is in accordance with the standards of the Academic Integrity Policy. As a member of the community, I will love God and others, live with integrity, and pursue excellence in all that I do.

Failure to act with academic integrity includes, but is not limited to, the following:

- · Cheating on examinations or quizzes
- Plagiarism
- Knowingly furnishing false information by forgery, alteration, or misuse of documents, records, or identification within the course activities, requirements, or responsibilities
- Knowingly providing correct information to another student concerning exams and other future individual work is a violation of academic integrity. This includes, but is not limited to, questions to be asked on exams or answers for questions that will be asked
- · Representing another's work as one's own

Typical penalties assigned by faculty for a lack of academic integrity include, but are not limited to, the following:

- Reducing the letter grade for the work involved
- · Reducing the letter grade for the course
- · Giving a failing grade for all work involved
- · Giving a failing grade for the course

The assignment of penalties for lack of academic integrity shall be at the discretion of the faculty member of record for the course in consultation with the chair or dean of the faculty member's academic unit. All cases of academic dishonesty shall be reported to the office of the Vice President for Academics in writing within six (6) instructional days of the resolution of the incident.

Any student involved in academic dishonesty may be subject to suspension or dismissal.

The procedure and process for appeals of decisions related to academic misconduct is available on the website of the Vice President for Academics (**cedarville.edu/vpa**) using the "Policies" link from that page. Students may also obtain the same information directly from the office of the Vice President for Academics.



Academic Honors

Dean's Honor List

Until final awards are announced at commencement, the highest academic honor possible to attain at Cedarville University is to be included on the dean's honor list. This list of high-ranking students is published at the end of each regular semester. Lists are not published following the summer sessions.

The requirements for the dean's honor list are as follows:

- 1. A student must have a 3.75 GPA or higher for the semester.
- A student must have no grade for the semester lower than a "B."
- A student must carry a minimum of 12 semester hours, excluding CR hours. Exceptions are made for those enrolled in field experiences or internships granting credit/ no credit, provided they take at least two regularly graded courses.
- A student must complete every course being taken by the end of the semester when grades are turned in by the faculty.

Dean's List

Published at the end of each regular semester, the dean's list is issued with the following requirements:

- 1. A student must maintain a 3.50 average for the semester.
- A student must be carrying at least 12 semester hours, excluding CR hours. Exceptions are made for those enrolled in field experiences or internships granting credit/ no credit, provided they take at least two regularly graded courses.
- A student must complete every course being taken by the end of the semester when grades are turned in by the faculty.

Graduation with Honors

Upon recommendation of the faculty, a student who earns a GPA of at least 3.5 will graduate "with honor"; one who earns a GPA of at least 3.75 will graduate "with high honor"; and one who earns a GPA of at least 3.9 will graduate "with highest honor." Graduation honors are determined on the basis of the actual cumulative grade point average without rounding. A student must be in residence at least two full years (61 semester hours) to qualify for graduation with honors. Hours earned by examination (test-out) do not count as hours in residence toward graduation with honors. The cumulative GPA at the end of the fall semester prior to spring commencement is used to determine recognition for graduation with honors at commencement. However, actual



graduation with honors, as recorded on the final transcript, includes grades from all subsequent academic terms required to complete degree requirements.

Additional Academic Awards

Two prestigious awards are given to selected graduates each year during commencement. These awards are listed below: *The Faculty Scholarship Trophy*

This award is given to graduating senior(s) with a cumulative grade point average of 4.0. Eligibility must include 90 semester hours taken at Cedarville University completed within six regular semesters.

The President's Trophy

This award is given to a graduating senior on the basis of scholastic ability, character, leadership, and sportsmanship.

Withdrawing From the University

Proper withdrawal from the University begins in the Office of the Registrar, where the student completes an official withdrawal form. Refund requests should be submitted to the Cashiers Office after the official withdraw process has been completed, and all appropriate adjustments to the student's registration has been completed. A student's ID card and residence hall key must be returned to the Office of the Registrar on the last day the student is on campus. No student should leave Cedarville University without completing proper withdrawal through the Office of the Registrar.

Student transcripts will be marked with the appropriate grade once withdrawal is complete in accordance with the established University policy. (See Adding and Withdrawing From a Course.)

Withdrawal for Military Reasons

Students serving in reserve units of the armed forces may be called up to active duty during an academic term. Students who withdraw up to the end of the fourth week of the semester will receive refunds according to the following schedule:

Tuition: 100 percent

Room: prorated on a per diem basis Board: prorated on a per diem basis

Fees: 0

Students who withdraw after the fourth week of the semester may file a request for "permanent incomplete." This classification provides students the opportunity to complete the coursework upon returning to the University without having to pay tuition again. Forms may be picked up in the Office of the Registrar.

Approval for the awarding and removal of the entry "permanent incomplete" resides with the Vice President for Academics. Refunds for room, board, and fees will be disbursed according to the previously mentioned schedule.

To initiate the withdrawal procedure, students are to bring a copy of their orders to the Office of the Registrar and obtain the appropriate forms. Withdrawals will be processed according to the standard procedures listed in the University catalog.

Family Educational Rights and Privacy Act

Cedarville University complies with the Family Educational Rights and Privacy Act (the Buckley Amendment), which is designed to protect the privacy of educational records, to establish the right of students to inspect and review their records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. The University has adopted a policy that explains in detail the procedures followed for compliance with provisions of the act. Copies of the policy are available in the Office of the Registrar and Student Life.

Academic Information Academic Leadership







Academic Leadership

Thomas Mach, Vice President for Academics and Chief Academic Officer

Randall L. McKinion, Assistant Vice President for Academics Pamela Diehl Johnson, Dean of Undergraduate Studies Janice Supplee, Dean of Graduate Studies, Vice President for Marketing and Communications

Deans and Chairs

School of Allied Health

Evan Hellwig, *Dean;* Professor of Athletic Training; Certified Athletic Trainer (BOC); licensed physical therapist

Department of Art, Design, and Theatre

Aaron Huffman, Chair; Assistant Professor of Graphic Design

School of Biblical and Theological Studies

Trent Rogers, *Interim Chair;* Assistant Professor of New Testament and Greek

School of Business Administration

Jeffrey Haymond, Dean; Associate Professor of Economics

Department of Communication

Derrick Green, *Chair*; Assistant Professor of Communication; Director of Forensics

School of Education

Kevin Jones, Sr., Dean; Assistant Professor of Education

School of Engineering and Computer Science

Robert Chasnov, Dean; Senior Professor of Engineering

Department of English, Literature, and Modern Languages

Annis Shaver, Interim Chair; Professor of German and Applied
Linguistics

Department of History and Government Mark C. Smith, Chair; Professor of History

Department of Music and Worship

Beth Cram Porter, Chair; Associate Professor of Vocal Music

School of Nursing

Angelia Mickle, Dean; Associate Professor of Nursing

School of Pharmacy

Aleda Chen, *Interim Dean;* Associate Professor of Pharmacy Practice

Department of Psychology

Luke Tse, Chair; Professor of Psychology

Department of Science and Mathematics

Mark McClain, Chair; Senior Professor of Chemistry

Department of Social Work

Michael E. Sherr, Chair; Senior Professor of Social Work



Academic Schools and Departments











School of Allied Health	35
Department of Art, Design, and Theatre	45
School of Biblical and Theological Studies	56
School of Business Administration	71
Department of Communication	92
School of Education	102
School of Engineering and Computer Science	111
Department of English, Literature, and Modern Langua	ges.123
Department of History and Government	
Interdisciplinary Studies	150
Department of Music and Worship	155
School of Nursing	173
School of Pharmacy	181
Department of Psychology	186
Department of Science and Mathematics	192
Department of Social Work	217



School of Allied Health

Mission Statement	36
Preparation	36
Department Requirements	36
Program Requirements	38
Cocurricular Opportunities	36
Career Opportunities	36
Faculty	36
Athletic Training Mission Statement	37
Personal Requirements	37
Program Requirements	38

Maj	jors	
>>	Allied Health — Bachelor of Science	40
>>	Exercise Science — Bachelor of	
	Science	41
>>	Sport Medicine — Bachelor of Science	42
>>	Combined B.S./M.A.T. Program	42
>>	Physical Education — Multi-Age	43
>>	Multi-Age Health and Physical	
	Education	44
Patl	hways to a Graduate Degree	
>>	Graduate Program Pathway Option	
	for Exercise Science — Bachelor of	
	Science	41
Sch	nool of Allied Health	
	Course Descriptions	224

Mission Statement

The Cedarville University School of Allied Health seeks to equip stewards to be competent, Christ-honoring professionals in healthcare and education.

Preparation

Students planning to pursue a major within the School of Allied Health are best prepared in high school by taking a college preparatory curriculum. Students planning to pursue a multiage physical education major should take as many physical education courses as possible. Those considering majors in allied health, exercise science, and sport medicine should take biology, chemistry, physics, and mathematics courses at least through algebra II.

Department Requirements

Multi-Age health and physical education and multi-age physical education majors have courses in their respective curricula that have motor skill performance proficiencies. While meeting the proficiency standards is not required to receive a passing grade in all classes, satisfactory completion of all of the proficiencies is a degree requirement. See page 103 for the School of Education admission and retention requirements for multi-age physical education and multi-age health education.

Programs of Study

The School of Allied Health offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Physical Education Multi-Age (certification for teaching pre-K to 12)
- Multi-Age Health and Physical Education

Bachelor of Science (B.S.) in:

- · Allied Health
- Exercise Science
- · Sport Medicine

Cocurricular Opportunities

The School of Allied Health has several opportunities for students to increase their professional skills and awareness by being involved in the following Cedarville University approved organizations:

- Allied health majors Allied Health Student Organization
- Exercise science majors Health and Fitness Association
- Multi-age health and physical education major Pi Epsilon Omega (Physical Education Organization)

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Careers pursued by graduates include:

- · Administrator of youth activities and youth organizations
- · Athletic director
- Athletic trainer
- · Cardiac rehab
- Clinical exercise physiologist
- Coach
- Corporate wellness director
- Exercise specialist
- Fitness and recreation management
- Health teacher (pre-K to 12)
- Personal trainer
- Physical education teacher (pre-K to 12)
- · Physical therapist/occupational therapist
- Physician assistant
- Strength and conditioning

Faculty

Evan Hellwig, *Dean*; Professor of Athletic Training; Certified Athletic Trainer (BOC); licensed physical therapist. *Education:* B.S., Mankato State University, 1984; Physical Therapy Certificate, University of Iowa School of Medicine, 1986; Ph.D., University of Virginia, 1992. At Cedarville 1986–89 and since 1992.

Teresa Clark, Assistant to the Dean. Associate Professor of Kinesiology, Education: B.A., Cedarville University, 1975; M.S., Indiana University, 1986. At Cedarville since 1996.

Jason Grahame, Associate Professor and Founding Program Director of Applicant Physician Assistant Programs. *Education:* B.A., Cedarville University, 1999; M.P.A. Eastern Virginia Medical School, 2003. At Cedarville since 2020.

Kenneth Blood, Associate Professor of Athletic Training, Clicinal Education Coordinator. *Education:* B.S., Marietta College, 1980; M.S., Ohio University, 1989. At Cedarville since 2020.

April Crommett, Associate Professor of Exercise Science, Joint Assistant Professor in the School of Pharmacy. *Education:* B.S., Mississippi State University, 1991; M.S., Memphis State University, 1993; Ph.D., The University of Mississippi, 2000. ACSM Certified Health Fitness Instructor. At Cedarville since 2003.

Misti Grimson, Assistant Professor and Medical Director of Applicant Physician Assistant Program. *Education:* B.S., Mount Vernon Nazarene College, 1996; M.D., Wright State University School of Medicine, 2000. At Cedarville since 2020.

Pamela Diehl Johnson, Dean of Undergraduate Studies. Senior Professor of Kinesiology. Education: B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

L. Delyte Morris, Professor of Allied Health; Licensed Physician Assistant; Coach, women's tennis. *Education:* B.S., Geneva College, 1959; M.S., Indiana University, 1960; P.E.D., Indiana University, 1966; A.S., Kettering College of Medical Arts, 1979. At Cedarville since 1998.

David Peterson, Assistant Professor of Kinesiology. *Education:* B.S., Truman State University, 1995; M.Ed., University of Louisiana at Monroe, 1997; Ed.D., United States Sports Academy, 2014. At Cedarville since 2018.

Elizabeth Sled, Associate Professor of Kinesiology. Education: B.S.c.P.T., Queens University, 1990; M.S.C., Ohio State University, 1996; Ph.D., Queens University, 2008. At Cedarville since 2012. Michael Weller, Associate Professor of Athletic Training; Certified Athletic Trainer (BOC); ATEP Program Director. Education: B.A., Capital University, 1995; M.S., Ohio University, 1997. At Cedarville since 2010.

Clinical Faculty

Kenneth Blood, Associate Professor of Athletic Training; Certified Athletic Trainer (BOC), ATEP Clinical Education Coordinator. *Education:* B.S., Marietta College, 1980; M.S., Ohio University, 1989. At Cedarville since 2020.



School of Allied Health Athletic Training Mission Statement

Emeriti

Donald Callan, Professor Emeritus of Exercise and Sport Science; Founder, Missions Involvement Services (MIS); NAIA Hall of Fame, 1990. *Education:* B.S., Taylor University, 1955; M.A., Ball State Teachers College, 1960; Ph.D., The Ohio State University, 1968. At Cedarville since 1960.

Kathleen (Freese) Peabody, Associate Professor Emerita of Kinesiology. *Education:* B.S., Bowling Green State University, 1971; M.Ed., Bowling Green State University, 1981. At Cedarville since 1991.

John McGillivray, Associate Professor Emeritus of Kinesiology; NAIA Hall of Fame, 1993. *Education:* B.S., Cedarville University, 1970; graduate study, Wright State University, 1972–74; M.S., University of Dayton, 1976. At Cedarville since 1974.

Athletic Training Mission Statement

The mission of the Čedarville University Athletic Training Education Program (ATEP) is to advance the Kingdom of Christ by preparing entry-level athletic trainers, through diverse learning experiences, to practice competently and professionally throughout the world.

This is to be accomplished through an educational program that practices the skills associated with the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities.

Students will be able to:

- Provide quality healthcare including prevention, diagnosis, and intervention to patients and clients who participate in physical activity.
- Utilize therapeutic techniques and equipment safely, appropriately, and effectively.
- Instruct patients and clients in areas of prevention, stewardship, and convalescence.
- Implement organizational skills to manage an athletic training facility.
- · Locate, interpret, and implement athletic training research.
- Conduct themselves professionally with Christlike characteristics.

The athletic training major prepares students for a career as a Certified Athletic Trainer (or ATC), which is the official credential awarded when students successfully pass the certification exam administered by the BOC. Cedarville's athletic training program meets the requirements set forth by the National Athletic Trainers' Association (NATA) and the Commission on Accreditation of Athletic Training Education (CAATE).



Personal Requirements

Athletic training requires a significant level of scientific and clinical preparation. Prospective athletic training students are encouraged to take college preparatory courses in high school, including biology, chemistry, physics, and advanced math. An ACT composite score of 24 (or SAT composite of 1100) or higher is highly recommended.

Typically, the student who is interested in athletic training as a potential career has a history of being involved in athletics personally and may even wish to pursue participating in athletics at the collegiate level. Students need to be aware that the (ATEP) depends on the varsity athletic program at Cedarville as well as high schools, colleges, and clinics in the community to provide the primary "laboratory" experiences for the clinical education component of the program. Therefore, attempting to participate in varsity athletics while simultaneously pursuing the athletic training major may prove to be a significant conflict of interest.

Students are, however, expected to model appropriate stewardship of their physical bodies by being involved in a consistent program of regular exercise and activity.



School of Allied Health Program Requirements

Program Requirements Admission and Retention

Athletic Training clinical education is a labor-intensive product to deliver. Because there is a finite number of quality sports medicine opportunities available on campus, the ATEP limits each academic class to no more than 12 students each (i.e., 12 seniors, 12 juniors, and 12 sophomores). There is currently no limit to how many freshmen may declare Athletic Training as their major, but if more than 12 students desire to continue as Athletic Training majors beyond the freshman year, the competitive admission process is enforced. Transfer students are considered on an individual basis but are only eligible to be admitted directly into the ATEP if: 1) there is space available in their graduating class and 2) they have met all the admission criteria. Anyone thinking about transferring to Cedarville for the purpose of being an Athletic Training major should contact the program director as early in the process as possible. Admission criteria include:

- 1. Cumulative GPA of 2.5 or higher
- Completion of college-level biology courses with a grade of "C-" or higher
- 3. Completion of college-level first aid and basic Athletic Training courses with a grade of "B-" or higher
- Completion of at least 150 clinical hours in the Cedarville University Athletic Training Facility
- 5. Satisfactory physical exam
- 6. Hepatitis B vaccine or signed declination
- Signed acceptance of technical standards, available at cedarville.edu/athletictraining
- 8. Current certification in cardiopulmonary resuscitation (CPR) including AED

Retention criteria include:

- Earning a grade of "C-" or higher in all Athletic Training courses
- 2. Maintaining a cumulative GPA of 2.50 or higher
- 3. Maintaining current CPR/AED certification
- Successfully completing clinical proficiencies established for each term
- Positive recommendation by the faculty/clinical instructors of the ATEP

Graduation requirements include:

- Earning a grade of "C-" or higher in all Athletic Training courses
- 2. Member of the NATA
- 3. Successful completion of all clinical proficiencies
- 4. Meeting University requirements for graduation

Students are encouraged to combine the Athletic Training major with another program of study depending upon their career objectives. Possible options include a business minor for those planning to be employed in the sports medicine clinic setting, or a teaching certificate for those planning to be employed in the high school setting, and exercise science or biology electives for those pursuing graduate education or employment in higher education. Students need to be aware that preparing to be a marketable athletic trainer may require more than the traditional four years of college.





School of Allied Health Athletic Training — program in teach-out status

Athletic Training — program in teach-out status

Clinical Requirements

The clinical experience is an integral part of the ATEP. Accreditation standards require that the clinical education component of the curriculum be at least two full years in duration. Athletic training majors need to be routinely available during typical practice and game times in order to fulfill the clinical education requirements. Freshmen will need to accumulate at least 150 hours of observational time in the athletic training facility in order to be eligible for admission into the ATEP. Sophomores will be scheduled to work (approximately eight-10 hours per week) with one of the on-campus Certified Athletic Trainers to expose them to collegiate athletic training services. The junior and senior years are devoted to completing extensive clinical assignments, including working under the supervision of a certified athletic trainer with a lower extremity sport, an upper extremity sport, an equipment intensive sport such as football, and a general medical clinical education rotation. Upperclassmen can anticipate working 12-20 hours per week. Students majoring in athletic training are not encouraged to participate in intercollegiate athletics.

Course requirements involve 72.5 semester hours including:	
ATRN-1300 Emergency Care	
ATRN-1500 Introduction to Athletic Training	1
ATRN-1550 Basic Athletic Training	3
ATRN-2560 Lower Body Injury Management	3
ATRN-2570 Upper Body Injury Management	3
ATRN-2650 Therapeutic Exercise	
ATRN-2901 Clinical I	2
ATRN-2902 Clinical II	2
ATRN-3550 Organization and Administration in Athletic	
Training	
ATRN-3660 Therapeutic Modalities	3
ATRN 3770 Pharmacology	
ATRN-3903 Clinical III	2
ATRN-3904 Clinical IV	
ATRN-4560 General Medical Issues	
ATRN-4905 Clinical V	
*ATRN-4906 Clinical VI	
ESS-3800 Sport Psychology	
ESS-3900 Physiology of Exercise	
ESS-3940 Structural Kinesiology	
ESSE-3100 Strength and Conditioning	
EXSC-4600 Research Methods	3
GBIO-1000 Principles of Biology	
GBIO-2010 Human Anatomy and Physiology I	
GBIO-2015 Human Anatomy and Physiology II	
MAHE-3030 Nutrition	
PYCH-1600 General Psychology	3
*Capstone Course	

Athletic Training Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	44.5–52.5
Athletic Training Major Requirements	
Electives	3–11
Total (minimum, not including proficie	encv)128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Athletic Training

First year:	
ATRN-1300 Emergency Care3	
ATRN-1500 Introduction to Athletic Training1	
ATRN-1550 Basic Athletic Training3	
BTGE-1725 The Bible and the Gospel	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
GBIO-2010 Human Anatomy and Physiology I4	
GMTH-1020 College Algebra	
PEF-1990 Physical Activity and the Christian Life2	
PYCH-1600 General Psychology3	
Total31.5	
Second year:	
ATRN-2560 Lower Body Injury Management3	
ATRN 0570 Upper Body Injury Management	
ATRN-2570 Upper Body Injury Management	
ATRN-2650 Therapeutic Exercise	
ATRN-2901 Clinical I2	
ATRN-2902 Clinical II2	
BTGE-2730 Old Testament Literature3	
BTGE-2740 New Testament Literature3	
ESS-3800 Sport Psychology3	
ESS-3900 Physiology of Exercise	
ESS-3940 Structural Kinesiology3	
GBIO-2015 Human Anatomy and Physiology II4	
Total	
10tal	
Third year:	
Third year: ATRN-3550 Organization and Administration in Athletic Training3	
Third year: ATRN-3550 Organization and Administration in Athletic Training3 ATRN-3660 Therapeutic Modalities	
Third year: ATRN-3550 Organization and Administration in Athletic Training3	
Third year: ATRN-3550 Organization and Administration in Athletic Training3 ATRN-3660 Therapeutic Modalities	
Third year: ATRN-3550 Organization and Administration in Athletic Training3 ATRN-3660 Therapeutic Modalities	
Third year: ATRN-3550 Organization and Administration in Athletic Training3 ATRN-3660 Therapeutic Modalities	
Third year: ATRN-3550 Organization and Administration in Athletic Training3 ATRN-3660 Therapeutic Modalities	
Third year: ATRN-3550 Organization and Administration in Athletic Training	
Third year: ATRN-3550 Organization and Administration in Athletic Training	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .31 Fourth year:	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .31 Fourth year:	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 Fourth year: ATRN-4560 General Medical Issues .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .31 Fourth year: ATRN-4560 General Medical Issues .3 ATRN-4905 Clinical V .2	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 ATRN-4560 General Medical Issues .3 ATRN-4905 Clinical V .2 ATRN-4906 Clinical VI .2	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 ATRN-4560 General Medical Issues .3 ATRN-4905 Clinical V .2 ATRN-4906 Clinical VI .2 ESSE-3100 Strength and Conditioning .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 ATRN-4560 General Medical Issues .3 ATRN-4906 Clinical V .2 ATRN-4906 Clinical VI .2 ESSE-3100 Strength and Conditioning .3 History Elective .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTGE-3765 Theology II .3 EXSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 ATRN-4560 General Medical Issues .3 ATRN-4906 Clinical V .2 ATRN-4906 Clinical VI .2 ESSE-3100 Strength and Conditioning .3 History Elective .3 Humanities/Global Awareness Elective .3	
Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research Methods 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4906 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 Humanities/Global Awareness Elective 3 LIT-2XXX Literature Elective 3	
Third year: ATRN-3550 Organization and Administration in Athletic Training .3 ATRN-3660 Therapeutic Modalities .3 ATRN-3770 Pharmacology .3 ATRN-3903 Clinical III .2 ATRN-3904 Clinical IV .2 BTGE-3755 Theology I .3 BTSC-4600 Research Methods .3 GSS-1100 Politics and American Culture .3 HUM-1400 Introduction to the Humanities .3 MAHE-3030 Nutrition .3 Total .3 ATRN-4560 General Medical Issues .3 ATRN-4906 Clinical V .2 ATRN-4906 Clinical VI .2 ESSE-3100 Strength and Conditioning .3 History Elective .3 Humanities/Global Awareness Elective .3 Physical Science Elective .3.5	
Third year: ATRN-3550 Organization and Administration in Athletic Training 3 ATRN-3660 Therapeutic Modalities 3 ATRN-3770 Pharmacology 3 ATRN-3903 Clinical III 2 ATRN-3904 Clinical IV 2 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 EXSC-4600 Research Methods 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MAHE-3030 Nutrition 3 Total 31 Fourth year: ATRN-4560 General Medical Issues 3 ATRN-4906 Clinical V 2 ATRN-4906 Clinical VI 2 ESSE-3100 Strength and Conditioning 3 History Elective 3 Humanities/Global Awareness Elective 3 LIT-2XXX Literature Elective 3	

Allied Health — Bachelor of Science

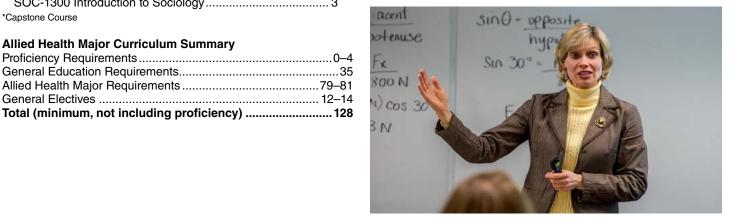
The Bachelor of Science degree with a major in allied health is an interdisciplinary program designed to prepare students for admission into graduate-level allied healthcare provider programs including physical therapy, physician assistant, and occupational therapy. The allied health major is not necessarily designed to prepare students for the medical profession. Students seeking admission to medical school should consider majoring in the premed program offered in the Department of Science and Mathematics. An ACT composite score of 25 (or SAT composite of 1150) or higher is highly recommended.

Course Requirements involve 79–81 semester hours:
ALHL-1000 Introduction to the Allied Health Professions1
ALHL-2000 Medical Terminology3
ALHL-3940 Professional Development2
*ALHL-4960 Senior Seminar1
BIO-1110 Introduction to Biology4
BIO-2210 Microbiology4
(GBIO-2210 Principles of Microbiology4)
BIO-2250 Cell Biology4
CHEM-1110 General Chemistry I4
ESS-3900 Physiology of Exercise3
ESS-3920 Biomechanics3
ESS-3940 Structural Kinesiology3
EXSC-4600 Research Methods
GBIO-2010 Human Anatomy and Physiology I4
GBIO-2015 Human Anatomy, and Physiology II4
GMTH-1030 Precalculus4
MAHE-3030 Nutrition3
MAHE-3070 Current Issues in Health1
PYCH-1600 General Psychology3
PYCH-2600 Human Development and Lifespan3
PYCH-2610 Statistics3
PYCH-2640 Abnormal Psychology3
PYCH-3380 Health Psychology3
PYCH-3720 Psychology of Personality3
One of the following sets10-12
Set A: Pre-Physical Therapy, Optometry, Chiropractic,etc
CHEM-1120 General Chemistry II4
PHYS-1010 College Physics I4
PHYS-1020 College Physics II4
or Set B: Pre-Physician Assistant
CHEM-1120 General Chemistry II4
CHEM-3510 Organic Chemistry I4
CHEM-3710 Biochemistry4
or Set C: Pre-Occupational Therapy
PHYS-1010 College Physics I4
PYCH-3900 Neurophysiological Psychology3
SOC-1300 Introduction to Sociology3
*Capstone Course
Allied Health Major Curriculum Summary
Proficiency Requirements0–4
General Education Requirements

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Allied Health

First year: ALHL-1000 Introduction to the Allied Health Professions	
Second year: ALHL-2000 Medical Terminology 3 BTGE-2730 Old Testament Literature 3 BIO-2210 Microbiology 4 (or GBIO-2210 Principles of Microbiology 4) COM-1100 Fundamentals of Speech 3 CHEM-1110 General Chemistry I 4 GBIO-2015 Human Anatomy and Physiology II 4 HUM-1400 Introduction to the Humanities 3 PYCH-2600 Human Development and Lifespan 3 PYCH-2640 Abnormal Psychology 3 History/Global Awareness Elective 3 Total 33	
Third year: ALHL-3940 Professional Development 2 BTGE-2740 New Testament Literature 3 ESS-3900 Physiology of Exercise 3 ESS-3920 Biomechanics 3 ESS-3940 Structural Kinesiology 3 EXSC-4600 Research Methods 3 MAHE-3030 Nutrition 3 MAHE-3070 Current Issues in Health 1 PYCH-2610 Statistics 3 PYCH-3380 Health Psychology 3 Electives 3 Total 30	
Fourth year: 1 ALHL-4960 Senior Seminar 1 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 PYCH-3720 Psychology of Personality 3 Set A, B, or C Allied Health 10–12 Electives 6–11 Total 31	



Exercise Science — Bachelor of Science

The Bachelor of Science degree with a major in exercise science prepares students for careers in exercise physiology, cardiac rehabilitation, biomechanics, personal fitness services, or as an exercise specialist in corporate or private fitness centers and sports medicine clinics. This program is excellent preparation for graduate or professional schools.

Course requirements involve 68–71 semester hours including:	
¹ CHEM-1000 Principles of Chemistry	4
ESS-1350 Introduction to Exercise Science	
ESS-1400 First Aid and Safety Education	2
ESS-2380 Motor Learning and Development	
ESS-3800 Sport Psychology	3
ESS-3900 Physiology of Exercise	
ESS-3920 Biomechanics	
ESS-3940 Structural Kinesiology	3
ESSE-3100 Strength and Conditioning	
EXSC-2000 Worksite Observation	
EXSC-3010 Practicum I	
EXSC-3020 Practicum II	
EXSC-3810 Organization and Administration of	
Exercise Science	3
EXSC-3860 Basic Exercise Testing	4
EXSC-3870 Basic Exercise Prescription	
EXSC-4600 Research Methods	3
EXSC-4700 Senior Research	3
EXSC-4880 Exercise Testing and Prescription for	
Special Populations	3
*EXSC-4990 Internship in Exercise Science9-	12
² GBIO-2010 Human Anatomy and Physiology I	
³ GBIO-2015 Human Anatomy and Physiology II	
MAHE-3030 Nutrition	
¹ Satisfies physical science general education requirements	
² Satisfies biological science general education requirements	
³ Counts toward the 16 semester hours of science and mathematics courses require	ed
for Bachelor of Science degree	
*Capstone Course	
·	

Exercise Science Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	
Exercise Science B.S. Major Requirements	
Electives	
Total (minimum, not including proficiency)	128

Students preparing for physical therapy school should select the following course options, substitutions, and additions to the Bachelor of Science in exercise science curriculum. BIO-2250 Cell Biology4 GMTH-1030 Precalculus4 CHEM-1110 General Chemistry I......4 and CHEM-1120 General Chemistry II......4 (instead of CHEM-1000 Principles of Chemistry......4) BIO-1110 Introduction to Biology......4 PHYS-1010 College Physics I.....4 and PHYS-1020 College Physics II4 PYCH-1600 General Psychology......3 PYCH-2600 Human Development: Life Span3 PYCH-2610 Statistics.....3 PYCH-2640 Abnormal Psychology3 A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Exercise Science — B.S.

3
3
3
2
2
4
3
2
3
3
3 1
•
0
3
3
3
3
3
3
4
3
3
3
1
3
3
4
3
3
1
4
4
3
3
1
1
3
ა 3
3
2
2 6
6

Graduate Program Pathway Option for Exercise Science — Bachelor of Science

The Bachelor of Science in Exercise Science program offers an accelerated pathway to the Master in Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways.**

Sport Medicine — Bachelor of Science

The National Athletic Trainer's Association and the Commission on Accrediation for Athletic Training has mandated that the entry level credential for athletic training will be the Master of Athletic Training beginning in 2025. The **Bachelor of Science in Sport Medicine** has been designed to prepare students to be eligible to pursue credentialing as a BOC Certified Athletic Trainer by providing the necessary prerequisites for admission to M.A.T. programs.

Course requirements involve 74-77 semester hours including: ATRN-1300 Emergency Care	_
ATRN 1500 Emergency Care	.≾
ATRN-1500 Introduction to Athletic Training	
ATRN-3500 Principles of Sport Medicine	.3
BIO-1110 Introduction to Biology	
CHEM-1110 General Chemistry I	
CHEM-1120 General Chemistry II	
ESS-3800 Sport Psychology	3
ESS-3900 Physiology of Exercise	
ESS-3920 Biomechanics	
ESS-3940 Structural Kinesiology	3
ESSE-3100 Strength and Conditioning	3
GBIO-2010 Human Anatomy and Physiology I	4
GBIO-2015 Human Anatomy and Physiology II	.4
GBIO-2210 Principles of Microbiology	.4
GMTH-1030 Precalculus	.4
MAHE-3030 Nutrition	3
PHYS-1010 College Physics	.4
PYCH-2610 Statistics	3
¹ ATRN-6350 Organization and Administration in Athletic Training (or EXSE-3810 Organization and Administration	
of Exercise Science3)	_
¹ATRN-6560 Evaluation of Extremities	3
(or EXSC-3860 Basic Exercise Testing4) 1ATRN-6650 Therapeutic Exercise and Rehabilitation4	_
'ATRN-6650 Therapeutic Exercise and Rehabilitation	3
(or EXSC-3870 Basic Exercise Prescription4)	_
¹ ATRN-6600 Research in Athletic Training I	3
(or EXSC-4600 Research Methods3)	
1"ATRN-7950 Immersive Clinical Experience III	3
(or 1**ATRN-4500 Senior Sport Medicine Capstone2)	
¹ Graduate Level Course. Admission to the Masters in Athletic Training is a prerequis	site
for enrollment in these courses.	

Bachelor of Science in Sport Medicine Curriculum S	Summary
Proficiency Requirements	0–4
General Education Requirements	
Bachelor of Science in Sport Medicine Requirements	
Electives	10-13
Total (minimum, not including proficiency)	128

Combined B.S./M.A.T. Program

Students pursuing the 5-year (3+2) Master of Athletic Training (M.A.T.) program and formally admitted to the graduate program will begin graduate student status in year four. In support of this program, graduate courses required for the M.A.T. degree will be introduced in the curriculum in fall semester 2022. Upon completion of the final two years of the graduate curriculum, students in the 3+2 program will receive both a BS degree in Sport Medicine and a Master of Athletic Training degree. Students who are not accepted into the graduate program or who decide not to continue to completion of the M.A.T. degree should switch back to the B.S. degree program and complete the requirements for the sport medicine major.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Sport Medicine

First year:
ATRN-1500 Introduction to Athletic Training
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature3
BIO-1110 Introduction to Biology4
COM-1100 Fundamentals of Speech
ENG-1400 Composition
GBIO-2010 Human Anatomy and Physiology I4
GMTH-1030 Precalculus
HUM-1400 Introduction to the Humanities
PEF-1990 Physical Activity and Healthy Living
Social Science Elective (PYCH-1600 recommended)
Total
Second year:
BTGE-2740 New Testament Literature
BTGE-3755 Theology I
CHEM-1110 General Chemistry I4
CUEM 1100 Ceneral Chemistry II
CHEM-1120 General Chemistry II
ESS-3800 Sport Psychology
ESSE-3100 Strength and Conditioning
GBIO-2015 Human Anatomy and Physiology II4
GSS-1100 Politics and American Culture3
PYCH-2610 Statistics3
Humanities/Global Awareness Elective3
LIT-2XXX Literature Elective
Total36
Third year:
Third year: ATRN-1300 Emergency Care3
ATRN-3500 Principles of Sport Medicine
BTGE-3765 Theology II
ESS-3900 Physiology of Exercise
ESS-3920 Biomechanics
ESS-3940 Structural Kinesiology3
GBIO-2210 Principles of Microbiology4
MAHE-3030 Nutrition3
PHYS-1010 College Physics4
History Elective3
Total
Faculting
Fourth year:
ATRN-4500 Senior Sport Medicine Capstone
EXSC-3810 Organization and Administration of Exercise Science3
EXSC-3860 Basic Exercise Testing
EXSC-3870 Basic Exercise Prescription4
EXSC-4600 Research Methods3
Electives
Total



School of Allied Health Teacher Education Licensure Program —

Teacher Education Licensure Program — Physical Education — Multi-Age

Course requirements involve 80 semester hours including:

The multi-age physical education major prepares students to teach physical education in grades pre-K to 12 in public and Christian schools. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section (page 103).

Physical Education	36
ESS-1400 First Aid and Safety Education	
ESS-2380 Motor Learning and Development	3
ESS-3890 Human Anatomy and Physiology for the	
Physical Educator	5
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	
ESSE-3100 Strength and Conditioning	
MAHE-3130 School Health Program	3
MAPE-1000 Foundations of Physical Education	
MAPE-1500 Teaching Sport Concepts and Skills	
MAPE-2000 Recreational Games	2
MAPE-2300 Net Games	
MAPE-2600 Invasion Games	
MAPE-2900 Lifetime Physical Fitness	2
MAPE-4500 Curriculum Development in Physical Education:	
PEAR-2100 Rhythmics	1
School of Allied Health Elective	
Professional Education	
EDSP-2100 Exceptionalities and Behavior	
EDUC-1000 The Education Profession	2
EDUC-1050 Preliminary Student Involvement	
EDUC-2050 Teaching Diverse Learners	
EDUC-2100 e-Learning for Educators	
EDUC-2500 Educational Psychology	
EDUC-3100 Philosophical Foundations of Education	3
EDUC-4000 Reading and Writing in the	_
Disciplines: AYA and Multi-Age	
*EDUC-4900 Student Teaching and Seminar: Multi-Age 12	
MAPE-3600 Physical Education in the Elementary School	5
MAPE-4950 Methods of Teaching Secondary Physical	_
Education	
MAPE-4960 Field Experience	
MAPE-4970 Field Experience (Special Populations)	2
*Capstone Course	
Physical Education Multi-Age Major Curriculum Summary	
Proficiency Requirements	
General Education Requirements48	
Physical Education Multi-Age Major Requirements	

Total (minimum, not including proficiency)128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Physical Education — Multi-Age

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession2	2
EDUC-1050 Preliminary Student Involvement	
ENG-1400 Composition	
ESS-1400 First Aid and Safety Education	2
ESSE-3100 Strength and Conditioning	
GBIO-1000 Principles of Biology3.5	5
HUM-1400 Introduction to the Humanities	3
MAPE-1000 Foundations of Physical Education	ı
MAPE-1500 Teaching Sport Concepts and Skills	
MAPE-2000 Recreational Games	2
PEAR-2100 Rhythmics	
PEF-1990 Physical Activity and Healthy Living2	
Quantitative Elective	
Total	5
Second year:	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
EDSP-2100 Exceptionalities and Behavior	
EDUC-2050 Teaching Diverse Learners2	
EDUC-2100 e-Learning for Educators	
EDUC-2500 Educational Psychology	3
ESS-2380 Motor Learning and Development	3
MAPE-2300 Net Games	
MAPE-2600 Invasion Games	
MAPE-2900 Lifetime Physical Fitness2	
Physical Science Elective3.5	5
Social Science/ Global Awareness Elective	3
Total31.	5
Third year:	
BTGE-3755 Theology I	,
)
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
ESS-3890 Human Anatomy and Physiology for the	
Physical Educator)
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	3
GSS-1100 Politics and American Culture	
MAHE-3130 School Health Program	3
MAPE-3600 Physical Education in Elementary School	
School of Allied Health Elective	
History Elective	
Total 32	2
Fourth year:	
BTGE-3765 Theology II	2
EDUC-3100 Philosophical Foundations of Education	2
EDUC-4900 Student Teaching and Seminar: Multi-Age12	,
LIT-2XXX Literature Elective	-
MAPE-4500 Curriculum Development in Physical Education	
MAPE-4950 Methods of Teaching Secondary Physical Education3	
MAPE-4960 Field Experience	
MAPE-4970 Field Experience (Special Populations)	_

School of Allied Health Multi-Age Health and Physical Education

Multi-Age Health and Physical Education

The multi-age health and physical education major prepares students to teach both health and physical education in grades pre-K through grade 12 in public and Christian schools. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section. Students in this major will practice improving teaching skills in five different teaching experiences; urban field experience, homeschool experience, methods field experience (public), special populations field experience (GCESC public), culminating with student teaching (public or Christian). The total contact hours is 1000 plus.

Course requirements involve 87 semester hours including:
Physical Education38
ESS-1400 First Aid and Safety Education
ESS-2380 Motor Learning and Development
ESS-3890 Human Anatomy and Physiology for the
Physical Educator5
ESS-3900 Physiology of Exercise
ESS-3920 Biomechanics3
ESSE-3100 Strength and Conditioning
MAHE-3130 School Health Program
MAHE-3150 Health Concepts for the Educator
MAPE-1000 Foundations of Physical Education 1
MAPE-1500 Teaching Sport Concepts and Skills1
MAPE-2000 Recreational Games2
MAPE-2300 Net Games
MAPE-2600 Invasion Games2
MAPE-2900 Lifetime Physical Fitness2
MAPE-4500 Curriculum Development in Physical Education 2
PEAR-2100 Rhythmics
Professional Education49
EDSP-2100 Exceptionalities and Behavior2
EDUC-1000 The Education Profession
EDUC-1050 Preliminary Student Involvement
EDUC-2050 Teaching Diverse Learners
EDUC-2100 e-Learning for Educators
EDUC-2300 Assessment and Differentiation
EDUC-2500 Educational Psychology
EDUC-3100 Philosophical Foundations of Education 3 EDUC-4000 Reading and Writing in the
Disciplines: AYA and Multi-Age3
*EDUC-4900 Student Teaching and Seminar: Multi-Age 12
MAHE-4610 Teaching Health
MAPE-3600 Physical Education in the Elementary School 5
MAPE-4950 Methods of Teaching Secondary Physical
Education
MAPE-4960 Field Experience4
MAPE-4970 Field Experience (Special Populations)
*Capstone Course
Multi-Age Health and Physical Education Major Curriculum
Summary
Proficiency Requirements0-4
General Education Requirements 48-56

 A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Multi-age Health and Physical Education

First year:
BTGE-1725 The Bible and the Gospel3
COM-1100 Fundamentals of Speech
EDUC-1000 The Education Profession
EDUC-1050 Preliminary Student Involvement0
ENG-1400 Composition
ESS-1400 First Aid and Safety Education2
ESS-2380 Motor Learning and Development
ESSE-3100 Strength and Conditioning3
GBIO-1000 Principles of Biology3.5
HUM-1400 Introduction to the Humanities3
MAPE-1000 Foundations of Physical Education
PEF-1990 Physical Activity and Healthy Living2
Quantitative Elective3
Total31.5
Consendence
Second year:
BTGE-2730 Old Testament Literature
BTGE-2740 New Testament Literature
EDSP-2100 Exceptionalities and Behavior
EDUC-2050 Teaching Diverse Learners
EDUC-2100 e-Learning for Educators
LIT-2XXX Literature Elective
MAPE-1500 Teaching Sport Concepts and Skills
MAPE-1300 reacting Sport Concepts and Skins
MAPE-2300 Net Games
MAPE-2500 Net Games 2
MAPE-2900 Lifetime Physical Fitness
PEAR-2100 Rhythmics
History Elective
Total
10tal
Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
EDUC-2500 Educational Psychology3
EDUC-3100 Philosophical Foundations of Education
EDUC-4000 Reading and Writing in the
Disciplines: AYA and Multi-Age3
ESS-3890 Human Anatomy and Physiology for the
Physical Educator5
ESS-3900 Physiology of Exercise
ESS-3920 Biomechanics3
MAHE-3130 School Health Program
MAHE-3150 Health Concepts for the Educator
MAPE-3600 Physical Education in Elementary School5
Total
Fourth years
FOUR 4000 Student Teaching and Seminar: Multi Age 12
EDUC-4900 Student Teaching and Seminar: Multi-Age
MAHE-4610 Teaching Health
MAPE-4500 Curriculum Development in Physical Education2
MAPE 4060 Field Experience
MAPE-4960 Field Experience
MAPE-4970 Field Experience (Special Populations)
Social Science/ Global Awareness Elective
101at 29



Department of Art, Design, and Theatre

Mission Statement	46
Personal Requirements	46
Industrial and Innovative Design, Studio	
Art, and Visual Communication Design	
Requirements	46
Art and Design Requirements	47
Theatre Requirements	47
Programs of Study	47
Technical Resources	47
Cocurricular Opportunities	48
Career Opportunities	48
Faculty	12

Majors	
» Industrial and Innovative Design	49
» Studio Art	50
» Theatre	51
» Visual Communication Design	52
Minors	
» Arts Administration Minor	54
» Graphic Design Minor	54
» Interactive Web Design Minor	54
» Studio Art Minor	54
» Theatre Minor	55
» Theatre Design Minor	55
» Theatre Performance Minor	55
Department of Art, Design, and Theatre	
Course Descriptions	227

Department of Art, Design, and Theatre Mission Statement

Mission Statement

The Cedarville University Department of Art, Design, and Theatre is an essential part of a unique, creative, and academic Christ-centered learning community that values a broad study of disciplines in the liberal arts. As Christian artists, we are given the gift of creativity to imitate and honor God as Creator.

The Department of Art, Design, and Theatre believes that God has called us to excellence and whatever we do is to the glory and honor of the Creator. We believe that art is a gift and a calling, and that educational success in art, design, or theatre is not measured in income or job placement alone but in how lives are enabled, enriched, enlightened, and transformed.

The successful graduate of the Department of Art, Design, and Theatre will:

- Glorify God: Demonstrate the appreciation of God's purpose and design in creation through artistic endeavor. The graduate will exercise the stewardship of God's gifts as evidenced in a work ethic centered in faith and characterized by diligence, excellence, and honesty.
- Think broadly and deeply: Use critical thinking to evaluate and apply historical and cultural knowledge to conceptualize, create, and communicate their art.
- Communicate effectively: Be effective with verbal and visual communication while articulating a biblical philosophy of art which reveals an understanding of the integration of faith and learning.
- Develop academically and professionally: Demonstrate the understanding and competence of technical skills and media necessary for individual creation of visual or performing art. Graduates will be prepared for graduate study and/or become practitioners in their discipline.
- Engage for Christ: Be effective as a spiritual witness to the greater culture simply by being the best artist they can be.
 The graduate is engaged and involved in creating a viable cultural contribution to the artistic cultures of the University and community. By their humility, intellect, and excellent verbal and visual abilities, they impact the world for Christ.

Personal Requirements Scholarships

Academic scholarships and other types of financial assistance are available to qualified individuals through Cedarville University Financial Aid.

Portfolio

Applicants who wish to major in studio art, industrial and innovative design, or visual communication design should follow the standard procedure for admission. A portfolio submission for art and design majors is encouraged but is not a requisite for admission into the program. Portfolios should be submitted digitally or at an arranged on-campus interview.

Department Requirements

To graduate with a major from the art and design program, students must earn at least a 2.0 cumulative average in all courses required for their major and at least a "C-" in all courses taken to meet specific requirements in their major.

Theatre Program

Students planning to pursue a major in theatre are best prepared by taking a college preparatory curriculum in high school. Successful students in the major are individuals with abilities in creative expression, critical thinking, problem-solving, and interpersonal interaction.

Industrial and Innovative Design, Studio Art, and Visual Communication Design Requirements

Freshman Review

All entering freshmen are admitted into the visual communication design, industrial and innovative design, and studio art majors on a conditional basis. After the second semester of study, freshmen are evaluated by the art and design faculty to determine whether they are making adequate progress to continue in their respective programs and/or exhibit the talent necessary to be successful in their chosen fields. Students who do not show satisfactory progress and/or talent will be advised to consider other majors unless they show significant improvement.

Sophomore Review

At the end of the second semester of the sophomore year, industrial and innovative design, studio art, and visual communication design majors are required to apply to the department for upper-divisional standing. The sophomore review is an evaluation of classroom work and performance and intuitive abilities necessary to succeed in the student's chosen discipline. The art and design faculty will evaluate the student on the basis of academic progress, grade averages in major courses, and intuitive abilities necessary to succeed in the student's chosen discipline. If necessary, the student may be required to present a portfolio representing every area of his or her work in visual communication design and/or studio art courses at the University. The portfolio should include original two-dimensional work and images of three-dimensional work. Students who do not pass their sophomore review will not be allowed to continue in the major.



Department of Art, Design, and Theatre Art and Design Requirements

Transfer Review

All students who wish to transfer from another college or university and enroll at Cedarville University as either an industrial and innovative design, studio art, or visual communication design major on the junior or senior level must submit along with their application a digital portfolio with images of two- and three-dimensional work representing collegiate classroom work and art done outside the classroom. The art and design faculty will review this material before acceptance into the program is granted.

Art and Design Requirements Capstone Exhibition or Project

In addition to the expectation of participation in student and other exhibitions throughout the college experience, all art and design majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior exhibition or project as approved by the department Chair.

Fees

Lab classes that provide supplies and/or University-provided equipment require fees. These fees do not necessarily cover all the costs for student art materials or personal tools. A portion of the lab fees is utilized for program expenses and costs incurred that directly and indirectly support the needs for program courses.

Theatre Requirements

Students complete courses in the history, theory, research, and ethics of theatre. Students are required to complete a senior capstone project in research, production, internship, performance, design or directing to graduate. The nature of the project is determined by the emphasis area of the student.



Programs of Study

The Department of Art, Design, and Theatre offers the following programs of study:

Bachelor of Arts (B.A.) in:

- · Industrial and Innovative Design
- Studio Art
- Theatre
- Visual Communication Design

Minors

- Arts Administration
- Graphic Design
- Interactive Web Design
- Studio Art
- Theatre
- Theatre Design
- Theatre Performance

Technical Resources

Art and design students render and complete class assignments in fully equipped Macintosh computer labs using industry-standard software.

A modern theatre and accompanying equipment and facilities are available to theatre majors.

The computer network provides tools for research and design.



Department of Art, Design, and Theatre Cocurricular Opportunities

Cocurricular Opportunities

All art and design students are invited to join one or several student organizations within the department including The Studio, and the University student chapter of AIGA.

Theatre Cocurricular Opportunities

Each year the Department of Art, Design, and Theatre presents three major theatrical productions. In recent years the department has produced *The Diary of Anne Frank; The Lion, The Witch, and The Wardrobe; Wit; Ken Ludwig's The Hound of the Baskervilles; and The Complete Works of William Shakespeare (Abridged), Revised*. Performances are often sold out and are always greatly appreciated by the University family as well as many community guests.

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Careers pursued by graduates of this department include:

- Actor
- · Art preparator
- Art therapist
- · Arts administrator
- · College professor
- Community arts manager
- Consumer product designer
- Exterior space designer
- · Graphic designer
- Illustrator

- Interior space designer
- · Retail art salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio artist
- Studio teacher
- · Theatre director
- Transportation designer
- Web designer



Aaron Huffman, *Chair;* Associate Professor of Graphic Design. *Education:* B.A., Cedarville University, 2007; M.F.A., University of Notre Dame, 2011. At Cedarville since 2011.

Don (Cam) Davis, Associate Professor of Visual Communication Design. *Education:* B.F.A., Marshall University, 1983. M.F.A., Radford University, 2002. At Cedarville since 2018.

Aaron Gosser, Associate Professor of Studio Art. *Education:* B.A., Goshen College, 2002; M.F.A., Art Institute of Boston at Lesley University, 2007. At Cedarville since 2005.





Diane A. Merchant, Professor of Theatre. Education: B.A., Cedarville University, 1978; postgraduate work in theatre, Kent State University, 1983–84; M.A., The Ohio State University, 1989; Ph.D., The Ohio State University, 1996. At Cedarville since 1989. Rebekah Priebe, Assistant Professor of Theatre. Education: B.A., Friends University, 2009; M.A., Kansas State University, 2013; M.F.A., The Ohio State University, 2016. At Cedarville since 2016. Jonathan Sabo, Professor of Theatre: Design. Education: B.A., Bethel College, 1979; M.F.A., Wayne State University, 1986. At Cedarville since 2019.

Stacey Stratton, Assistant Professor of Theatre: Performance. *Education:* B.S., Murray State, 1994; M.F.A., University of Mississippi, 1997. At Cedarville since 2019.

Technical Support Staff

Timothy J. Phipps, Technical Director/Production Manager. *Education:* B.A., Cedarville University, 2002. At Cedarville since 2005

Mike Mikesell, 3D Studio Technician. *Education:* B.A., Cedarville University, 1985. At Cedarville since 2016.

Emeriti

Rebecca M. Baker, Associate Professor Emerita of Theatre. *Education:* B.A., Bob Jones University, 1973; M.A., Bob Jones University, 1975; M.A., University of Cincinnati, 1996. At Cedarville from 1977–79 and since 2001.

Terry Chamberlain, Associate Professor Emeritus of Fine Art. *Education:* B.S., Bob Jones University, 1970; M.A., Bob Jones University, 1972. At Cedarville since 1996.

Robert L. Clements, Associate Professor Emeritus of Theatre. *Education:* B.A., Bob Jones University, 1970; M.Ed., Wright State University, 1983; graduate study — The Ohio State University, 2002. At Cedarville since 2003.

Department of Art, Design, and Theatre Industrial and Innovative Design

Industrial and Innovative Design

The Bachelor of Arts in industrial and innovative design prepares students for careers in consumer product design, interior space design, architectural/exterior space design, and transportation design. The designer is generally identified as an industrial designer, visual designer, or design consultant. More specifically, career opportunities include such areas as landscape design, furniture design, exhibition design, and other design-related fields. Employment may be with a corporation, design studio, or a freelance capacity.

The following requirements involve 83 semester hours:	
Industrial and Innovative Design Core	83
ART-1100 Introduction to Art	3
ART-1110 Drawing Foundations	3
ART-1230 Two-Dimensional Design	3
ART-2230 Three-Dimensional Design	3
EGME-1810 Engineering Graphics	
IDES/VCD-2000 History and Influences of Design	3
IDES-3110 Drawing in Dynamic Perspective I	3
IDES-3120 Drawing in Dynamic Perspective II	
IDES-3210 Language of Line	
IDES-3220 Innovative Media Systems	
IDES-3310 Fundamentals of Surface Development I	
IDES-3320 Fundamentals of Surface Development II	
IDES-3410 Three-Dimensional Composition	
IDES-3420 Three-Dimensional Presentation	
IDES-4010 Consumer Product Design	
IDES-4020 Interior Space Design	
IDES-4030 Transportation Design	
IDES-4040 Architectural/Exterior Space Design	
IDES-4200 Professional and Ethical Practices in Design	3
IDES-4300 Design Project: Selection Statement,	0
Research and Scope	
IDES-4400 Design Project and Presentation	
VCD-1050 Applied Design: Tech Tools I	პ
VCD-1200 Design Thinking Electives selected from the following	∠
ART-2140 Ceramics Foundations	
ART-2160 Sculpture Foundations	
ART-3230 Watercolor	o 3
BUS-2100 Business Communication	o 3
MGMT-3510 Entrepreneurship and Small	0
Business Management	3
VCD-2050 Applied Design: Tech Tools II	3
VOB 2000 Applied Boolgii. 100H 100H H	0
Industrial and Innovative Design Curriculum Summary	
Proficiency Requirements	0–4
Other General Education Requirements	
Industrial and Innovative Design Major Requirements	83
Total (minimum, not including proficiency)	



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Industrial and Innovative Design

rirst year:
ART-1100 Introduction to Art
ART-1110 Drawing Foundations
ART-1230 Two-Dimensional Design
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature
COM-1100 Fundamentals of Speech
ENG-1400 Composition3
GBIO-1000 Principles of Biology
PEF-1990 Physical Activity and Healthy Living2
VCD-1050 Applied Design: Tech Tools I
Quantitative Elective
Total
10(a)
Second year:
ART-2230 Three-Dimensional Design3
BTGE-2740 New Testament Literature
BTGE-3755 Theology I3
EGME-1810 Engineering Graphics1
GSS-1100 Politics and American Culture3
IDES/VCD-2000 History and Influences of Design3
VCD-1200 Design Thinking2
History Elective
Industrial and Innovative Design Elective
LIT-2XXX Literature Elective
Physical Science Elective
Social Science/Global Awareness Elective3
Total
Third year:
HUM-1400 Introduction to the Humanities3
IDES-3110 Drawing in Dynamic Perspective I
IDES-3120 Drawing in Dynamic Perspective II
IDES-3210 Language of Line4
IDES-3220 Innovative Media Systems4
IDES-3310 Fundamentals of Surface Development I
IDES-3320 Fundamentals of Surface Development II
IDES-3410 Three-Dimensional Composition4
IDES-3420 Three-Dimensional Presentation4
Total
Fourth year:
BTGE-3765 Theology II
IDES-4010 Consumer Product Design4
IDES-4020 Interior Space Design
IDES-4030 Transportation Design
IDEC 4040 Architectural/Exterior Cases Design
IDES-4040 Architectural/Exterior Space Design
IDES-4200 Professional and Ethical Practices in Design
IDES-4200 Professional and Ethical Practices in Design
IDES-4200 Professional and Ethical Practices in Design



Department of Art, Design, and Theatre Studio Art

Studio Art

The **Bachelor of Arts in studio art** is designed for students with a strong interest in a variety of traditional studio disciplines such as drawing, painting, printmaking, and sculpting. Studio art currently offers concentrations in drawing, painting, sculpture, and printmaking. The major is ideally suited for students who plan to complete graduate programs in art and arts-related fields. Examples include art education, museum studies, art preparation, art therapy, and illustration. Course requirements involve 62 semester hours, comprised of 54 studio art semester hours and eight art electives.

The following requirements involve 62 semester hours:
Studio Art Čore
ART-1110 Drawing Foundations
ART-1230 Two-Dimensional Design3
ART-2110 Intermediate Drawing3
ART-2130 Painting Foundations
ART-2140 Ceramics Foundations3
ART-2160 Sculpture Foundations3
ART-2170 Printmaking Foundations3
ART-2230 Three-Dimensional Design
ART-3310 Art History I3
ART-3320 Art History II3
*ART-4300 Art Exhibition3
ART-4400 20th Century Art3
Studio Art courses selected from
ART-3110 Advanced Drawing3-6
ART-3130 Intermediate Painting3
ART-3140 Intermediate Ceramics3
ART-3160 Intermediate Sculpture3
ART-3170 Intermediate Printmaking3
ART-4130 Advanced Painting3-6
ART-4140 Advanced Ceramics3
ART-4160 Advanced Sculpture3–6
ART-4170 Advanced Printmaking3–6
Electives selected from the following0-8
ART-2250 Creative Photography3
ART-3230 Watercolor
ART-3250 Studio Photography3
ART-4440 Installation Art
BUS-2100 Business Communication
VCD-1050 Applied Design: Tech Tools I
VCD-2050 Applied Design: Tech Tools II
VCD-2200 Typography
VCD-2400 Graphic Design I
VCD-2600 Web Design I
THTR-3850 Seminar in Art Administration and Art Law 2
*Capstone Course

Studio Art Curriculum Summary

-4
56
62
-18
28

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Studio Art

First year: ART-1100 Introduction to Art 3 ART-1110 Drawing Foundations 3 ART-1230 Two-Dimensional Design 3 BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and Healthy Living 2 LIT-2XXX Literature Elective 3 Total 32.5
Second year: ART-2110 Intermediate Drawing 3 ART-2130 Painting Foundations 3 ART-2160 Sculpture Foundations 3 ART-2230 Three-Dimensional Design 3 ART-3310 Art History I 3 ART-3320 Art History II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 Social Science/Global Awareness Elective 3 Quantitative Elective 3 Total 30
Third year: ART-2140 Ceramics Foundations 3 ART-2170 Printmaking Foundations 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 Studio Art Electives 15 Electives 6 Total 33
Fourth year: ART-4300 Art Exhibition 3 ART-4400 20th Century Art 3 Art Electives 8 History Elective 3 Physical Science Elective 3.5 Electives 12 Total 32.5



Department of Art, Design, and Theatre Theatre

Theatre

The **theatre major** provides training in acting, directing, theatre design/technology, and theatre history/dramaturgy. The program allows the student to declare a concentration in either performance or design. A special emphasis is placed upon the challenges faced by the Christian in theatre and the use of drama in worship and Christian ministry.

In addition to studio and classroom instruction, students gain practical experience through working on department productions and serving on production teams. This practical experience work is supervised by the theatre technical staff and may include set construction, scenic painting, lighting, properties, costumes, and other projects.

While many theatre majors anticipate a career in theatre, other students may want to combine the theatre major with a specific minor to help prepare them for the diversity of theatre-related professions including Christian education, youth ministry, arts management, arts law, and arts education. The program culminates in a senior theatre project designed to feature the student's level of expertise and assist the student in preparation for graduate school or the selected area of employment or ministry.

Course requirements involve 67 semester hours including:
Theatre core requirements41
THTR-1300 Introduction to Technical Theatre
THTR-1410 Introduction to Theatre
THTR-1440 Stagecraft I1
THTR-1450 Stagecraft II1
THTR-1500 Introduction to Production Design
THTR-2130 Dramatic Literature3
THTR-2350 Directing I3
THTR-2360 Introduction to Costuming
THTR-2430 Acting I
THTR-2470 Makeup Design2
THTR-3420 Theatre History I
THTR-3430 Theatre History II
THTR-3470 Dramaturgy3
THTR-4400 Professional Preparation Seminar2
THTR-4630 The Christian in Theatre2
*Select one of the following with theatre faculty approval.3
THTR-4810 Internship: Theatre0-6
THTR-4840 Senior Theatre Project3
Theatre Major Electives6
Choose six credits of the following courses (not yet completed)
THTR-2510 The Arts and Social Change3
THTR-3850 Seminar in Arts Administration and
Arts Law2
Any THTR-3000-4000 course3
Concentration selected from the following20
Design Concentration
THTR-2440 Stagecraft III
THTR-3450 Stagecraft IV1
THTR-3490 Stage Lighting Design3
THTR-4360 Costume Design3
THTR-4500 Scenic Design3
Select three of the following Design Electives9
THTR-3440 Stage Costume History
THTR-3360 Costume Construction
THTR-3520 Scenic Painting
THTR-4490 Advanced Stage Lighting Design3
Performance Concentration
THTR-1230 Voice for the Performer
THTR-1430 Stage Movement
THTR-3460 Acting II
THTR-3510 Directing II3

THTR-3530 Techniques of American Musical Theatre ... 2

Select from of the following Performance elect	ives .6
THTR-2410 Advanced Performance Techniques	3
THTR-3465 Performing Shakespeare	3
THTR-3610 Theatre for Young People	2
THTR-3650 Playwriting	3

*Capstone Course

Theatre Major Curriculum Summary	
Proficiency Requirements	0–4
General Education Requirements	48–56
Theatre Major Requirements	67
Electives	5-13
Total (minimum, not including proficiency).	128

A complete description of the general education requirements is found on page <?>.

Suggested Four-Year Curriculum for a Major in Theatre

Major in Theatre
First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 THTR-1300 Introduction to Technical Theatre 3 THTR-1410 Introduction to Theatre 3 THTR-1450 Stagecraft I 1 THTR-1500 Introduction to Production Design 3 PEF-1990 Physical Activity and Healthy Living 2 Biology Elective 3.5 Total 31.5 Second year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 LIT-2XXX Literature Elective 3
THTR-2130 Dramatic Literature 3 THTR-2350 Directing I 3 THTR-2360 Introduction to Costuming 3 THTR-2430 Acting I 3 THTR-2470 Makeup Design 2 Theatre Concentration Courses 7 Total 30 Third year:
BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 THTR-3420 Theatre History I 3 THTR-3430 Theatre History II 3 THTR-3470 Dramaturgy 3 Theatre Concentration Courses 5 History Elective 3 Physical Science Elective 3.5 Quantitative Elective 3 Electives 4 Total 33.5
Fourth year: 2 THTR-4400 Professional Preparation Seminar. 2 THTR-4630 The Christian in Theatre 2 THTR-4810/THTR-4840 Internship/Project 3 Theatre Concentration Courses 8 Theatre Major Electives 6 Social Science/Global Awareness Elective 3 Electives 9 Total 33

Department of Art, Design, and Theatre Visual Communication Design

Visual Communication Design

The Bachelor of Arts in visual communication design prepares students for a career in the fields of graphic and interactive web design. The designer is generally identified as a graphic designer, design consultant, or communication designer. More specifically, career opportunities include the design of advertising, exhibitions, publications, corporate identity, packaging, books, signs, magazines, multimedia presentations, and webpages. Every industrial, social, educational, service, and governmental organization utilizes design services. Employment may be with an organization or business, a design firm, advertising agency, or in a freelance capacity.

Students may choose to combine the major with a specific minor that enhances their potential for a wide diversity of graphic design-related career options, including business management or broadcasting, digital media, and journalism. Portfolio diversity can be achieved with a minor in studio art, motion graphics, graphic design, or interactive web design.

The following requirements involve 67 semester hours:

Visual Communication Design Core	43-49
ART-1100 Introduction to Art	3
ART-1110 Drawing Foundations	3
ART-1230 Two-Dimensional Design	3
ART-2230 Three-Dimensional Design	3
ART-3310 Art History I	
ART-3320 Art History II	3
PWID-3010 Style and Mechanics	3
VCD-1050 Applied Design: Tech Tools I	3
VCD-1200 Design Thinking	2
VCD/IDES-2000 History and Influences of Design	3
VCD-2050 Applied Design: Tech Tools II	3
VCD-2200 Typography	
VCD-2400 Graphic Design I	
VCD-2600 Web Design I	3
VCD-3200 Portfolio I	1
VCD-4200 Portfolio II	1
VCD-4900 Visual Communication Design Internship	0–6



Electives selected from the following	0-	-6
ART-2110 Intermediate Drawing		
ART-2130 Painting Foundations	3	
ART-2140 Ceramics Foundations	3	
ART-2160 Sculpture Foundations		
ART-2170 Printmaking Foundations	3	
ART-2250 Creative Photography		
ART-3250 Studio Photography	3	
BRDM-2606 Introduction to Computer Animation for		
Electronic Media	2	
BRDM-3630 Principles of Computer Animation		
BRDM-3611 Web Analytics	3	
CS-1210 C++ Programming	2	
ITM-2300 Introduction to Programming		
PWID-4050 Content Strategy and Development		
Any 3000- or 4000-level VCD course		
Graphic Design Concentration	1	18
BRDM-2350 Introduction to Graphics for TV and Film	3	
VCD-3300 Production Design I	3	
VCD-3400 Graphic Design II	3	
VCD-4300 Production Design II	3	
VCD-4400 Graphic Design III		
Electives selected from the following:	3	
VCD-3650 Scripting for Interactivity	.3	
VCD-3700 User Experience and Interface Design	.3	
Interactive Web Design Concentration	1	18
VCD-3600 Web Design II		
VCD-3650 Scripting for Interactivity		
VCD-3700 User Experience and Interface Design		
VCD-4600 Web Design III	3	
VCD-4700 Interactive Design Capstone	3	
Electives selected from the following:		
VCD-3300 Production Design I		
VCD-3400 Graphic Design II	.3	
Missister and the Books of the Co.		
Visual Communication Design Curriculum Summary	_	
Proficiency Requirements		
Other General Education Requirements		
Visual Communication Design Major Requirements		
General Electives	5-1	13



Total (minimum, not including proficiency) 128

Department of Art, Design, and Theatre Visual Communication Design

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Visual Communication Design

First year:	
ART-1100 Introduction to Art	3
ART-1110 Drawing Foundations	
ART-1230 Two-Dimensional Design	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
VCD-1050 Applied Design: Tech Tools I	3
VCD-1200 Design Thinking	
VCD-2050 Applied Design: Tech Tools II	3
Quantitative Elective	3
Total	32.5
Cocond wear	
Second year: ART-2230 Three-Dimensional Design	2
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
GSS-1100 Politics and American Culture	
PEF-1990 Physical Activity and Healthy Living	2
VCD/IDES-2000 History and Influences of Design	3
VCD-2200 Typography	3
VCD-2400 Graphic Design I	
VCD-2600 Web Design I	3
VCD-3200 Portfolio I	1
Physical Science Elective	
Total	30.5
Third year:	
ART-3310 Art History I	3
ART-3320 Art History II	
BTGE-3755 Theology I	
BTGE-3765 Theology II	
HUM-1400 Introduction to the Humanities	3
PWID-3010 Style and Mechanics	3
VCD-4200 Portfolio II	1
LIT-2XXX Literature Elective	3
Social Science Elective/Global Awareness	
Concentration Requirements	
Total	
Fourth woor:	
Fourth year: VCD-4900 Visual Communication Design Internship	0.6
Visual Communication Design Electives	0 - 0
History Elective Concentration Requirements	
Electives	
Total	34





Department of Art, Design, and Theatre Minors

Minors

Arts Administration Minor

Course requirements for the minor in arts administration in	volve
18–19 semester hours selected from the following courses:	
COM-2300 Voices of Diversity	;
COM-3350 Event Planning	
MGMT-3500 Principles of Organization and Management	
THTR-2510 The Arts and Social Change	
THTR-3850 Seminar in Arts Administration and Arts Law	
THTR-4400 Professional Preparation Seminar	
Electives selected from the following	
ART-1100 Introduction to Art	3
PFMU-3XXX Large Ensemble	1
THTR-3610 Theatre for Young People	2
WSHP-2060 Music and the Arts in Worship	3

Graphic Design Minor

The **graphic design minor** gives students who have an interest in the advertising and marketing aspects of art a foundational understanding of this important profession. The program includes coursework in both manual and computer-assisted art. It is suggested that students who minor in graphic design begin the program no later than their sophomore year. Course requirements involve 20 semester hours.

Graphic Design Core	20
ART-1230 Two-Dimensional Design	
VCD-1050 Applied Design: Tech Tools I	. 3
VCD-1200 Design Thinking	. 2
VCD-2200 Typography	. 3
VCD-2400 Graphic Design I	. 3
VCD-3300 Production Design I	. 3
Graphic Design Electives selected from	3
VCD-2050 Applied Design: Tech Tools II	. 3
VCD-3400 Graphic Design II	. 3
VCD-4300 Production Design II	. 3

Interactive Web Design Minor

Page 54

The **Interactive Web Design minor** is a value-added program that provides students with web design skills to complement their chosen majors or fields of study. Course requirements involve 20 semester hours.

semester nours.	
Interactive Web Design Core	17
VCD-1050 Applied Design: Tech Tools I	3
VCD-1200 Design Thinking	2
VCD-2600 Web Design I	
VCD-3600 Web Design II	
VCD-3650 Scripting for Interactivity	
VCD-3700 User Experience and Interface Design	
Elective selected from the following	3
BRDM-2350 Introduction to Graphics for TV and Film	3
BRDM-3611 Web Analytics	
ITM-2300 Introduction to Programming	3
PWID-4050 Content Strategy and Development	
VCD-4600 Web Design III	

Studio Art Minor

The **studio art minor** provides an opportunity for students with aptitude in the visual arts to receive formal instruction in art. In addition to skill-based instruction, special attention is given to building a philosophical and historical understanding of art from a scriptural perspective. It is suggested that students who minor in art begin the program no later than the sophomore year. Course requirements involve 18 semester hours, including 12 hours of art core and six hours of an art elective.

Art Core	12
ART-1100 Introduction to Art	3
ART-1110 Drawing Foundations	
ART-1230 Two-Dimensional Design	
ART-2230 Three-Dimensional Design	3
ART-2XXX, 3XXX, 4XXX Electives	



Department of Art, Design, and Theatre Minors

Theatre Minor

Course requirements for the minor in theatre involve 16	
semester hours selected from the following courses:	
THTR-1410 Introduction to Theatre	3
THTR-1440 Stagecraft I	1
THTR-2430 Acting I	3
Theatre Electives	

Theatre Design Minor

Course requirements for the minor in theatre design involve	÷
18–19 semester hours selected from the following courses:	
Theatre Design Minor core	13
THTR-1300 Introduction to Technical Theatre	. 3
THTR-1410 Introduction to Theatre	. 3
THTR-1440 Stagecraft I	. 1
THTR-1500 Introduction to Production Design	. 3
THTR-2360 Introduction to Costuming	. 3
Electives selected from the following	5-6
THTR-2470 Makeup Design	. 2
THTR-3360 Costume Construction	. 3
THTR-3440 Stage Costume History	. 3
THTR-3490 Stage Lighting Design	. 3
THTR-3520 Scenic Painting	
THTR-4360 Costume Design	
THTR-4490 Advanced Stage Lighting Design	
THTR-4500 Scenic Design	



Theatre Performance Minor

ce
courses:
16
3
3
3
1
3
3
3
2–3
3
2
3
3
2
2
3
_
3





School of Biblical and Theological Studies

Mission Statement	57
Personal Requirements	57
School Requirements	57
Programs of Study	57
Technical Resources	57
Center for Apologetics and Public	
Christianity	58
Center for Biblical Integration	58
Cocurricular Opportunities	58
Career Opportunities	58
Faculty	58
Majors	
» Biblical Studies	60
» Biblical Studies — Accelerated B.A./Maste	er
of Divinity	63
» Christian Education	64
» Intercultural Studies — Missiology	66
» Youth Ministries	67

Special Program	
» One-Year Bible Program	68
Minors	
» Bible Minor	69
» Biblical Care and Counseling Minor	69
» Bible Teacher Education Minor	69
» Christian Ministry Minor	69
» Greek Minor	69
» Mission Minor	69
» Pastoral Ministry Minor	69
» Philosophy and Theology Minor	69
» Preseminary Minor	70
» Women's Ministry Minor	70
» Youth Ministry Minor	70
School of Biblical and Theological Studies	
Course Descriptions	. 233

School of Biblical and Theological Studies Mission Statement

Mission Statement

Our Lord Jesus Christ commissioned His followers to "go and make disciples of all nations, baptizing them ... and teaching them to observe all that I commanded you ..." (Matt. 28:19). The Apostle Paul is an example of how the early believers embraced this mission and carried it forward. "We proclaim him (Christ)," Paul declared, "admonishing every man and teaching every man with all wisdom, so that we may present every man complete in Christ" (Col.1:28). Indeed, over the centuries there is an unbroken chain of Christian leaders who have spent their lives doing the same. So it is the mission of the School of Biblical and Theological Studies at Cedarville University to stand firmly in that line of those who have faithfully carried forward Christ's commission. With Peter, we are convinced that it is Christ alone who has "the words of eternal life" (John 6:68).

As a school, we are privileged to carry out this commission with the two points of emphasis in every major. First, we strive to train men and women to be skilled artisans in handling the biblical text and proficient theologians when attempting to synthesize biblical material into culturally engaged public witness. Second, we want to equip graduates through biblical and theological training for full-time ministry in the local church or among those people groups who lack a sustained Gospel witness. The majors offered in the School of Biblical and Theological Studies all share in the goals of biblical and theological proficiency with an expression in ministry. These majors do have their own distinct qualities and pathways to reach these goals.

We also have the institution-wide opportunity of influencing each student through the required Bible minor. On this level we endeavor to aid students from all disciplines in developing a distinctively God-centered world and life view. We believe it to be crucially important that all those who will be appointing the pastors and missionaries of the future, doing the work of the ministry, and serving God through their vocations know how to handle the Word of truth accurately. To this end, we commit ourselves to facilitating the development in every student of a biblically based, theologically sound, culturally engaged, and God-honoring view of life.

Personal Requirements

Students planning to pursue careers in vocational ministries should be committed to intense study of the Scriptures, a heart for ministering to the needs of others, and a reputation for Christlike character, which would provide a platform for authentic spiritual leadership. In addition to classroom expectations, students should seek to gain as much practical experience in ministries as possible. Biblical and Theological Studies majors find the opportunities provided by Christian Ministries to be excellent avenues for applying truths learned in the classroom and developing necessary skills for effective ministry. We also encourage involvement in local church ministry as a significant part of a student's training for ministry. Guided ministry experiences in the local church (e.g., mentorships, internships) accentuate the biblical and theological training that takes place in the classroom.

School Requirements

To graduate with a major from the School of Biblical and Theological Studies, students must earn a cumulative average of 2.0 or higher and a "C-" or higher in all courses included in the major.

Programs of Study

The School of Biblical and Theological Studies offers the following programs:

Majors

- Biblical Studies
- Biblical Studies Accelerated B.A./Master of Divinity
- Christian Education
- Intercultural Studies Missiology
- Youth Ministries

Minors

- Bible
- · Bible Teacher Education
- · Biblical Care and Counseling
- · Christian Ministry
- Greek
- Missions
- Pastoral Ministry
- Philosophy and Theology
- Preseminary
- Women's Ministry
- · Youth Ministries

Special Program

· One-Year Bible Certificate

Technical Resources

- Textbook-specific software
- · Course-specific software



School of Biblical and Theological Studies Center for Apologetics and Public Christianity

Center for Apologetics and Public Christianity

The Center for Biblical Apologetics and Public Christianity at Cedarville University exists to prepare believers to engage culture with the credible news of the Gospel grounded in God's biblical revelation of Himself. This center exemplifies the core mission of the University by offering students resources and opportunities to think deeply and biblically about the role of the Christian in the public square, and the position of the Gospel in the marketplace of ideas. The center also affords another avenue by which a diversity of views can be presented and addressed from a biblical perspective.

Center for Biblical Integration

The Center of Biblical Integration at Cedarville University promotes biblical integration throughout curriculum, teaching, and research for both the University and the evangelical community. The center strives to be a resource for integrative study, teaching, and service in drawing connections between a biblical and theological foundation, academic disciplines, and topics of life. The center also aids faculty members in their personal integration efforts in their classrooms, academic research, or professional field.

Cocurricular Opportunities

Several organizations exist campus wide, which assist in the development of character and ministry skills. Many Bible faculty serve as advisors for these organizations, and our students are encouraged to take full advantage of them. For example:

Alpha Sigma

Alpha Sigma is an organization devoted to promoting critical thinking through philosophical and theological inquiry into issues central to the Christian worldview and our contemporary culture.

Theta Alpha Kappa

The National Honor Society for Religious Studies and Theology, Theta Alpha Kappa (TAK), acknowledges the academic achievements of religion and theology students. TAK also offers scholarship awards, fellowship competitions, and publishes superior student papers in their periodical, the Journal of Theta Alpha Kappa.

Career Opportunities

Graduate schools, professional schools, and seminaries welcome Cedarville University graduates. Careers pursued by graduates include:

- · Bible teacher
- Biblical Counselor
- Camp director
- Children's Director
- · Christian education director
- Missionary
- Pastor
- Writer
- Youth pastor



Faculty

Trent Rogers, *Interim Dean; Director of Master of Ministry Program;* Assistant Professor of New Testament and Greek. *Eduction:* B.A., Wabash College, 2007; M.Div., Trinity Evangelical Divinity School, 2010; Ph.D., Loyola University (Chicago), 2015. At Cedarville since 2018.

William M. Marsh, Director of the Master of Divinity Program: Assistant Professor of Theological Studies. *Education:* B.A., North Greeneville University, 2004; M.Div., Southwestern Baptist Theological Seminary, 2008; Ph.D., Southwestern Baptist Theological Seminary, 2014. At Cedarville since 2013. Matthew Bennett, Assistant Professor of Missions and Theology. Education: B.A., Winona State University; M.A., Southeastern Baptist Theological Seminary; M.Div., Southeastern Baptist Theological Seminary, 2012; Ph.D., Southeastern Baptist Theological Seminary, 2017. At Cedarville since 2017. **Zachary Bowden**, Executive Assistant to the President; Assistant Professor of Theological Studies. Education: B.A.. Texas A&M University-Corpus Christi, 2006; M.Div., Southwestern Baptist Theological Seminary, 2010; Ph.D., Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013. Joshua Bowman, Assistant Professor of Missions and Theology. Education: B.A., Jacksonville University, 1998; M.Div., The Southern Baptist Theological Seminary, 2002; Ph.D., Southeastern Baptist Theological Seminary, 2019. At Cedarville

Gregory Couser, Senior Professor of Bible and Greek. *Education:* B.S., Liberty University, 1981; M.Div., Liberty Baptist Theological Seminary, 1985; M.A., Liberty University, 1988; Ph.D., University of Aberdeen (Scotland), 1993. At Cedarville since 1994.

Daniel DeWitt, Associate Professor of Applied Theology and Apologetics, Director, *Center for Biblical Apologetics and Public Christianity*, Church Partnership Coordinator. *Education:* B.A., Lexington Baptist College, 1999; M.Div., The Southern Baptist Theological Seminary, 2002; Ph.D., The Southern Baptist Theological Seminary, 2012. At Cedarville since 2016. **Paul Dixon**, Chancellor; Professor of Bible. *Education:* B.A.,

Tennessee Temple University, 1961; M.Div., Temple Baptist Theological Seminary, 1964; D.D., Tennessee Temple University, 1978; LL.D., Liberty University, 1984; Ed.D., The University of Cincinnati, 1986. At Cedarville since 1978.

Scott Dixon, Associate Professor of Bible. *Education:* B.A., Cedarville University, 1984; Th.M., Dallas Theological Seminary, 1989; Ph.D., Michigan State University, 2001. At Cedarville since 1997.

Daniel Estes, Distinguished Professor of Old Testament. *Education:* B.A., Cedarville University, 1974; Th.M., Dallas Theological Seminary, 1978; Ph.D., Cambridge University (England), 1988. At Cedarville since 1984.

John Gilhooly, Associate Professor of Philosophy and Theology, *Director of the Honors Program. Education:* B.A., Texas A&M University, 2008; M.Th., University of Dallas, 2011; Ph.D., Southwestern Baptist Theological Seminary, 2014. At Cedarville since 2013.

Thomas Hutchison, Professor of Christian Education. *Education*: B.A., Cedarville University, 1980; M.Div., Grand Rapids Baptist Seminary, 1985; Ph.D., Marquette University, 1997. At Cedarville since 1995.

Jeremy Kimble, Associate Professor of Theology, *Director of the Center for Biblical Integration. Education:* B.S. Baptist Bible College, 2002; M.Div., Winebrenner Theological Seminary, 2008; Ph.D., Southeastern Baptist Theological Seminary, 2013. At Cedarville since 2013.

Joshua Kira, Assistant Professor of Philosophy and Theology, *Bible Minor Coordinator. Education:* B.A., The Master's College, 2001; S.T.M., Yale Divinity School, 2010; Ph.D. Claremont Graduate University, 2016. At Cedarville since 2014.

School of Biblical and Theological Studies Faculty

Michael McKay, Assistant Professor of Biblical Theology. *Education:* B.A., New Tribes Mission, 2004; M.A., Grace Theological Seminary, 2008; Ph.D., Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2017.

Jason K. Lee, Professor of Theological Studies. *Education*: B.A., University of Mobile, 1991; M.Div., New Orleans Baptist Theological Seminary, 1993; Ph.D., University of Aberdeen (U.K.), 1999. At Cedarville since 2013.

Randall L. McKinion, Assistant Vice President for Academics, Professor of Old Testament. Education: B.S., University of South Alabama, 1998; M.Div., The Master's Seminary, 2001; Ph.D., Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2014.

Chris Miller, Senior Professor of Biblical Studies. *Education:* B.A., Tennessee Temple University, 1976; Th.M., Grace Theological Seminary, 1981; Ph.D., Dallas Theological Seminary, 1993; graduate study, Institute of Holy Land Studies (Jerusalem, Israel), 1992. At Cedarville since 1991.

Mark Owens, Assistant Professor of New Testament Theology. *Education:* B.S., University of Georgia, 1998; M.Div, Southeastern Baptist Theological Seminary, 2003; Th.M., Southeastern Baptist Theological Seminary, 2006; Ph.D., University of Aberdeen, 2012. At Cedarville since 2016.

Erin M. Shaw, Assistant Professor of Women's Ministry. *Education:* B.S., University of Florida, 2002; M.Div., Southeastern Baptist Theological Seminary, 2005; Ed.D., Southern Baptist Theological Seminary, 2018. At Cedarville since 2014.

Michael Shepherd, Associate Professor of Biblical Studies. *Education:* B.F.A., New School University (NYC), 2000; M.Div., Southeastern Baptist Theological Seminary, 2004; Ph.D., Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2015.

Brandon D. Smith, Assistant Professor of Theology and New Testament. *Education:* B.A., Dallas Baptist University, 2012; M.A., Criswell College, 2015; Ph.D. candidate, Ridley College (ABD). At Cedarville since 2019.

Ched Spellman, Associate Professor of Biblical and Theological Studies, *Lead Developer of Online Bible. Education:* B.A., Stephen F. Austin State University, 2004; M.Div., Southwestern Baptist Theological Seminary, 2008; Ph.D., Southwestern Baptist Theological Seminary, 2012. At Cedarville since 2013.

Thomas White, *University President*; Professor of Systematic Theology. *Education*: B.A., Anderson University, 1997; M.Div., Southeastern Baptist Theological Seminary, 2001; Ph.D., Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2013.

Jonathan Wood, Vice President for Student Life and Christian Ministries; Assistant Professor of Theological Studies. Education: B.A., University of Oklahoma, 2003; M.Div., Southwestern Baptist Theological Seminary, 2007; Ph.D., Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.

Emeriti

Jack Riggs, Senior Professor Emeritus of Bible. *Education:* B.A., Taylor University, 1956; B.D., Grace Theological Seminary, 1959; Th.M., Grace Theological Seminary, 1963; Th.D., Dallas Theological Seminary, 1968; postdoctoral study, Institute of Holy Land Studies (Jerusalem, Israel), 1987. At Cedarville from 1967–2007

Robert Gromacki, Distinguished Professor Emeritus of Bible and Greek. *Education:* Th.B., Baptist Bible Seminary, 1956; Th.M., Dallas Theological Seminary, 1960; Th.D., Grace Theological Seminary, 1966; postdoctoral study, Institute of Holy Land Studies (Jerusalem, Israel), summer 1982. At Cedarville from 1960–2000.



School of Biblical and Theological Studies Biblical Studies

Biblical Studies

The **biblical studies major** built around a core of biblical studies courses can be tailored according to the student's needs. To enhance areas of professional preparation, the program allows students to choose a concentration. The graduates of this program will be uniquely equipped with the strongest combination of biblical studies and liberal arts core.

Course requirements involve 88–90 semester hours including:	
General Education	18
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	
BTGE-3755 Theology I	3
BTGE-3765 Theology II	3
BTPA-2200 Introduction to Philosophy	
, ,	

Biblical Studies requirements	70–72
Biblical Studies — Year 1 (same as B.A./M.Div.)	4
BTAT-2400 Introduction to Evangelism	3
BTBS-1000 Introduction to Biblical Studies	1
BTBS-2020 Biblical Research Methods)
Biblical Studies — Year 2 (same as B.A./M.Div.)	.11
BTAT-3200 Introduction to Missions: Theology and History 3	3
¹ BTBL-2510 Elementary Greek I	4
¹BTBL-2520 Elementary Greek II	4

¹Students not intending to continue in B.A./M.Div. accelerated program not choosing the Biblical Languages, Biblical Literature, Historical Theology, Missions, Philosophy, or Theology undergraduate concentrations can take BTBS-3400 Bible Backgrounds and BTBL-2010 Introduction to Biblical Language Tools (plus two hours of general electives) instead of Elementary Greek 1 and 2.

*Biblical Studies — Year 3	.21
BTBS-4310 Hermeneutics	3
BTHT-3340 Christian Theology I: Bible, Trinity, God the	
Father	3
BTHT-3350 Christian Theology II: God the Son and God	
the Spirit	3
BTHT-3510 Christian History and Theology 1	3
BTHT-3520 Christian History and Theology 2	3
BTNT-3110 New Testament 1: Synoptic Gospels	3
BTNT-3120 New Testament 2: Acts and New Testament	
Epistles	3
BTOT-3110 Old Testament 1: Pentateuch	3
BTOT-3210 Old Testament 2: Former Prophets	3

*Students intending to continue in B.A./M.Div. accelerated program should take BTBL-3510 Intermediate Greek and BTBL-4110 Greek Syntax and Exegesis in Year 3.

Completing Undergraduate Biblical

Studies degree only — Year 4	30
BTNT-3130/6130 New Testament 3: Pauline Literature	
BTNT-3140/6140 New Testamant 4: Johannine Literature	.3
BTOT-3310/6130 Old Testament 3: Latter Prophets	3
BTOT-3410/6140 Old Testament 4: Writings	.3
¹Concentration	18
Canstone Course	

'With special approval by the student's advisor and the school Dean, the concentration could be fulfilled by an individualized study plan consisting of another University-approved minor.

Biblical Counseling Concentration	
BTAT-3400 Biblical Care and Counseling	3
BTAT-3410 Discipleship	3
BTAT-3430 Ministerial Counseling	
BTCM-3510 Small Group Ministry	
Choose one from the following	

Biblical Languages Concentration

requires a minimum of eight weeks of supervised ministry.

BTBL-3610 Biblical Hebrew Grammar and	
Syntax I (or BTBL-6610)	3
BTBL-3620 Biblical Hebrew Grammar and	
Syntax II (or BTBL-6620)	3
BTBL-3510 Intermediate Greek I	3
BTBL-3520 Intermediate Greek II	3
BTBL-4110 Greek Syntax and Exegesis	3
*BTBS-4850 Senior Seminar	3

*This capstone course for the Biblical Languages Concentration is delivered in a seminar format.

Biblical Literature Concentration

*BTBS-4850 Senior Seminar3
BTHT-4100/6100 Biblical Theology3
Choose two from the following6
BTBL-3510 Intermediate Greek I3
and BTBL-3520 Intermediate Greek II
BTBL-3610 Biblical Hebrew Grammar and Syntax I3
and BTBL-3620 Biblical Hebrew Grammar and Sytax II 3
Choose two from the following6
BTNT-4990 Selected Studies in the New Testament 3-6
BTOT-3140 Psalms
BTOT-4990 Selected Studies in the Old Testament 3-6
*This capstone course for the Biblical Literature concentration is delivered in a

*This capstone course for the Biblical Literature concentration is delivered in a seminar format.

BTHT-3500 Historical Theology3
Choose three from the following9
BTHT/HIST-3050 Renaissance and Reformation Europe 3
BTHT/HIST-3310 American Church History3
BTHT-4220 Early Christian Thought3
BTHT-4320 Contemporary Theology in Historical Context 3
Choose one from the following3
BTHT-3360/6360 Christian Theology 3: Humanity
Angels, and Salvation3
BTHT-3370/6370 Christian Theology 4: The Church
and Last Things3
BTHT-4990 Topics in Theology3
*This are store a course for the distance of the classic and the delice of the classic and the

*This capstone course for the Historical Theology concentration is delivered in a seminar format.

School of Biblical and Theological Stud	ies Biblical Studies
Missions Concentration BTAT-3450 Contemporary World Missions	Women's Ministry Concentration BTAT-3480 Women's Communication for Ministry
Philosophy Concentration BTPA-2240 Logic	Worship Concentration BTAT-3730 Theology of Worship
Teaching Ministry Concentration BTAT/BTCM 4300 or 6300 Teaching Ministry of the Church	Youth and Family Ministry Concentration BTAT/BTCM-4300 Teaching Ministry of the Church
Theology Concentration *BTBS-4850 Senior Seminar	Biblical Studies Major Curriculum Summary Proficiency Requirements

format.

*This capstone course for the Theology concentration is delivered in a seminar

School of Biblical and Theological Studies Biblical Studies

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Biblical Studies

First year: BTAT-2400 Introduction to Evangelism 3 BTBS-1000 Introduction to Biblical Studies 1 BTBS-2020 Biblical Research Methods 0 BTGE-1725 The Bible and the Gospel 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and Healthy Living 2 Biology Elective 3.5 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Total 34
Second year: BTAT-3200 Intro to Missions: Theology and History. 3 BTBL-2510 Elementary Greek I. 4 BTBL-2520 Elementary Greek II. 4 BTGE-2740 New Testament Literature. 3 BTGE-3755 Theology I. 3 BTGE-3765 Theology II. 3 BTPA-2200 Introduction to Philosophy. 3 History Elective. 3 Social Science/Global Awareness Elective. 3 Quantitative Elective. 3 Total. 32
Third year: BTBS-4310 Hermeneutics (fall)
Fourth year: BTNT-3130/6130 New Testament 3: Pauline Literature



School of Biblical and Theological Studies Biblical Studies — Accelerated B.A./Master of Divinity

Biblical Studies — Accelerated B.A./Master of Divinity

The **Biblical Studies** — **accelerated program** involves a threeyear curriculum that contains the course requirements to enable the student to complete a B.A. in biblical studies and a M.Div. in a five year, dual-degree program.

The following 100-hour program should comprise the three years of undergraduate status at Cedarville..

General Education	18
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
BTPA-2200 Introduction to Philosophy	
Biblical Studies Accelerated requirements	48

Combined B.A./M.Div. — Year 1	4
BTAT-2400 Introduction to Evangelism	
BTBS-1000 Introduction to Biblical Studies	
Combined B.A./M.Div. — Year 2	11

ombined B.A./M.Div. — Year 2	.1
BTAT-3200 Introduction to Missions: Theology and History	
BTBL-2510 Elementary Greek I	4
BTBL-2520 Elementary Greek II	
-	

ombined B.A./M.Div. — Year 3	33
BTBL-3510 Intermediate Greek	
BTBL-4110 Greek Syntax and Exegesis	
BTBS-4310 Hermeneutics	
BTHT-3340 Christian Theology I: Bible, Trinity, God	
the Father	3
BTHT-3350 Christian Theology II: God the Son and	
God the Spirit	3
BTHT-3510 Christian History and Theology 1	
BTHT-3520 Christian History and Theology 2	3
BTNT-3110 New Testament 1: Synoptic Gospels	3
BTNT-3120 New Testament 2: Acts and New Testame	nt
Epistles	3
BTOT-3110 Old Testament 1: Pentateuch	3

BTOT-3210 Old Testament 2: Former Prophets......3

1. Graduate student status begins in year 4.

Students who are not accepted into the graduate program
or who decide not to continue to completion of the Master
of Divinity should switch to the regular track biblical
studies major (see previous pages), including the BTBS4850 Senior Seminar (capstone course), to complete the
undergraduate degree. Students will need to complete a
concentration as well.

Note: The Master of Divinity curriculum is described in the Graduate Catalog and available upon request from admissions

Biblical Studies Accelerated Undergraduate Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	33
Biblical Studies Requirements	
General Electives	0–1
Undergraduate Total (min., not including proficiency)	100

A complete description of the general education requirements is found on page 24.

Suggested Three-Year Curriculum for Biblical Studies — Accelerated

First year:
BTAT-2400 Introduction to Evangelism3
BTBS-1000 Introduction to Biblical Studies1
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature3
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GSS-1100 Politics and American Culture3
HUM-1400 Introduction to the Humanities3
PEF-1990 Physical Activity and Healthy Living2
Biology Elective
LIT-2XXX Literature Elective
Physical Science Elective
Total
Second year:
BTAT-3200 Introduction to Missions: Theology and History
BTBL-2510 Elementary Greek I
BTBL-2520 Elementary Greek II
BTGE-2740 New Testament Literature
BTGE-3755 Theology I
BTGE-3765 Theology II
BTPA-2200 Introduction to Philosophy
History Elective
Social Science Elective
General Elective
Total 33
10tal
Third year:
BTBL-3510 Intermediate Greek I (fall)
BTBL-4110 Greek Syntax and Exegesis (spring)3
BTBS-4310 Hermeneutics (fall)3
BTHT-3340 Christian Theology I: Bible, Trinity, God the Father3
BTHT-3350 Christian Theology II: God the Son and God the Spirit 3
BTHT-3510 Christian History and Theology 1 (fall)3
BTHT-3520 Christian History and Theology 2 (spring)3
BTNT-3110 New Testament 1: Synoptic Gospels (fall)3
BTNT-3120 New Testament 2: Acts and New Testament
Epistles (spring)3
BTOT-3110 Old Testament 1: Pentateuch (fall)3
BTOT-3210 Old Testament 2: Former Prophets (spring)3
Total

School of Biblical and Theological Studies Christian Education

Christian Education

The **Christian education major** prepares students to minister effectively and to encourage spiritual growth through meaningful relationships, compelling biblical teaching, effective program development, and influential leadership in a constantly changing culture. The required selection of a ministry concentration area and options in selection of a minor can be combined to equip for unique specialized areas of ministry to diverse age groups and ministry contexts (church, camp, college campus, parachurch organizations, cross-cultural contexts, etc.). This degree also provides a solid foundation for seminary or other related graduate programs.

Course requirements involve /4 semester hours including:	
General Education	
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	3
BTGE-3765 Theology II	3
Christian Education Core	53-55
BTAT-2350 Theological Foundations of Ministry	
BTAT-2400 Introduction to Evangelism	3
BTAT-3410 Discipleship	3
BTCM-1000 Orientation to Bible Ministries Majors	
BTCM-2400 Interpreting and Teaching the Bible	6
BTCM-3685 Children's Ministries	-
BTCM-3700 Campus Ministries	
BTCM-3725 Adult Ministries	
BTCM-4100 Leadership of Christian Education Ministries	
*BTCM-4740 Internship in Christian Ministries	
(or BTCM-4750 Internship in Youth Ministry3-	
BTNT-XXXX New Testament Elective	
BTOT-XXXX Old Testament Elective	
BTPA-XXXX Philosophy Elective (BTPA-2200 recommended	
1,2,3BTHT-XXXX Theology Elective	
BTXX-XXXX Bible Electives (BTPA-3450 recommended)	0–7



Select one of the following ministry concentrations
EDUC-2400 Children's Literature2
EDUC-2500 Educational Psychology3
ESED-2900 Health and Movement Education for the
Young Child2
PYCH-2725 Child Development2
PYCH-2735 Child-Adolescent Development3
Counseling**6
PYCH-3680 Counseling Couples and Families3
PYCH-3701 Counseling Adolescents3
PYCH-4400 Counseling Skills3
PYCH-4700 Counseling Children3
¹Cross-Cultural Ministries6
BTAT-3200 Introduction to Missions: Theology and History3
BTAT-3450 Contemporary World Missions3
BTAT-3470 Cross-Cultural Ministry3
BTAT-3510 Introduction to Urban Missiology3
Sports Ministries
CCHG-3670 Fundamentals of Coaching3
ESSE-1350 Foundations of Sports Ministries
SMGT-2500 Organizational Behavior in Sport
² Worship
WSHP-1020 Introduction to Worship Technology2
WSHP-2060 Music and the Arts in Worship3
³ Women's Ministries
BTAT-3480 Women's Communication for Ministry3
BTCM-3520 Counseling and Mentoring Women3
BTCM-3530 Contemporary Ministry to Women and Girls3
*Capstone Course
**PYCH-1600 General Psychology must be completed and can satisfy the social
1 1011 1000 Golfold I Sychology must be completed and dail datisfy the social

**PYCH-1600 General Psychology must be completed and can satisfy the social science elective for general education.

¹Students with the cross-cultural ministries concentration should take BTHT-4300 Global Theology as the theology elective.

²Students with the worship concentration should take BTAT-3730 Theology of Worship as the theology elective.

³Students with the Women's Ministries concentration should take BTAT/BTHT-3840 Theology of Sexuality and Family as the theology elective.

Christian Education Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	
Christian Education Major Requirements	
Electives	
Total (minimum, not including proficiency)	128

School of Biblical and Theological Studies Christian Education

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Christian Education

First year:	
BTCM-1000 Orientation to Bible Ministries Majors	1
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	3
ENG-1400 English Composition	3
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and Healthy Living	2
Biology Elective	3.5
History/Global Awareness Elective	3
Physical Science Elective	
Social Science Elective	
Total	31
Second year:	
BTAT-2350 Theological Foundations of Ministry	
BTCM-2400 Interpreting and Teaching the Bible	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	_
LIT-2XXX Literature Elective	
Ministry Concentration Electives	6
Philosophy Elective/Humanities ElectiveQuantitative Elective	3
Total	
10tai	
Third year:	
Third year:	3
Third year: BTAT-2400 Introduction to Evangelism	3
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship	3 3
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries	3 3 4
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I	3 3 3 4 4 3
Third year: BTAT-2400 Introduction to Evangelism	3 33 43 33 33
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II	
Third year: BTAT-2400 Introduction to Evangelism	
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total	
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer:	3 3 3 4 4 3 3 6 6
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries	3 3 3 4 3 3 3 6 30
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer:	3 3 3 4 3 3 3 6 30
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries	3 3 3 4 3 3 3 6 30
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries	33333330303–123–12)
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3755 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives	33333330303–123–12)3–12
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective	
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective BTOT-XXXX Old Testament Elective	
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective	
Third year: BTAT-2400 Introduction to Evangelism BTAT-3410 Discipleship BTCM-3685 Children's Ministries BTCM-3700 Campus Ministries BTCM-3725 Adult Ministries BTGE-3755 Theology I BTGE-3765 Theology II Electives Total Summer: BTCM-4740 Internship in Christian Ministries (or BTCM-4750 Internship in Youth Ministry Fourth year: BTCM-4100 Leadership of Christian Education Ministries Bible Electives BTNT-XXXX New Testament Elective BTOT-XXXX Old Testament Elective	





School of Biblical and Theological Studies Intercultural Studies — Missiology

Intercultural Studies — Missiology

The intercultural studies — missiology major is a program that prepare students for a variety of intercultural focused careers. Students will cultivate a deeper commitment to the global mission task as they gain knowledge in contemporary global issues, past and present mission thinking and practice, as well as the opportunities and challenges to doing missions in today's world. Students will also develop skills in understanding other cultures and living competently in another culture for the purpose of ministry.

Course requirements involve 21 semester hours of intercultural studies requirements, 45 hours of biblical and theological studies and ministry studies, and 15 to 20 hours of a required minor. Intercultural Studies Core Requirements21 BTPA-2260 World Religions......3 ²HIST-32XX Any regional history3 ³INTL-2100 Global Issues3 LING-3080 Linguistics for Language Learning......3 Biblical and Theological Studies Requirements......18 BTBS-4310 Hermeneutics......3 BTHT-4300 Global Theology3 BTHT-3XXX or 4XXX Theology Elective......3 BTNT-3XXX or 4XXX New Testament Electives 3 (or BTPA-2250 Ethics......3) Ministry Studies......27 BTAT-2400 Introduction to Evangelism3 BTAT-3200 Introduction to Mission: Theology and History 3 BTAT-3510 Introduction to Urban Missiology3 Required minor**15-20 ¹ Satisfies social science general education requirement. ² Satisfies history general education requirement. ³ Satisfies global awareness general education requirement.

- ⁴ Satisfies humanities general education requirement.
- *This is a capstone cross-cultural experience which focuses on the development of the student. It requires a minimum of 10 weeks living in another culture and is usually done between the student's junior and senior year.

Intercultural Studies — Missiology Major Curriculum

Sullillary	
Proficiency Requirements	0–4
Other General Education Requirements	42-50
Intercultural Studies Major Requirements	66
Required minor**	15–20
General Electives	0–5
Total (minimum, not including proficiency)	128

**Increasingly, those engaged in a mission ministry must also have expertise in another discipline. Therefore, the intercultural studies — missiology major requires that students also fulfill the requirements for an additional minor. Although any minor offered at CU would fulfill this requirement, students should carefully choose a minor that fits their ministry goals. Minors may include teaching English as a second language, Asian studies, youth ministry, electronic media, Spanish, international business, and others.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Intercultural Studies — Missiology

First year:
ANTH-1800 Cultural Anthropology3
BTAT-3200 Introduction to Missions: Theology and History
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature
COM-1100 Fundamentals of Speech
ENG-1400 English Composition3
GSS-1100 Politics and American Culture3
HUM-1400 Introduction to the Humanities3
PEF-1990 Physical Activity and Healthy Living2
Biological Science Elective3.5
Quantitative Elective3
Total
Second year:
BTAT-2400 Introduction to Evangelism
BTAT-2420 History of Mission
BTGE-2740 New Testament Literature
BTGE-2740 New restament Literature
BTOT-3XXX or 4XXX Electives
BTPA-2200 Introduction to Philosophy
(or BTPA-2250 Ethics
BTPA-2260 World Religions
LIT-2XXX Literature Elective
Physical Science Elective
Required minor6
Total
Third year:
BTAT-3470 Cross-Cultural Ministry
BTAT-3510 Introduction to Urban Missiology
BTGE-3765 Theology II
BTNT-3XXX or 4XXX New Testament Elective3
BUS-3910 International Business
HIST-32XX Regional History3
INTL-2100 Global Issues
POLS-3650 International Relations
Required minor
Total
Summer:
BTAT-4720 Cross-Cultural Missionary Internship3
Fourth year:
BTAT-3450 Contemporary World Missions3
BTAT/BTCM-XXXX Ministry Elective
BTBS-4310 Hermeneutics
BTCM-4100 Leadership of CE Ministries
BTHT-4300 Global Theology
BTHT-3XXX or 4XXX Theology Elective
LING-3080 Linguistics for Language Learning
(or LING-3090 Sociolinguistics3)
Required minor
General Electives5
Total

School of Biblical and Theological Studies Youth Ministries

Youth Ministries

The **youth ministries major** prepares students to minister effectively to encourage spiritual growth through meaningful relationships, compelling biblical teaching, effective program development, and influential leadership in a constantly changing youth culture. The additional selection of a particular minor can be used to equip for unique specialized ministry contexts (camp, college campus, parachurch organizations, cross-cultural contexts, etc.). This degree also provides a solid foundation for seminary or other related graduate programs.

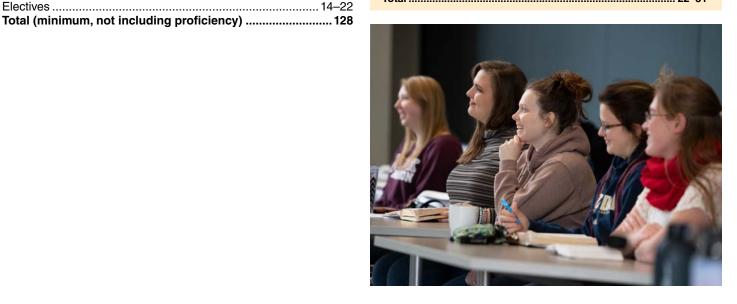
Course requirements involve 73 semester hours including:

General Education	15
BTGE-1725 The Bible and the Gospel	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	3
BTGE-3765 Theology II	3
Youth Ministries Core	58–60
BTAT-2350 Theological Foundations of Ministry	3
BTAT-2400 Introduction to Evangelism	
BTAT-3410 Discipleship	3
BTCM-1000 Orientation to Bible Ministries Majors	
BTCM-2200 Introduction to Youth Ministry	
BTCM-2400 Interpreting and Teaching the Bible	6
BTCM-3685 Children's Ministries	
BTCM-3700 Campus Ministries	
BTCM-3725 Adult Ministries	
BTCM-4100 Leadership of Christian Educational Ministries	
*BTCM-4750 Internship in Youth Ministry	
BTHT-XXXX Theology Elective	3
BTNT-XXXX New Testament Elective	
BTOT-XXXX Old Testament Elective	3
BTPA-XXXX Philosophy Elective	_
(BTPA-2200 recommended)	3
BTXX-XXXX Bible electives (BTPA-3450 recommended)	0-7
Select one ministry elective from the following:	
BTAT-3480 Women's Communication for Ministry	
BTAT-3510 Introduction to Urban Missiology	
BTCM-3510 Small Group Ministry	3
*Capstone Course	
Vouth Ministries Major Curriculum Cummary	
Youth Ministries Major Curriculum Summary Proficiency Requirements	0.4
General Education Requirements	
Youth Ministries Major Requirements	
TOURT WITH BUILDS WAID TREGULETIES	1 3

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Youth Ministries

First year:	
BTCM-1000 Orientation to Bible Ministries Majors	1
BTCM-2200 Introduction to Youth Ministry	2
BTGE-1725 The Bible and the Gospel	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and Healthy Living	
Biology Elective	
Physical Science Elective	
Quantitative Elective	3
Total	30
Second year:	
BTAT-2350 Theological Foundation of Ministry	3
BTAT-2400 Introduction to Evangelism	3
BTCM-2400 Interpreting and Teaching the Bible	6
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
BTPA-XXXX Philosophy Elective/Humanities Elective	
History/Global Awareness Elective	3
LIT-2XXX Literature Elective	
Social Science Elective	
	_
Total	30
Third year:	
BTAT-3410 Discipleship	3
BTCM-3685 Children's Ministries	
BTCM-3700 Campus Ministries	
•	
BTCM-3725 Adult Ministries	
BTGE-3755 Theology I	
BTGE-3765 Theology II	3
BTOT-XXXX Old Testament Elective	
Electives	10
Total	34
Summer:	
BTCM-4750 Internship in Youth Ministry	3–12
Fourth waar:	
Fourth year:	_
BTCM-4100 Leadership of Christian Educational Ministries	
BTHT-XXXX Theology Elective	3
BTNT-XXXX New Testament Elective	
BTXX-XXXX Ministry Elective	
Bible Electives	0–7
Electives	10-12



School of Biblical and Theological Studies One-Year Bible Program

Suggested Three-Year Curriculum for a Major in Youth Ministries

Fall Year 1:BTAT-2400 Introduction to Evangelism3BTCM-1000 Orientation to Bible Ministries Majors1BTGE-1725 The Bible and the Gospel3COM-1100 Fundamentals of Speech3ENG-1400 Composition3History Elective3Total16
Spring Year 1 BTGE-2730 Old Testament Literature
Summer Year 1 BTGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 Biology Elective 3.5 Quantitative Elective 3 Total 12.5
Fall Year 2:BTAT-2350 Theological Foundation of Ministry3BTCM-2400 Interpreting and Teaching the Bible6BTGE-3755 Theology I3Electives4Total16
Spring Year 2. BTAT-3410 Discipleship 3 BTCM-3685 Children's Ministries 3 BTCM-3700 Campus Ministries 4 BTGE-3765 Theology II 3 Electives 3 Total 17
Summer Year 2. HUM-1400 Introduction to the Humanities
Fall Year 3. BTCM-3510 Small Group Ministry
Spring Year 3: BTCM-4100 Leadership of Christian Educational Ministries 3 BTHT-XXXX Theology Elective 3 BTOT-XXXX Old Testament Elective 3 Bible Electives 4 Electives 3 Total 16
Summer Year 3. BTCM-4750 Internship in Youth Ministry

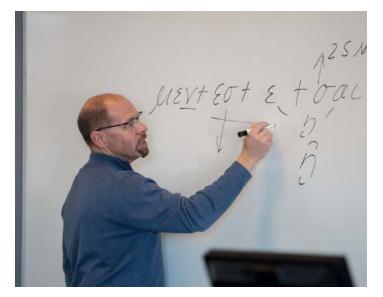
One-Year Bible Program

The **one-year Bible program** is a nondegree program designed to provide the student with greater Bible knowledge through intensive study of the Scriptures in a single academic year. This program provides personal enrichment through formal Bible study so that the student can participate more effectively in the church or a parachurch organization.

The course requirements for the one-year Bible program involve 34 semester hours including:

General Education	15
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
BTNT-XXXX New Testament Electives	
BTOT-XXXX Old Testament Electives	3
BTPA-XXXX Philosophy Elective	3
Other Bible Electives	7

Note: As a nondegree certificate program, the one-year Bible program is not eligible for federal Title IV financial aid funds — including the Federal Pell Grant and Federal Direct Loans.



School of Biblical and Theological Studies Minors

Minors

Bible Minor

For the **Bible minor**, every student must take five Bible courses to meet the general education requirements. They will also count toward the course requirements of any Biblical and Theological Studies major. **These courses may not be taken on an out-of-class basis or by correspondence study.** The minor involves 15 semester hours of coursework including:

BIGE-1/25 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
<u> </u>	

Biblical Care and Counseling Minor

The **biblical care and counseling minor** involves 15 semester hours of coursework for the student interested in the unique dynamic of counseling within the context of ministry. These courses include:

BTAT-3400 Biblical Care and Counseling	3
BTAT-3430 Ministerial Counseling	
PYCH-1600 General Psychology	3
Choose one from the following	
BTAT-3410 Discipleship	
BTCM-3510 Small Group Ministry	3
PYCH-4400 Counseling Skills	3
Choose one from the following	3
PYCH-3520 Counseling and Mentoring Women	3
PYCH-3680 Counseling Couples and Families	3
PYCH-3701 Counseling Adolescents	3
PYCH-4700 Counseling Children	3

Bible Teacher Education Minor

Christian Ministry Minor

The **Christian ministry minor** involves 16 semester hours of coursework for the student who wishes to become better equipped to serve in the educational function of the local church. These courses include:

BTCM-2400 Interpreting and Teaching the Bible	6
Choose one from the following	3-4
BTCM-3685 Children's Ministries	3
BTCM-3700 Campus Ministries	1
BTCM-3725 Adult Ministries	
Choose one from the following	
BTAT-2400 Introduction to Evangelism	3
BTAT-3200 Introduction to Missions: Theology and History 3	
BTAT-3410 Discipleship	3
BTAT-3730 Theology of Worship	3
BTCM-3530 Contemporary Ministry to Women and Girls 3	
BTCM-4100 Leadership of Christian Educational Ministries. 3	3
BTCM-4740 Internship in Christian Ministries	3
Any courses with BTAT or BTCM designators	

Greek Minor

Mission Minor

Pastoral Ministry Minor

The **pastoral ministry minor** involves 16–17 semester hours of coursework for the student interested in pastoral ministries. These courses include:

or BTAT-2400 Introduction to Evangelism
DTAT 0.400 Ministration Common library
BTAT-3430 Ministerial Counseling3
BTAT-3500 Text-Driven Preaching 13
BTCM-4100 Leadership in Christian Education Ministries3
Choose one from the following2–3
BTAT-3410 Discipleship3
BTAT-3510 Introduction to Urban Missiology3
BTAT-4710 Ministry Internship2-3

Philosophy and Theology Minor

School of Biblical and Theological Studies Minors

Preseminary Minor

The **preseminary minor** is designed to help the student prepare for graduate theological education and consists of 17 semester hours including:

BTBL-2510 Elementary Greek I	∠
BTBL-2520 Elementary Greek II	
BTBL-3610 Biblical Hebrew Grammar and Syntax I	
BTBL-3620 Biblical Hebrew Grammar and Syntax II	3
One course selected from	3
BTPA-2250 Ethics	3
BTBS-4310 Hermeneutics	3
BTHT-XXXX Theology Electives	

Women's Ministry Minor

The **women's ministry minor** involves 15 semester hours for students who desire to minister to women in a variety of contexts, through an understanding of the identity, role, and gender-specific needs of women, and through the attainment of the basic skills needed to address those needs and equip women most effectively. Course requirements are:

BTCM-3520 Counseling and Mentoring Women		3
BTCM-3530 Contemporary Ministry to Women and Girls		
BTAT-3480 Women's Communication for Ministry		
or BTHT-3750 Historical Theology of Womanhood		
BTHT-3740 Biblical Theology of Womanhood		3
BTAT-2400 Introduction to Evangelism		3
or BTAT-3410 Discipleship		
or BTAT/BTHT-3840 Theology of Sexuality and Family		
or BTCM-3510 Small Group Ministry	3	

Youth Ministry Minor





School of Business Administration

Mission Statement	72
Accreditation	72
Personal Requirements	72
School Requirements	72
Programs of Study	73
Cocurricular Opportunities	73
Career Opportunities	73
Faculty	74
Integrated Business Core (IBC)	
Advisory Council	
Majors	
» Accounting — Bachelor of Science	76
» Economics — Bachelor of Arts	77
» Economics — Bachelor of Science	78
» Finance — Bachelor of Science	79
» Global Business	81
» Information Technology Management —	
Bachelor of Science	83
» Management — Bachelor of Science	84
» Marketing	87
» Sport Rusiness Management	89

Minors

» Accounting Minor	90
» Business Administration Minor	90
» Business Analytics Minor	90
» Economics Minor	90
» Entrepreneurship Minor	90
» International Business Minor	90
» International Business for the Non-business	ness
Major Minor	90
» Information Technology Management	
Minor	91
» Marketing Minor	91
» Sport Management Minor	91
School of Business Administration	
Course Descriptions	240

Mission Statement

The mission of the Cedarville University School of Business Administration is to develop business professionals who will influence their organizations through excellence and a biblical worldview.

Given our vision as a school, our broader mission is to become the leader in biblical and innovative business education among Christian colleges and universities.

- To effectively foster academic achievement and personal character, we purpose to create an environment characterized by excellence in teaching, service, intellectual contribution, and collegiality.
- Essential to our mission is the creation of a learning environment that encourages, stimulates, and challenges students and faculty to maximize their personal potential in their chosen field of academic endeavor.
- To facilitate this learning environment, we will use a valuecentered curriculum enhanced by an extensive information technology system and a series of personal and professional development seminars.
- In addition, across the curriculum, we have integrated ethical considerations, global awareness, and an emphasis on oral and written communication skills.
- The distinctive competency of our program is the integration of biblical truth within each of the business disciplines.

In light of our mission, the school has established the following goals:

- We will create a learning environment that encourages, stimulates, and challenges students to maximize their personal potential in the chosen field of academic endeavor.
- We will create a value-centered curriculum enhanced by an emphasis on topics critical to the student's competency in the world of work.
- We will provide faculty with professional and academic opportunities to enhance both teaching competencies and intellectual contributions.
- We will encourage the relationship between the school and significant constituencies that impact our mission and its implementation

Accreditation

The School of Business Administration is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).



Personal Requirements

A college preparatory curriculum in high school provides the best preparation for the bachelor's degree programs in the School of Business Administration. Three or four years of high school mathematics, including calculus, are recommended for students anticipating study in business. No previous coursework in business is necessary. Because of extensive computer utilization in the business curriculum, electives in computer programming or software packages will prove to be helpful.

School Requirements

Although students in the School of Business Administration are not required to apply for admission to the school, continuation is based upon performance in the core business requirements and satisfactory completion of course prerequisites.

Students entering their junior year will be reviewed for continuation by the school Dean.

- Students majoring in business must earn at least a 2.0 GPA in all sophomore-level business courses required for their major in order to graduate with a degree in a business major.
- Students majoring in business must earn at least a "C-" in any
 prerequisite business course before being allowed to enter
 the subsequent course for which that course is a prerequisite.
 Waivers to this requirement are made only in exceptional
 circumstances, and such waivers require the approval of
 the Dean of the school in consultation with the professor
 responsible for the subsequent course.
- In general, business majors should complete all 2000-level business core courses before beginning a 3000-level business course outside their major.
- Before taking a 4000-level business course, students
 must have satisfactorily completed all 2000-level business
 administration core courses required for their major.
 Waivers to this requirement are made only in exceptional
 circumstances, and such waivers require the approval of the
 school Dean.
- To graduate with a major from the School of Business Administration, students must earn at least a 2.0 cumulative average in all courses required for their major and at least a "C-" in all courses taken to meet a specific requirement in their major (cognate courses not included).
- The School of Business Administration requires that a minimum of 50 percent of the specific business course requirements and 50 percent of the requirements for each business major be earned at Cedarville University. A minimum of 50 percent of a business minor must be completed at Cedarville University. Any CLEP or advanced placement credits earned are not considered to be earned at Cedarville University.

School of Business Administration Programs of Study

Programs of Study

The School of Business Administration offers the following programs:

Majors

- Bachelor of Arts
 - Economics
 - · Global Business
 - Marketing
 - · Sport Business Management
- Bachelor of Science
 - · Accounting
 - Economics
 - Finance
 - Information Technology Management
 - Management

Minors

- Accounting
- **Business Administration**
- **Business Analytics**
- **Economics**
- Entrepreneurship
- Information Technology Management
- International Business
- Marketing
- Sport Management

Cocurricular Opportunities

The School of Business Administration provides several cocurricular opportunities for students to enhance their classroom experiences as they prepare for their professional careers.

Accounting Society

The Accounting Society promotes accounting awareness, establishes relationships with professionals in the accounting vocation, provides tutoring for students, and promotes fellowship among accounting students.

Association for Information Systems

The Association for Information Systems (AIS) provides IT Management majors with opportunities to network with those interested in information systems, offers career related information and opportunities to its members, and encourages the pursuit of information systems excellence at Cedarville University.

Delta Mu Delta

Delta Mu Delta, an international honor society in business administration, recognizes junior and senior business majors who maintain excellent scholastic achievement. Delta Mu Delta membership provides recognition for a lifetime.

Enactus

Enactus is an international student organization committed to seeing entrepreneurial action enable human progress. Students in the Cedarville chapter of Enactus teach, mentor, and enable others in the area of entrepreneurship through a variety of projects.

Financial Management Association

The Financial Management Association (FMA) provides students with opportunities to interact with senior financial executives from a variety of businesses. FMA also encourages members to get to know each other better as they begin developing a network of business contacts.

Human Resource Management

Students interested in human resources and labor relations attend the Society for Human Resource Management (SHRM) chapter meetings and interact with working professionals.

Women in Business

Inspires female students of business to succeed professionally and personally by providing a forum for addressing issues relevant to women in business, connecting with modern female business leaders, impacting women in need, and establishing camaraderie among female business students.

Career Opportunities

Accounting Major

Accounting involves the preparation, analysis, and communication of relevant information for decision making. Financial accounting, managerial accounting, auditing, tax accounting, governmental and public sector accounting, accounting information systems, and management consulting services represent the major divisions of the accounting discipline. The accounting major prepares individuals for careers as:

- Auditor
- Budget analyst
- Chief financial officer

- CPA
- FBI agent
- Internal audit IRS agent

Controller **Finance Major**

Finance focuses on the financial decisions faced by business enterprises. This includes methods of raising money, debt management, investment and security analysis, real estate and insurance, and virtually all aspects of finance. The finance major prepares individuals for careers as:

- · Banking representative
- Chief financial officer
- Corporate financial analyst
- Financial planner
- Lending officer
- Portfolio manager
- Securities analyst
- Treasurer

Global Business Major

Global Business is an interdisciplinary program that prepares business students to operate in a multicultural and global marketplace. Careers in international business include working as business professionals in a(n):

- Business as Mission approach
- Position in human resources, finance, or marketing with a multinational company
- International non-government organizations (NGO)

Information Technology Management Major

Businesses and organizations have a strong need for individuals who understand the various business functions and can manage computer and communications technology and information systems within modern organizations. The information technology management major prepares individuals for careers as:

- · Business systems consultant
- Chief Information Officer
- E-business developer
- Information systems analyst
- I.T. Manager
- Business analyst
- Network administrator
- Programmer/analyst
- Web developer

School of Business Administration Faculty

Management Major

Management focuses on developing the leadership skills to make things happen for the business enterprise in a dynamic and competitive environment by organizing people, projects and processes. The management major prepares individuals for careers as:

- · Benefits manager
- Branch manager
- Facility manager
- · Human resource manager
- Materials manager
- Operations analyst
- Operations manager
- Plant manager
- Production manager
- Project manager
- Quality manager
- Risk manager

Marketing Major

A student with a major in marketing learns systematic ways for identifying, understanding, and satisfying consumer and organizational needs. The marketing major prepares individuals for careers as:

- Marketing manager
- Marketing researcher
- Promotion manager
- Retail manager
- Sales manager
- Sales representative

Sport Business Management Major

The world of sport management is more than professional athletes and games. It is big business full of major budget decisions and negotiations. The sport business management major prepares students for a variety of roles in the sport industry, including professional sport organizations, collegiate athletic departments, and other areas such as recreation management and event management. Some career paths include:

- · Athletic business manager
- · Athletic director
- Collegiate/high school sports
- Compliance director
- Event Director
- Facility management
- Professional sports
- Sport information director
- · Sport marketing
- Sporting goods and apparel
- Ticket sales

Faculty

Jeffrey Haymond, Dean; Professor of Economics. Education: B.S., United States Air Force Academy, 1985; M.S., University of Tennessee, 1989; M.A., University of Denver, 1997; Ph.D., George Mason University, 2001. At Cedarville since 2010. Jeffrey Guernsey, Assistant Dean for Undergraduate Programs; Associate Professor of Finance. Education: B.S., Purdue University, 1979; M.Sc., Iowa State University, 1981; D.B.A., Anderson University, 2017. At Cedarville since 2003.

John Delano, Associate Dean for Graduate Programs; Associate Professor of Information Technology Management. *Education:* B.S., Maranatha Baptist Bible College, 1996; M.S., University of Wisconsin-Whitewater, 2001; Ph.D., University of Wisconsin-Milwaukee, 2011. At Cedarville since 2008.

Jon Austin, Associate Professor of Marketing. *Education:* B.A., University of Northern Iowa, 1982; M.S., Iowa State University, 1989; Ph.D., University of Wisconsin-Madison, 1997. At Cedarville since 2001.

Charles Hartman, Associate Professor of Business Law and Accounting. *Education:* B.A., Michigan State University, 1984; M.B.A., Michigan State University, 1984; J.D., University of Dayton School of Law, 1997. At Cedarville since 1989.

Richard J. Melson: *Vice President for Advancement;* Associate Professor of Business Education. B.A., Murray State University, 1993; M.C.M., Southern Baptist Theological Seminary, 1995; Ph.D., Dallas Baptist University, 2014. At Cedarville since 2016.

Diedrich Prigge, Associate Professor of Management. *Education:* B.S., Arizona State University, 2002; M.S., Arizona State University, 2010; Ph.D., Arizona State University, 2013. At Cedarville since 2018.

William Ragle, Associate Professor of Finance. *Education:* B.S., Stephen F. Austin State University, 1976; M.B.A., University of North Texas, 1988; Ph.D., University of North Texas, 1996. At Cedarville since 1995.

Loren Reno, Senior Advisor, Office of the President; Professor of Management. Education: B.A., Cedarville University, 1970; M.S., University of Southern California, 1981. At Cedarville since 2012.

Anne Rich, Professor of Accounting. *Education:* B.A., Cedarville University, 1978; M.S., University of Central Florida, 1978; C.P.A., State of Florida, 1979. At Cedarville since 2000.

Paul Schloemer, Professor of Accounting. *Education:* B.S., Bowling Green State University, 1983; M.Acc., Miami University of Ohio, 1984; Ph.D., Virginia Polytechnic Institute and State University, 1991. At Cedarville since 2017.

Daryl Smith, Associate Professor of Management. *Education:* B.S., United States Air Force Academy, 1984; M.S., Wright State University, 1994; Ph.D., University of Washington Business School, 1999. At Cedarville since 2018.

Daniel Sterkenburg, Associate Professor of Business and Management. *Education:* B.S., Calvin College, 1977; M.P.H., University of Michigan School of Public Health, 1979; M.B.A., Wright State University, 1990; D.B.A., Anderson University, 2017. At Cedarville since 2010.

Janice Supplee, Vice President for Marketing and Communications; Dean of Graduate Studies; Assistant Professor of Business Education. B.A., Cedarville University, 1986; M.B.A., Wright State University, 2001; Ph.D., University of Nebraska, 2014. At Cedarville since 1995.

John K. Tarwater, Associate Professor of Finance. *Education:* B.S., Carson-Newman College, 1991; M.T.S., Duke University, 1993; M.A., Carson-Newman College, 1998; Ph.D., Southeastern Baptist Theological Seminary, 2002; P.h.D., University of Texas Rio Grande Valley, 2018. At Cedarville since 2017.

Susan Terkelsen, Associate Professor of Information Technology. *Education:* B.A., Cedarville University, 1988; M.A., Miami University, 1989. At Cedarville since 1999.

Phoebe Tsai, Associate Professor of Information Technology Management. *Education:* B.B.A., National Chengchi University, 1997; M.B.A., National Chengchi University, 2000; Ph.D., University of Western Ontario, 2010. At Cedarville since 2013. **Bert Wheeler**, Professor of Economics. *Education:* B.S., University of Tennessee, 1981; M.A., University of Tennessee, 1984; Ph.D., University of Tennessee, 1985. At Cedarville since 1992. **Andrew Wonders**, Assistant Professor of Sport Business

Management. *Education:* B.S., Sport Management, Slippery Rock University, 2000; M.S., Sport Administration, University of Northern Colorado, 2006. At Cedarville since 2013.

Emeriti

Galen Smith, Professor Emeritus of Economics. *Education:* B.A., Washburn University, 1966; M.S., Kansas State University, 1968; M.Div., Grace Theological Seminary, 1978; D.Min., Trinity Evangelical Divinity School, 1998. At Cedarville since 1981. Ronald Walker, Professor Emeritus of Management Science. *Education:* B.S., Bowling Green State University, 1965; M.S., University of Michigan, 1966; D.B.A., Kent State University, 1986.

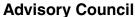
School of Business Administration Integrated Business Core (IBC)

Integrated Business Core (IBC)

The Integrated Business Core (IBC) was initiated by the School of Business Administration of Cedarville University in 2002. The objective of the program is to break down the "silo mentality" present in traditional approaches to business education and help students develop a cross-disciplinary view of business.

Students in the IBC take a prepatory course in marketing in the spring of their sophomore year, followed by Principles of Management and Principles of Finance courses in the fall of their junior year. Students also take the IBC practicum, where they put their business skills learned in the principles courses to work. As part of the practicum, students form their own company, write a business plan, obtain a loan, implement their plan, make a profit, and close down operations. While running their company, they choose a local nonprofit organization to contribute a minimum of 10 hours of work per student and all of their profits at the end of the semester.

The IBC gives students more ownership of the learning process and provides practical, real-life experience of actually doing what they are learning about. In the years since its inception at Cedarville University, IBC students have donated 7,200 hours of service and \$56,000 to nonprofit organizations.



The School of Business Administration advisory council consists of entrepreneurs, business leaders, and educators representing diverse areas of business. Through annual meetings, these experts advise the University and evaluate its plans for strengthening Cedarville's position of leadership in undergraduate business education.

Board members include:

Mr. Ronald Baker, Executive Management Consulting

Mr. Dick Blanc, Accenture

Mr. Joel Campbell, H&R Block

Ms. Connie Carr, Seeley, Savidge, Ebert and Gourash

Mr. Devin Cheek, Rolls Royce

Mr. Mike Crawford, College For Less, Inc.

Mr. Louie D'Amico, (Givaudan)

Mrs. Deborah Dishong, U.S. Silica

Mr. Dan Douglas, NiSource, Inc.

Mr. Zachary Franklin, Hoover Uprights

Ms. Lori Greenawalt, KPMG

Mr. Jon Greenwood, Huntington Bank

Mr. Darrin Grove, Trufit

Mr. David Judson, JJR Solutions

Mr. Greg Meredith, Lee Plastic

Mr. Joshua Overholt, Investment Counselors of Maryland

Mr. Travis Smith, Valet Living

Mr. Matt Boehm, PrefTech



School of Business Administration Accounting — Bachelor of Science

Accounting — Bachelor of Science

The **Bachelor of Science degree in accounting** prepares students for careers in private, public, and corporate accounting as well as other business-related areas.

ACCT-2120 Principles of Accounting II
ACCT-3120 Intermediate Financial Accounting II
ACCT-3150 Accounting Information Systems
ACCT-3170 Managerial Accounting
ACCT-4110 Federal Income Tax
ACCT-4120 Auditing
BUS-1000 The Business Profession
BUS-2150 Statistics for Business
BUS-2180 Business Law I
BUS-3000 The Business Experience
BUS-3150 Operations Analysis
BUS-3910 International Business
BUS-4420 Business Ethics and Social Responsibility
ECON-2330 Microeconomics
ECON-2340 Macroeconomics
FIN-3710 Principles of Finance
ITM-1510 Software Tools for Business
MGMT-3500 Principles of Organization and Management
*MGMT-4510 Strategic Management
MRKT-3600 Principles of Marketing
Accounting electives selected from the following
ACCT-4130 Advanced Financial Accounting 3 ACCT-4150 Government and Non Profit Accounting 3 ACCT-4170 Advanced Managerial Accounting 3 ACCT-4210 Taxation of Business Entities 3 ACCT-4220 International Accounting 3 BUS-3180 Business Law II 3 *Capstone Course 3 *Capstone Course 3 *GMTH-1020 College Algebra 3 (Satisfies quantitative requirement for general education core.) *Accounting Major Curriculum Summary Proficiency Requirements 0-4 General Education Requirements 48 Accounting Major Requirements 70 Required Cognate 3 Electives 7 Total (minimum, not including proficiency) 128 The CPA concentration reflects the state of Ohio requirements of 150 semester hours of undergraduate or graduate education,
ACCT-4150 Government and Non Profit Accounting
ACCT-4170 Advanced Managerial Accounting
ACCT-4210 Taxation of Business Entities 3 ACCT-4220 International Accounting 3 BUS-3180 Business Law II 3 *Capstone Course Required Cognate 3 (Satisfies quantitative requirement for general education core.) Accounting Major Curriculum Summary Proficiency Requirements 0–4 General Education Requirements 48 Accounting Major Requirements 70 Required Cognate 3 Electives 7 Total (minimum, not including proficiency) 128 The CPA concentration reflects the state of Ohio requirements of 150 semester hours of undergraduate or graduate education,
ACCT-4220 International Accounting
BUS-3180 Business Law II
BUS-3180 Business Law II
*Capstone Course Required Cognate
Required Cognate
GMTH-1020 College Algebra
GMTH-1020 College Algebra
(Satisfies quantitative requirement for general education core.) Accounting Major Curriculum Summary Proficiency Requirements
Accounting Major Curriculum Summary Proficiency Requirements
Proficiency Requirements
Proficiency Requirements
General Education Requirements
Accounting Major Requirements
Required Cognate
Total (minimum, not including proficiency)
Total (minimum, not including proficiency)
The CPA concentration reflects the state of Ohio requirements of 150 semester hours of undergraduate or graduate education,
of 150 semester hours of undergraduate or graduate education,
including 20 hours of accounting courses combined with
including 30 nours of accounting courses combined with
several specific business and elective courses. Students
desiring to pursue a license in other states should investigate
the requirements of those specific states. States with websites,
and all addresses, can be found on the website of the National
Association of State Board of Accountancy at nasba.org .

Students may qualify for the Ohio requirements by completing the 128 semester hours plus additional 22 semester hours including some additional accounting electives. The course plan

 Although not specifically required by the state of Ohio, the following courses include materials that are covered in the CPA exam and are recommended for all accounting majors preparing to take the CPA exam. Several of these courses are required by other states.

ACC 1-4 150 Government and Nonprotit Accounting	3
ACCT-4210 Taxation of Business Entities	3
ACCT-4810 Seminar in Accounting	1
BUS-2100 Business Communication	
BUS-3180 Business Law II	3

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Accounting

First year: ACCT-2110 Principles of Accounting I 3 ACCT-2120 Principles of Accounting II 3 BTGE-1725 The Bible and the Gospel 3 BUS-1000 The Business Profession 2 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 ITM-1510 Software Tools for Business 2 Biological Science Elective 3.5 Total 31.5
Second year: 3 ACCT-3110 Intermediate Financial Accounting I 3 ACCT-3120 Intermediate Financial Accounting II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BUS-2150 Statistics for Business 3 BUS-2180 Business Law I 3 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 PEF-1990 Physical Activity and Healthy Living 2 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Total 32.5
Third year: ACCT-3150 Accounting Information Systems 3 ACCT-3170 Managerial Accounting 3 ACCT-4120 Auditing 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3150 Operations Analysis 3 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Electives 3 Total 34
Fourth year: ACCT-4110 Federal Income Taxes 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 Accounting Electives 9 History Elective 3 Humanities Elective 3 Social Science Elective 3 Electives 4 Total 30

includes the following:

School of Business Administration Economics — Bachelor of Arts

Economics — Bachelor of Arts

The **Bachelor of Arts degree with a major in economics** prepares students for success in a wide variety of careers. Although various roles in businesses are most common, economic majors are successful in law, medicine, government, nonprofit, and international relations, as well as in academic roles.

Course requirements involve 68 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	3
BUS-2180 Business Law I	3
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
ECON-3335 Intermediate Microeconomics	3
ECON/HIST-3340 History of Economic Thought	3
ECON-3345 Intermediate Macroeconomics	3
ECON/PUAD-3390 Public Finance	3
FIN-3710 Principles of Finance	3
GSS-3650 Quantitative Methodology	3
ITM-1510 Software Tools for Business	2
MGMT-3500 Principles of Organization and Management	3
*MGMT-4510 Strategic Management	3
MRKT-3600 Principles of Marketing	3

Economics concentrations selected from	24
BUS-3150 Operations Analysis	3
ECON-3310 Money and Financial Markets	
ECON-3350 Comparative Economic Systems	
ECON-3360 International Trade Economics	
ECON-3380 Economic Development	
and Political Economy	3
ECON-3410 Special Topics in Political Economy	
Select two of the following	6
HIST-3230 History and Politics of Western Europe	3
POLS-3690 Public Policy	
POLS-3730 American Political Thought	3
POLS-4630 American Constitutional Law - Civil	
Liberties and Rights	3
POLS-4640 American Constitutional Law - Governme	nt
Powers and Federalism	3

Political Economy concentration	
ECON-3350 Comparative Economic Systems	3
ECON-3410 Special Topics in Political Economy	3
HIST-3120 History of Recent and Contemporary America	3
HIST-3720 History of Political Thought II	3
POLS-3790 Comparative Politics	3
POLS-4640 American Constitutional Law - Government	
Powers and Federalism	3
Select one of the following	3
ECON-3310 Money and Financial Markets	3
ECON-3360 International Trade Economics	3
ECON-3380 Economic Development	
and Political Economy	3
Select one of the following	3
POLS-3690 Public Policy	3
POLS-3730 American Political Thought	
POLS-4630 American Constitutional Law: Civil –	
Liberties and Rights	3
Capstone Course	

Required Cognate	
GMTH-1020 College Algebra	
(Satisfies quantitative requirement for general education c	

Economics — B.A. Major Curriculum Summary	
Proficiency Requirements	0-4
General Education Requirements	42-50
Economics Major Requirements	68
Required Cognate	3
Electives	
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Economics — B.A.

First year:
BTGE-1725 The Bible and the Gospel3
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GMTH-1020 College Algebra3
GSS-1100 Politics and American Culture3
HUM-1400 Introduction to the Humanities3
ITM-1510 Software Tools for Business2
Biological Science Elective
Physical Science Elective
Humanities Elective/Global Awareness
General Elective
Total
Second year:
ACCT-2110 Principles of Accounting I
ACCT-2120 Principles of Accounting II
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature3
BUS-2180 Business Law I3
ECON-2330 Microeconomics3
ECON-2340 Macroeconomics3
GSS-3650 Quantitative Methodology3
PEF-1990 Physical Activity and Healthy Living2
LIT-2XXX Literature Elective
Concentration Elective
Total
Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
ECON-3335 Intermediate Microeconomics
ECON-3345 Intermediate Macroeconomics
FIN-3710 Principles of Finance3
MGMT-3500 Principles of Organization and Management3
MRKT-3600 Principles of Marketing3
Concentration Electives9
General Electives3
Total
Fourth year:
ECON/HIST-3340 History of Economic Thought
ECON/PUAD-3390 Public Finance
MGMT-4510 Strategic Management
Concentration Electives
General Electives
Total

School of Business Administration Economics — Bachelor of Science

Economics — Bachelor of Science

The **Bachelor of Science degree with a major in economics** prepares students for success in a wide variety of careers. Although various roles in businesses are most common, economic majors are successful in law, medicine, government, nonprofit, and international relations, as well as in academic roles Students will be prepared for graduate study in fields of economics, business, public administration, public policy, and law.

Course requirements involve 68 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	3
BUS-2180 Business Law I	
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
ECON-3335 Intermediate Microeconomics	3
ECON/HIST-3340 History of Economic Thought	
ECON-3345 Intermediate Macroeconomics	
ECON/PUAD-3390 Public Finance	
FIN-3710 Principles of Finance	3
GSS-3650 Quantitative Methodology	3
ITM-1510 Software Tools for Business	
MGMT-3500 Principles of Organization and Management	
*MGMT-4510 Strategic Management	
MRKT-3600 Principles of Marketing	3
3	
Economics concentrations selected from	24
*Business Analytics concentration	
BUS-2170 Introduction to Business Analytics	3
BUS-3150 Operations Analysis	
BUS-4150 Advanced Business Analytics and Visualization	3
ECON-3375 Mathematical Economics	3
ECON-4110 Introduction to Econometrics	
ITM-2100 Database Management	3
Select two of the following	6
ECON-3310 Money and Financial Markets3	
ECON-3350 Comparative Economic Systems3	
ECON-3360 International Trade Economics3	
ECON-3380 Economic Development	
and Political Economy3	
ECON-3410 Topics in Economics3	
*Students opting to take the Business Analytics concentration are not eligible to	take
the Business Analytics minor.	
Political Economy concentration	
ECON-3375 Mathematical Economics	
ECON-4110 Introduction to Econometrics	
HIST-3120 History of Recent and Contemporary America	3
HIST-3720 History of Political Thought II	
POLS-3790 Comparative Politics	
Select three of the following	9
ECON-3310 Money and Financial Markets3	

Economics — B.S. Major Curriculum Summary	
Proficiency Requirements	0-4
General Education Requirements	42
Economics Major Requirements	68
Required Cognate	5
Electives	13
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Economics — B.S.

First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 ITM-1510 Software Tools for Business 2 MATH-1710 Calculus I 5 Biological Science Elective 3.5 Physical Science Elective 3.5 Humanities Elective 3 Total 32
Second year: 3 ACCT-2110 Principles of Accounting I 3 ACCT-2120 Principles of Accounting II 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 BUS-2180 Business Law I 3 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 GSS-3650 Quantitative Methodology 3 PEF-1990 Physical Activity and Healthy Living 2 LIT-2XXX Literature Elective 3 General Elective 3 Total 32
Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 ECON-3335 Intermediate Microeconomics 3 ECON-3345 Intermediate Macroeconomics 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 Concentration Electives 9 General Electives 3 Total 33
Fourth year: 3 ECON/HIST-3340 History of Economic Thought 3 ECON/PUAD-3390 Public Finance 3 MGMT-4510 Strategic Management 3 Concentration Electives 15 General Electives 7 Total 31

*Capstone Course

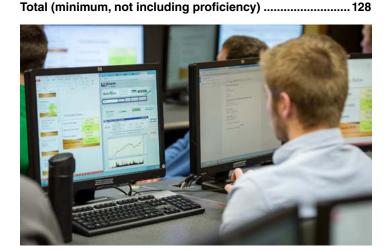
School of Business Administration Finance — Bachelor of Science

Finance — Bachelor of Science

The **Bachelor of Science degree in finance** prepares students for careers as financial analysts, security analysts, financial planners, or account executives within the banking, insurance, and securities industries and other commercial concerns.

Course requirements involve 63 semester nours including:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	3
BUS-1000 The Business Profession	2
BUS-2150 Statistics for Business	3
BUS-2180 Business Law I	3
BUS-3000 The Business Experience	1
BUS-3150 Operations Analysis	3
BUS-3910 International Business	3
BUS-4420 Business Ethics and Social Responsibility	2
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
FIN-3310 Money and Financial Markets	3
FIN-3710 Principles of Finance	3
FIN-3730 Investments	3
FIN-4770 Advanced Financial Management	
ITM-1510 Software Tools for Business	
ITM-3410 Topics in Information Technology Management	2
MGMT-3500 Principles of Organization and Management	3
*MGMT-4510 Strategic Management	3
MRKT-3600 Principles of Marketing	3
Finance Electives selected from	9
ACCT-3110 Intermediate Financial Accounting I	3
FIN-3750 International Finance	3
FIN-3760 Financial Planning	3
FIN-3770 Security Analysis and Portfolio Management	3
FIN-4715 Applied Portfolio Management (requires three	
one-hour credits)	
FIN-4750 Financial Institution Management	3
*Capstone Course	

Required Cognate	3
GMTH-1020 College Algebra	3
(Satisfies quantitative requirement for general education core	e.)



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Finance

BTGE-1725 The Bible and the Gospel	3
BUS-1000 The Business Profession	2
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GMTH-1020 College Algebra	2
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
ITM-1510 Software Tools for Business	
Biological Science Elective	5
History Elective	3
Physical Science Elective	5
Total	
	_
Second year:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	3
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
BUS-2150 Statistics for Business	
BUS-2180 Business Law I	3
ECON-2330 Microeconomics	
ECON-2340 Macroeconomics	3
FIN-3710 Principles of Finance	
PEF-1990 Physical Activity and Healthy Living	2
Social Science Elective	2
Total	
10tal	_
	_
Third year:	
Third year:	
BTGE-3755 Theology I	3
BTGE-3755 Theology I	3
BTGE-3755 Theology I	3 3 1
BTGE-3755 Theology I	3 3 1 3
BTGE-3755 Theology I	3 3 1 3
BTGE-3755 Theology I	3 3 1 3 3
BTGE-3755 Theology I	3 3 1 3 3
BTGE-3755 Theology I	3 3 1 3 3 3
BTGE-3755 Theology I	3 3 1 3 3 3 3
BTGE-3755 Theology I	3 3 1 3 3 3 3 3 2
BTGE-3755 Theology I	3 3 1 3 3 3 3 3 3 3
BTGE-3755 Theology I	3 3 1 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total 3	3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total 3 Fourth year:	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total Sourth year: BUS-4420 Business Ethics and Social Responsibility.	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total Fourth year: BUS-4420 Business Ethics and Social Responsibility FIN-4770 Advanced Financial Management	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business. FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total South year: BUS-4420 Business Ethics and Social Responsibility. FIN-4770 Advanced Financial Management MGMT-4510 Strategic Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business. FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total Fourth year: BUS-4420 Business Ethics and Social Responsibility. FIN-4770 Advanced Financial Management MGMT-4510 Strategic Management LIT-2XXX Literature Elective	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business. FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total South year: BUS-4420 Business Ethics and Social Responsibility. FIN-4770 Advanced Financial Management MGMT-4510 Strategic Management	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business. FIN-3310 Money and Financial Markets FIN-3730 Investments ITM-3410 Topics in Information Technology Management MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing Humanities Elective Finance Electives Total Fourth year: BUS-4420 Business Ethics and Social Responsibility. FIN-4770 Advanced Financial Management MGMT-4510 Strategic Management LIT-2XXX Literature Elective	3 3 1 3 3 3 3 3 3 3 3 3 3 6

School of Business Administration Finance — Bachelor of Science

Suggested Three-Year Curriculum for a Major in Finance

Fall Year 1: 3 ACCT-2110 Principles of Accounting I 3 BTGE-1725 The Bible and the Gospel 3 BUS-1000 The Business Profession 2 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 ITM-1510 Software Tools for Business 2 Total 16
Spring Year 1 3 ACCT-2120 Principles of Accounting II 3 BTGE-2730 Old Testament Literature 3 BUS-2180 Business Law I 3 COM-1100 Fundamentals of Speech 3 Electives 5 Total 17
Summer Year 1 BTGE-2740 New Testament Literature 3 BUS-2150 Statistics for Business 3 GSS-1100 Politics and American Culture 3 Physical Science Elective 3.5 Elective 3 Total 15.5
Fall Year 2:BUS-3150 Operations Analysis3ECON-2330 Microeconomics3FIN-3710 Principles of Finance3ITM-3410 Topics in Information Technology Management2MGMT-3500 Principles of Organization and Management3PEF-1990 Physical Activity and Healthy Living2Electives1Total17
Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 FIN-3730 Investments 3 MRKT-3600 Principles of Marketing 3 Social Sciences Elective 3
Total
Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Electives 3





School of Business Administration Global Business

Global Business

The **global business major** falls under the Bachelor of Arts degree and provides students with a global view of business. Utilizing courses in business, culture, and language, this program prepares business-oriented students for careers that involve global business interactions or working abroad.

Course requirements involve 82–83 hours, including:	
Global Studies core	17
ANTH-1800 Cultural Anthropology	
BTPA-2260 World Religions	3
BUS-3910 International Business	
COM-2140 Intercultural Communication	3
INTL-2100 Global Issues	3
Electives (approved by department)	2
Global Studies Area focus (choose one)16	<u>-17</u>
Area Studies — Asia	
**CHN-1100 Elementary Chinese I	4
**CHN-1200 Elementary Chinese II	1
ECON-3380 Economic Development and Political Economy	2
HIST-3210 History and Politics of East Asia	ა ი
LIT 0400 Contemporary Foot Asian Literature	ა ი
LIT-3460 Contemporary East Asian Literature	3
Area Studies — Latin America	_
ECON-3380 Economic Development and Political Economy	
INTL-3200 History and Politics of Latin America	3
***SPAN-2710 Intermediate Spanish I	
***SPAN-2720 Intermediate Spanish II	3
SPAN-3640 Introduction to Hispanic Literature	3
Area Studies — Middle East	
**ARBC-1410 Elementary Arabic I	4
**ARBC-1420 Elementary Arabic II	4
ECON-3380 Economic Development and Political Economy	3
INTL-3220 History and Politics of Middle East	3
LIT-2330 World Mythology	
Area Studies — Western Europe	•
ECON-3380 Economic Development and Political Economy	3
***FREN/SPAN/GER-2XXX Intermediate Foreign Language	<i>1</i>
***FREN/SPAN/GER-2XXX Intermediate Foreign Language	
INTL-3230 History and Politics of Western Europe	
LIT 2000 Morld Muthology	ა ი
LIT-2330 World Mythology	ა ეუ
ACCT-2110 Principles of Accounting I	
ACCT-2120 Principles of Accounting II	3
BUS-1000 The Business Profession	2
BUS-2150 Statistics for Business	
BUS-2180 Business Law I	3
BUS-3000 The Business Experience	1
BUS-4420 Business Ethics and Social Responsibility	2
ECON-2330 Microeconomics	
ECON-2340 Macroeconomics	
FIN-3710 Principles of Finance	3
ITM-1510 Software Tools for Business	2
MGMT-3500 Principles. of Organization and Management	3
*MGMT-4510 Strategic Management	
MRKT-3600 Principles of Marketing	3
Global Business concentration (choose one)	<u>.</u> 12
Accounting concentration	
ACCT-3110 Intermediate Financial Accounting I	3
ACCT-3120 Intermediate Financial Accounting I	
ACCT-3170 Managerial Accounting	
ACCT-4220 International Accounting	
Economics concentration	J
	2
ECON-3335 Intermediate Microeconomics	
ECON-3340 History of Economic Thought	
ECON-3350 Comparative Economic Systems	
ECON-3360 International Trade and Economics	3

Entrepreneurship concentration	
MGMT-3511 Entrepreneurship and Small Business Strategy	/3
MGMT-3512 Entrepreneurship and Small Business Finance	3
MGMT-3570 International Management	. 3
MRKT-4620 International Marketing	
Finance concentration	
FIN-3310 Money and Financial Markets	. 3
FIN-3730 Investments	
FIN-3750 International Finance	. 3
FIN-4770 Advanced Financial Management	
Information Technology Management concentration	
ITM-1900 Fundamentals of IT Management	. 3
ITM-2100 Database Management	
ITM-3400 Data Communications and Networking	. 3
ITM-3600 Business Process Management	
Management concentration	
MGMT-3530 Human Resources Management	. 3
MGMT-3550 Organizational Behavior	
MGMT-3570 International Management	
MGMT-4550 Applied Leadership	. 3
Marketing concentration	
MRKT-3610 Sales/Sales Management Systems	. 3
MRKT-3650 Consumer Behavior	. 3
MRKT-4610 Marketing Strategy	. 3
MRKT-4620 International Marketing	. 3
Sport Managment concentration	
SMGT-2100 Sport in Society	. 3
SMGT-2500 Organizational Behavior in Sport	
SMGT-4100 Sponsorship and Promotion in Sport Industry	. 3
SMGT-4200 Financing Sport Operations	
*Capstone Course	
**or other approved language and equivalent to two semesters of university stu	dy
$^{\star\star\star}\text{or}$ other approved language and equivalent to four semesters of university st	udy
In addition to these requirements, students must fulfill an eight-week foreign cul	lture
experience. Possible options include: study abroad or foreign internships.	
Approval should be obtained from the Cohool of Dusiness Associate Doop. This	

In addition to these requirements, students must fulfill an eight-week foreign culture experience. Possible options include: study abroad or foreign internships. Approval should be obtained from the School of Business Associate Dean. This requirement is generally not fulfilled by travel overseas or minimum Global Outreach experience.

Required Cognate	3
GMTH-1020 College Algebra	3
(Satisfies quantitative requirement for general education of	ore.)

Global Business Curriculum Summary:

School of Business Administration Global Business

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Global Business

First year:	
ANTH-1800 Cultural Anthropology	
BTGE-1725 The Bible and the Gospel	
BTGE-2730 Old Testament Literature	
BUS-1000 The Business Profession	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMTH-1020 College Algebra3	
GSS-1100 Politics and American Culture3	
HUM-1400 Introduction to the Humanities3	
ITM-1510 Software Tools for Business2	
Biology Elective	
Global Studies Core Elective2	
Total	
Second year:	
ACCT-2110 Principles of Accounting I	
ACCT-2120 Principles of Accounting II	
BTGE-2740 New Testament Literature	
BTGE-3755 Theology I	
BTPA-2260 World Religions	
BUS-2180 Business Law I	
ECON-2330 Microeconomics	
PEF-1990 Physical Activity and Healthy Living2	
MRKT-3600 Principles of Marketing	
Global Studies Area Focus	
Total	
Third year:	
BTGE-3765 Theology II	
BUS-3000 The Business Experience	
BUS-4420 Business Ethics and Social Responsibility	
ECON-2340 Macroeconomics	
FIN-3710 Principles of Finance	
MGMT-3500 Principles of Organization and Management	
Global Studies Area Focus	
Global Studies Concentration Requirements	
Electives	
Total 30	
10tal50	
Fourth year:	
BUS-3910 International Business	
INTL-2100 Global Issues	
MGMT-4510 Strategic Management3	
Global Studies Area Focus5	
Global Studies Concentration Requirements9	
LIT-2XXX Literature Elective	
Physical Science Elective	
Total 20 F	





CEDARVILLE UNIVERSITY.

School of Business Administration Information Technology Management — Bachelor of Science

Information Technology Management — Bachelor of Science

The Bachelor of Science degree in information technology management major prepares students for careers such as application developers, business analysts, database administrators, network administrators, IT project managers, or IT consultants. The curriculum follows guidelines established by the Association for Information Systems (AIS) and the Association for Computing Machinery (ACM) for the training of IT professionals in a business context.

Course requirements involve 69 semester hours including:	_
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	
BUS-1000 The Business Profession	
BUS-2150 Statistics for Business	
BUS-2180 Business Law I	
BUS-3000 The Business Experience	
BUS-3910 International Business	
BUS-4420 Business Ethics and Social Responsibility	
ECON-2330 Microeconomics	
FIN-3710 Principles of Finance	
ITM-1510 Software Tools for Business	
ITM-1900 Fundamentals of IT Management	
ITM-2100 Database Management	
ITM-2300 Introduction to Programming	
ITM-3400 Data Communications and Networking	
ITM-3410 Topics in Information Technology Management	
ITM-3550 Enterprise Architecture	
ITM-4400 System Analysis and Design	
*ITM-4900 IT Strategy	
MGMT-3500 Principles of Organization and Management	
MRKT-3600 Principles of Marketing	3
Information Technology Management electives	.12
ITM-3XXX or 4XXX electives12	
*Capstone Course	
Required Cognate	3
GMTH-1020 College Algebra3	
(Satisfies quantitative requirement for general education core.)	
(,	
Information Technology Management Major Curriculum	
Summary	
Proficiency Requirements)–4
General Education Requirements	
Information Systems Major Requirements	
Required Cognate	
Electives	
Total (minimum, not including proficiency)1	28

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Information Technology Management

First year:	
BTGE-1725 The Bible and the Gospel	3
BUS-1000 The Business Profession	2
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
GMTH-1020 College Algebra	3
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3
ITM-1510 Software Tool for Business	
ITM-1900 Fundamentals of IT Management	
Humanities Elective	3
Social Science Elective	3
Total	31
Second year:	_
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
BUS-2150 Statistics for Business	
BUS-2180 Business Law I	3
ITM-2100 Database Management	3
ITM-2300 Introduction to Programming	
ITM-3410 Topics in Information Technology Management	2
PEF-1990 Physical Activity and Healthy Living	2
Biological Science Elective	.3.5
Total	31.5
	31.5
Third year:	
Third year: BTGE-3755 Theology I	3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II	3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience	3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business	3 3 1
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business ECON-2330 Microeconomics	3 1 3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business ECON-2330 Microeconomics FIN-3710 Principles of Finance	3 1 3 3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business ECON-2330 Microeconomics FIN-3710 Principles of Finance ITM-3400 Data Communications and Networking	3 1 3 3
Third year: BTGE-3755 Theology I	3 1 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3
Third year: BTGE-3755 Theology I	3 1 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business ECON-2330 Microeconomics FIN-3710 Principles of Finance ITM-3400 Data Communications and Networking ITM-3550 Enterprise Architecture MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing ITM-3XXX or 4XXX Electives Total	3 3 3 3 3 3
Third year: BTGE-3755 Theology I	33333333
Third year: BTGE-3755 Theology I	333333333333
Third year: BTGE-3755 Theology I	333333333333
Third year: BTGE-3755 Theology I	333333333333333
Third year: BTGE-3755 Theology I	333333333333634
Third year: BTGE-3755 Theology I	333
Third year: BTGE-3755 Theology I	33333333333333333333333333
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-3000 The Business Experience BUS-3910 International Business ECON-2330 Microeconomics FIN-3710 Principles of Finance. ITM-3400 Data Communications and Networking ITM-3550 Enterprise Architecture MGMT-3500 Principles of Organization and Management MRKT-3600 Principles of Marketing ITM-3XXX or 4XXX Electives Total Fourth year: BUS-4420 Business Ethics and Social Responsibility. ITM-4400 Systems Analysis and Design ITM-4900 IT Strategy ITM-4900 IT Strategy ITM-3XXX or 4XXX Electives History Elective LIT-2XXX Literature Elective Physical Science Elective	333
Third year: BTGE-3755 Theology I	333

School of Business Administration Management — Bachelor of Science

Management — Bachelor of Science

The Bachelor of Science degree in management provides a broad background for careers in financial, manufacturing, retailing, and service industries, as well as governmental agencies. Management majors focus on organizational dynamics and operations as well as international issues that affect various types of organizations. With the broad scope of the management major, students can select courses within their area of interests, whether it be human resources management, operations management, organizational leadership, or entrepreneurship and small business management.

Course requirements involve 69 semester hours including:
ACCT-2110 Principles of Accounting I
ACCT-2120 Principles of Accounting II
BUS-1000 The Business Profession2
BUS-2100 Business Communication
BUS-2150 Statistics for Business
BUS-2180 Business Law I
BUS-3000 The Business Experience
BUS-3150 Operations Analysis3
BUS-3910 International Business
BUS-4420 Business Ethics and Social Responsibility2
ECON-2330 Microeconomics
ECON-2340 Macroeconomics 3
FIN-3710 Principles of Finance
ITM-1510 Software Tools for Business
ITM-1310 Software 1001s for Business2
or ENTR-1020 Introduction to Entrepreneurship
MGMT-3500 Principles of Organization and Management3
MGMT-3560 Project Management
*MGMT-4510 Strategic Management3
MGMT-4550 Applied Leadership
MRKT-3600 Principles of Marketing3
PWID-3010 Style and Mechanics for Writers
MGMT-3520 Production and Operations Management3
or MGMT-4540 Service Operations Management3
**M
**Management Electives Tracks – choose one9
Human Resource Management Track9
MGMT-3530 Human Resource Management3
MGMT-3580 Compensation and Benefits Management3
MGMT-4530 Industrial Relations Management3
Operations Management Track9
ITM-3600 Business Process Management3
MGMT-4520 Supply Chain Management3
MGMT-4570 Lean Operations Management3
General Management Track9
MGMT-3XXX/4XXX electives, as approved by advisor9
*Capstone Course
**Students pursuing multiple tracks must complete a minimum of 9 hours of unique
coursework for each track.
Required Cognate3
GMTH-1020 College Algebra3
(Satisfies quantitative requirement for general education core.)
(Jansies quantitative requirement for general education core.)
Management Major Curriculum Summary
Proficiency Requirements0–4
General Education Requirements48

Management Major Requirements 69
Required Cognate 8
Electives 8
Total (minimum, not including proficiency) 128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Management

First year:	
BTGE-1725 The Bible and the Gospel	3
BUS-1000 The Business Profession	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMTH-1020 College Algebra	.3
GSS-1100 Politics and American Culture	.3
HUM-1400 Introduction to the Humanities	
ITM-3410 Topics in Information Technology Management	2
(or ENTR-1020 Introduction to Entrepreneurship	2)
ITM-1510 Software Tools for Business	2
PEF-1990 Physical Activity and Healthy Living	.2
History Elective	.3
Physical Science Elective	5
Total	.5
Second year:	
ACCT-2110 Principles of Accounting I	.3
ACCT-2120 Principles of Accounting II	
BTGE-2730 Old Testament Literature	.3
BTGE-2740 New Testament Literature	.3
BUS-2150 Statistics for Business	.3
BUS-2180 Business Law I	
ECON-2330 Microeconomics	.3
ECON-2340 Macroeconomics	
MGMT-3500 Principles of Organization and Management	
PWID-3010 Style and Mechanics for Writers	.3
Total	
Third year:	30
Third year: BTGE-3755 Theology I	.3
Third year: BTGE-3755 Theology IBTGE-3765 Theology II	.3 .3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-2100 Business Communication	.3 .3 .3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-2100 Business Communication BUS-3000 The Business Experience	.3 .3 .3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-2100 Business Communication BUS-3000 The Business Experience BUS-3150 Operations Analysis	.3 .3 .3 .1
Third year: BTGE-3755 Theology I	.3 .3 .3 .1 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .1 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .1 .3 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .1 .3 .3 .3 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .1 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .3 .3 .5
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .3 .3 .5 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .3 .3 .5 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .5 .3 .1.5
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .5 .3 .1.5
Third year: BTGE-3755 Theology I BTGE-3765 Theology II BUS-2100 Business Communication BUS-3000 The Business Experience BUS-3150 Operations Analysis BUS-3910 International Business FIN-3710 Principles of Finance MGMT-3520 Production and Operations Management (or MGMT-4540 Service Operations Management MRKT-3600 Principles of Marketing Biological Science Elective	30 .3 .3 .1 .3 .3 .3 .3 .5 .3 .1.5
Third year: BTGE-3755 Theology I	33 .3 .3 .3 .3 .3 .3 .5 .3 .1.5 .2 .3
Third year: BTGE-3755 Theology I	33 3 3 3 3 3 3 3 5 3 5 3 5 3 5 3 5 3 5
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .3 .3 .3 .3 .5 .3 1.5 .2 .3 .3 .3
Third year: BTGE-3755 Theology I	30 33 33 31 33 33 33 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
Third year: BTGE-3755 Theology I	30 33 33 31 33 33 33 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36
Third year: BTGE-3755 Theology I. BTGE-3765 Theology II. BUS-2100 Business Communication. BUS-3000 The Business Experience. BUS-3150 Operations Analysis. BUS-3910 International Business. FIN-3710 Principles of Finance. MGMT-3520 Production and Operations Management (or MGMT-4540 Service Operations Management MRKT-3600 Principles of Marketing. Biological Science Elective. 3LIT-2XXX Literature Elective. Total	30 3331333333533 535 2333933

School of Business Administration Management — Bachelor of Science

Suggested Three-Year Curriculum for a Major in Management – General

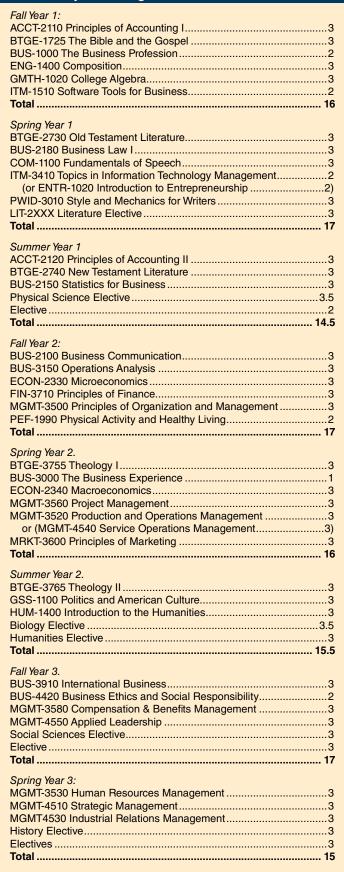
Fall Year 1: BTGE-1725 The Bible and the Gospel3 ENG-1400 Composition......3 GMTH-1020 College Algebra.....3 ITM-1510 Software Tools for Business......2 Total 16 BTGE-2730 Old Testament Literature......3 ITM-3410 Topics in Information Technology Management.....2 (or ENTR-1020 Introduction to Entrepreneurship2) PWID-3010 Style and Mechanics for Writers3 Total17 Summer Year 1 COM-1100 Fundamentals of Speech......3 Elective3 Total 15.5 Fall Year 2: ECON-2330 Microeconomics......3 FIN-3710 Principles of Finance......3 PEF-1990 Physical Activity and Healthy Living......2 Total 17 Spring Year 2. BTGE-3755 Theology I......3 BUS-3000 The Business Experience1 ECON-2340 Macroeconomics......3 MGMT-3560 Project Management......3 MGMT-3520 Production and Operations Management3 (or MGMT-4540 Service Operations Management......3) Total 16 HUM-1400 Introduction to the Humanities......3 Humanities Elective3 Social Sciences Elective......3 Total15.5 Fall Year 3. BUS-4420 Business Ethics and Social Responsibility......2 Management Electives6 Elective5 Total 16 Spring Year 3: GSS-1100 Politics and American Culture......3 MGMT-4550 Applied Leadership3 Management Electives3 History Elective......3 Total 15

Suggested Three-Year Curriculum for a Major in Management – Operations

Fall Year 1:
ACCT-2110 Principles of Accounting I
BTGE-1725 The Bible and the Gospel
ENG-1400 Composition
GMTH-1020 College Algebra3
ITM-1510 Software Tools for Business2
Total
Spring Year 1
BTGE-2730 Old Testament Literature
BUS-2180 Business Law I
ITM-3410 Topics in Information Technology Management
(or ENTR-1020 Introduction to Entrepreneurship2)
PWID-3010 Style and Mechanics for Writers
LIT-2XXX Literature Elective
Summer Year 1
ACCT-2120 Principles of Accounting II
BUS-2150 Statistics for Business
Physical Science Elective
Elective
Total
Fall Year 2:
BUS-2100 Business Communication
BUS-3150 Operations Analysis
FIN-3710 Principles of Finance
MGMT-3500 Principles of Organization and Management3
PEF-1990 Physical Activity and Healthy Living2
Total
Total
Total 17 Spring Year 2. BTGE-3755 Theology I 3
Total 17 Spring Year 2. 3 BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1
Total 17 Spring Year 2. BTGE-3755 Theology I 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3 MRKT-3600 Principles of Marketing 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3 MRKT-3600 Principles of Marketing 3 Total 16
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2.
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2.
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 or (MGMT-4540 Service Operations Management 3 or (MGMT-4540 Service Operations Management 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 or (MGMT-4540 Service Operations Management 3 or (MGMT-4540 Service Operations Management 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 or (MGMT-4540 Service Operations Management 3 or (MGMT-4540 Service Operations Management 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3 MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3.
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3
Total 17 Spring Year 2. 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3
Total 17 Spring Year 2. 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3 Total 17
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3 Total 17 Spring Year 3:
Total 17 Spring Year 2. 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 1TM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3 Total 17 Spring Year 3: MGMT-4510 Strategic Management 3 MGMT-4510 Strategic Management
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 1TM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3 Total 17 Spring Year 3: MGMT-4510 Strategic Management 3 MGMT-4570 Lean Operations
Total 17 Spring Year 2. 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. BUS-3910 International Business 3 BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 2 ITM-3600 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4550 Applied Leadership 3 Elective 3 Total 17 Spring Year 3: MGMT-4510 Strategic Management
Total 17 Spring Year 2. BTGE-3755 Theology I 3 BUS-3000 The Business Experience 1 ECON-2340 Macroeconomics 3 MGMT-3560 Project Management 3 MGMT-3520 Production and Operations Management 3 or (MGMT-4540 Service Operations Management 3) MRKT-3600 Principles of Marketing 3 Total 16 Summer Year 2. 3 BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5 Fall Year 3. 3 BUS-3910 International Business 3 BUS-3910 International Business 3 BUS-4420 Business Process Management 3 MGMT-4520 Supply Chain Management 3 MGMT-4500 Applied Leadership 3 Elective 3 Total 17 Spring Year 3: MGMT-4510 Strategic Management 3 MGMT-4570 Lean Operations Management

School of Business Administration Management — Bachelor of Science

Suggested Three-Year Curriculum for a Major in Management-Human Resources





School of Business Administration Marketing

Marketing

The **marketing major** falls under the Bachelor of Arts degree and prepares students for career opportunities in advertising, marketing management, marketing research, and sales with retailers, manufacturers, financial institutions, and nonprofit organizations.

Course requirements involve 63 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	3
BUS-1000 The Business Profession	2
BUS-2150 Statistics for Business	3
BUS-2180 Business Law I	3
BUS-3000 The Business Experience	1
BUS-3910 International Business	
BUS-4420 Business Ethics and Social Responsibility	
ECON-2330 Microeconomics	
ECON-2340 Macroeconomics	
FIN-3710 Principles of Finance	
ITM-1510 Software Tools for Business	
MGMT-3500 Principles of Organization and Management	
*MGMT-4510 Strategic Management	
MRKT-3410 Topics in Marketing	
MRKT-3600 Principles of Marketing	
MRKT-3630 Marketing Research	3
MRKT-3650 Consumer Behavior	
MRKT-4610 Marketing Strategy	
Marketing electives selected from the following:	
BUS-3514 Entrepreneurial Ventures in E-commerce	
MRKT-3610 Sales/Sales Management Systems	
MRKT-3660 Integrated Marketing Communications	
MRKT-3670 Business to Business Marketing	
MRKT-3680 Nonprofit Marketing	
MRKT-3690 Services Marketing	
MRKT-4620 International Marketing	.3
*Capstone Course	
	_
Required Cognate	3

Required Cognate	
GMTH-1020 College Algebra	
(Satisfies quantitative requirement for general education co	

Marketing Major Curriculum Summary

Proficiency Requirements	0-4
General Education Requirements	
Marketing Major Requirements	63
Required Cognate	3
Electives	6–14
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Marketing

First year:
BTGE-1725 The Bible and the Gospel
BUS-1000 The Business Profession2
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GMTH-1020 College Algebra3
GSS-1100 Politics and American Culture
HUM-1400 Introduction to the Humanities
ITM-1510 Software Tools for Business2
Biological Science Elective
Physical Science Elective
Social Science Elective
Total
10tal
Second year:
ACCT-2110 Principles of Accounting I
ACCT-2120 Principles of Accounting II
BTGE-2730 Old Testament Literature
BTGE-2740 New Testament Literature
BUS-2150 Statistics for Business
BUS-2180 Business Law I
ECON-2330 Microeconomics 3
ECON-2340 Macroeconomics
MRKT-3600 Principles of Marketing
History Elective
LIT-2XXX Literature Elective
Total
10tal
Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
BUS-3000 The Business Experience
BUS-3910 International Business
FIN-3710 Principles of Finance
MGMT-3500 Principles of Management
MRKT-3410 Topics in Marketing
MRKT-3630 Marketing Research
MRKT-3650 Consumer Behavior
Marketing Electives 6
PEF-1990 Physical Activity and Healthy Living2
Total
Fourth year:
BUS-4420 Business Ethics and Social Responsibility2
MGMT-4510 Strategic Management
MRKT-4610 Marketing Strategy
Marketing Electives
Humanities Elective
Electives
Total 31

School of Business Administration Marketing

Suggested Three-Year Curriculum for a Major in Marketing

Fall Year 1: ACCT-2110 Principles of Accounting I 3 BTGE-1725 The Bible and the Gospel 3 BUS-1000 The Business Profession 2 ECON-2330 Microeconomics 3 ENG-1400 Composition 3 GMTH-1020 College Algebra 3 Total 17
Spring Year 1 3 ACCT-2120 Principles of Accounting II 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 ITM-1510 Software Tools for Business 2 MRKT-3600 Principles of Marketing 3 PEF-1990 Physical Activity and Healthy Living 2 Total 16
Summer Year 1 BTGE-2740 New Testament Literature 3 BUS-2150 Statistics for Business 3 GSS-1100 Politics and American Culture 3 Physical Science Elective 3.5 Elective 3 Total 15.5
Fall Year 2: ECON-2340 Macroeconomics 3 MRKT-3650 Consumer Behavior 3 MGMT-3500 Principles of Organization and Management 3 Marketing Electives 3 Electives 5 Total 17
Spring Year 2. BTGE-3755 Theology I
Summer Year 2. BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 MRKT-3410 Topics in Marketing 2 Biology Elective 3.5 Humanities Elective 3 Electives 1 Total 15.5
Fall Year 3. BUS-3910 International Business 3 BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4510 Strategic Management 3 MRKT-3XXX Marketing Electives 3 LIT-2XXX Literature Elective 3 Elective 2 Total 16
Spring Year 3: MRKT-4610 Marketing Strategy



School of Business Administration Sport Business Management

Sport Business Management

The **sport business management major** prepares graduates to pursue career opportunities across a wide spectrum of the sport industry from amateur, collegiate, professional, or corporate sport settings; and from roles in management, marketing, finance, compliance, journalism, or law. The curriculum follows guidelines established by the Association of Collegiate Business Schools and Profession and the Commission on Sport Management Accreditation.

Course requirements involve 63 semester hours including:

ACCT-2110 Principles of Accounting I	3
BUS-1000 Business Profession	2
BUS-2100 Business Communication	
BUS-2150 Statistics for Business	3
BUS-3000 The Business Experience	1
BUS-3910 International Business	
BUS-4420 Business Ethics and Social Responsibility	2
ECON-2110 Essentials of Economics	3
FIN-3710 Principles of Finance	3
ITM-1510 Software Tools for Business	2
MGMT-3500 Principles of Organization and Management	3
MGMT-4550 Applied Leadership	
MRKT-3600 Principles of Marketing	3
SMGT-2100 Sport in Society	
SMGT-2500 Organizational Behavior in Sport	
SMGT-2910 Campus Sport Business Management Practicum	
SMGT-2920 Sport Business Management Practicum	
SMGT-3180 Legal Issues in the Sport Industry	3
SMGT-3200 Facility Design and Management	
SMGT-3300 Event Planning and Production	
SMGT-4100 Sponsorship and Promotion in the Sport Industry	
SMGT-4200 Financing Sport Operations	
*SMGT-4990 Internship in Sport Business Management	6
Required Cognate	3
GMTH-1020 College Algebra	
(Satisfies quantitative requirement for general education core.)	
*Capstone Course	
Sport Business Management Major Curriculum Summary	
Proficiency Requirements)–5
General Education Requirements48-	
Sport Management Major Requirements	.63
Required Cognate	
Electives 6-	



Total (minimum, not including proficiency)128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Sport Business Management

First year:
BTGE-1725 The Bible and the Gospel3
BUS-1000 Business Profession
COM-1100 Fundamentals of Speech
ENG-1400 Composition3
GBIO-1000 Principles of Biology
GMTH-1020 College Algebra3
ITM-1510 Software Tools for Business
PEF-1990 Physical Activity and Healthy Living2
SMGT-2100 Sport in Society
Physical Science Elective
Electives
Total
10tal
Second year:
ACCT-2110 Principles of Accounting I
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
BUS-2100 Business Communication
BUS-2150 Statistics for Business
ECON-2110 Essentials in Economics 3
HUM-1400 Introduction to the Humanities
SMGT-2500 Organizational Behavior in Sport
SMGT-2910 Campus Sport Business Management Practicum1
SMGT-2920 Sport Business Management Practicum1
History Elective3
Humanities Elective3
Humanities Elective
Humanities Elective
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3
Humanities Elective
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3
Humanities Elective
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year:
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3 SMGT-4100 Sponsorship and Promotions in the Sport Industry 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3 SMGT-4100 Sponsorship and Promotions in the Sport Industry 3 SMGT-4200 Financing Sport Operations 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3 SMGT-4100 Sponsorship and Promotions in the Sport Industry 3 SMGT-4200 Financing Sport Operations 3 SMGT-4990 Internship in Sport Business Management 6-12
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3 SMGT-4100 Sponsorship and Promotions in the Sport Industry 3 SMGT-4200 Financing Sport Operations 3 SMGT-4990 Internship in Sport Business Management 6-12 Social Sciences Elective 3
Humanities Elective 3 Total 32 Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BUS-3000 The Business Experience 1 BUS-3910 International Business 3 FIN-3710 Principles of Finance 3 GSS-1100 Politics and American Culture 3 MGMT-3500 Principles of Organization and Management 3 MRKT-3600 Principles of Marketing 3 SMGT-3180 Legal Issues in the Sport Industry 3 SMGT-3200 Facility Design and Management 3 SMGT-3300 Event Planning and Production 3 LIT-2XXX Literature Elective 3 Total 34 Fourth year: BUS-4420 Business Ethics and Social Responsibility 2 MGMT-4550 Applied Leadership 3 SMGT-4100 Sponsorship and Promotions in the Sport Industry 3 SMGT-4200 Financing Sport Operations 3 SMGT-4990 Internship in Sport Business Management 6-12

School of Business Administration Minors

Minors

The minors offered by the School of Business Administration are designed to provide a basic understanding of specific aspects of business.

Accounting Minor

The minor in accounting involves 18 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ACCT-2120 Principles of Accounting II	
ACCT-3110 Intermediate Financial Accounting I	3
ACCT-3120 Intermediate Financial Accounting II	3
ACCT-4110 Federal Income Tax	3
ACCT-3000/4000 Accounting Electives	

Business Administration Minor

Dusiness Administration Minor
The minor in business administration for the non-business
major involves 17 semester hours including:
ACCT-2110 Principles of Accounting I3
ITM-1510 Software Tools for Business2
MGMT-3500 Principles of Organization and Management3
MRKT-3600 Principles of Marketing3
*Business Administration 2000-, 3000-, 4000-level electives6

^{*}Students must meet all prerequisites for selected courses

Business Analytics Minor

The minor in **business analytics** involves 18 semester hours including:

*BUS-2170 Introduction to Business Analytics	3
*BUS/ITM-4150 Advanced Business Analytics and Visual	ization3
*ECON-4110 Introduction to Econometrics	3
*ITM-2100 Database Management	3
Electives selected from	6
*ACCT-4170 Advanced Managerial Accounting	3
BRDM-3611 Web Analytics	3
*BUS-3150 Operations Analysis	3
*ITM-3600 Business Process Management	
*MGMT-4570 Lean Operations Management	

^{*}This course has an additional School of Business Administration pre-requisite. Students outside the SBA must meet these pre-requisities.

Economics Minor

The minor in economics involves 18 semester hours including:	
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
ECON-3310 Money and Financial Markets	3
ECON-3335 Intermediate Microeconomics	3
ECON-3350 Comparative Economic Systems	3
3000- or 4000-Level Elective in Economics	3

Entrepreneurship Minor

The minor in **entrepreneurship** involves 15 semester hours including:

ENTR-1010 Creative Problem Solving2
ENTR-1020 Introduction to Entrepreneurship2
ENTR-2030 Entrpreneurship Finance2
ENTR-3070 Entrepreneurship Accelerator I2
ENTR-3010 Digital Marketing: Content Creation3
(or ENTR-3020 Digital Marketing: Brand Advertising
Select from the following4
ENTR-2040 Social Enterprising2
*ENTR-3010 Digital Marketing: Content Creation 3
(or ENTR-3020 Digital Marketing: Brand Advertising 3)
ENTR-3040 Entrepreneurship Practicum1-12
**ENTR-3080 Entrepreneurship Accelerator II
**ENTR-3090 Entrepreneurship Accelerator III
ENTR-3410 Special Topics in Entrepreneurship 1-3
ENTR-3510 Entrepreneurship and Small
Business Management3

^{*}Select course not chosen as part of the minor core

International Business Minor

The minor in **international business** for the business major involves 18 semester hours including:

mirenies is semiester means menang.	
BUS-3910 International Business	3
At least nine hours from the following	9
ECON-3350 Comparative Economic Systems	3
ECON-3360 International Trade and Economics	3
FIN-3750 International Finance	3
MGMT-3570 International Management	3
MRKT-4620 International Marketing	3
At least three hours from the following	3
ANTH-1800 Cultural Anthropology	3
BTPA-2260 World Religions	3
POLS-3650 International Relations	
Additional elective selected from courses listed above	

ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
MGMT-3500 Principles of Organization and Management	3
MRKT-3600 Principles of Marketing	3
At least six hours from the following	
ECON-3350 Comparative Economic Systems	3
ECON-3360 International Trade and Economics	3
MGMT-3570 International Management	3
MRKT-4620 International Marketing	3
Additional electives selected from courses listed above	

At least six hours from the following......6

^{**}Participation in these courses is a competitive process that requires SBA approval.

School of Business Administration Minors

Information Technology Management Minor

The minor in **information systems** involves 22 semester hours including:

molaamg.	
ACCT-2110 Principles of Accounting I	3
MGMT-3500 Principles of Organization and Management.	3
ITM-1510 Software Tools for Business	2
ITM-1900 Fundamentals of IT Management	3
ITM-2100 Database Management	3
ITM-2300 Intro to Programming	3
(or ITM-3XXX ITM elective	3)
ITM-3400 Data Communications and Networking	3
ITM-3410 Topics in Information Technology Management	2
OR ENTR-1020 Introduction to Entrepreneurship	2

Marketing Minor

The minor in marketing involves 15 semester hours including:	
MRKT-3600 Principles of Marketing	3
MRKT-3650 Consumer Behavior	
Electives selected from	9
*MRKT-3630 Marketing Research	3
MRKT-3660 Integrated Marketing Communications	
MRKT-3680 Nonprofit Marketing	3
MRKT-3690 Services Marketing	3
MRKT-4620 International Marketing	3

Sport Management Minor

The purpose of the **sport management** minor is to allow students from other majors the opportunity to develop a foundation that will serve as the basis for a future career in sport such as high school athletic director or baseball announcer.

Course requirements for a minor in sport management involve 18 semester hours including:

SMGT-1350 Introduction to Sport Management	3
SMGT-3200 Facility Design and Management	
SMGT-3300 Event Planning and Production	
SMGT-4100 Sponsorship and Promotion in the Sport Industry	
Two courses selected from the following	6
SMGT-2100 Sport in Society	3
SMGT-2500 Organizational Behavior in Sport	
SMGT-3180 Legal Issues in the Sport Industry	3
SMGT-4200 Financing Sport Operations	3

^{*}BUS-2150 Statistics for Business and GMTH-1020 College Algebra are prerequisites.



Department of Communication

Mission Statement	93
Personal Requirements	93
Department Requirements	93
Technical Resources	93
Programs of Study	93
Cocurricular Opportunities	93
Career Opportunities	94
Faculty	94
Majors	
» Broadcasting, Digital Media, and	
Journalism	95
» Communication	97
» Professional Writing and Information	
Design	. 100
Graduate Degree Pathways	
» Graduate Program Pathway Option	
for Broadcasting, Digital Media, and	
Journalism	96
» Graduate Program Pathway Option for	
Communication	99
» Graduate Program Pathway Option for	
Professional Writing and Information	
Design	. 100

Minors

>>	Broadcasting and Digital Media Minor	10
>>	Comprehensive Communication Arts	
	Minor	10
>>	Digital Video Minor	10
>>	Editing and Publishing Minor	10
>>	Intercultural Communication Minor	10
>>	Motion Graphics Minor	10
>>	Organizational Communication Minor	10
>>	Public Relations Minor	10
>>	Writing for the Professions Minor	10
Dep	partment of Communication	
	Course Descriptions	240

Department of Communication Mission Statement

Mission Statement

The Cedarville University Department of Communication is a diverse community of communication professionals committed to educating students to change the world as they biblically engage their culture with the heart and mind of Christ. The department recognizes the importance of balancing the professional side of our discipline with a rigorous academic grounding. Contemporary issues and theories are evaluated and discussed in the perspective of Scripture. To achieve these goals, the department has set the following objectives. We seek to:

- Achieve excellence in communication skills and critical thinking.
- Foster a desire for knowledge and an enthusiasm for creative expression.
- Aid students in formulating problem-solving techniques in applied contexts.
- Encourage the evaluation of performance-based communication as a reflection of culture.
- Develop innovative leaders for positions in media, politics, business, and entertainment.

Personal Requirements

Students planning to pursue a major in communication are best prepared by taking a college preparatory curriculum in high school. Successful students in the major are individuals with abilities in creative expression, critical thinking, problem-solving, and interpersonal interaction.

Department Requirements

Within each specific program of study, students complete courses in the history, theory, research, and ethics of their particular fields of communication. Students are required to complete a senior capstone project in research, production or an internship to graduate. The nature of the project is determined by the emphasis area of the student.

Technical Resources

The department provides state-of-the-art audio and video equipment with which students learn the skills of broadcasting, digital media, and journalism.

The computer network provides tools and resources for public speaking, debate, and forensics.

Journalism students learn news writing and design in a newly developed media lab. This facility also features print, broadcasting, and online media resources for classroom instruction and research.

Programs of Study

The Department of Communication offers the following programs of study:

Majors

- · Broadcasting, Digital Media, and Journalism
- Communication
- Professional Writing and Information Design

Minors

- Broadcasting and Digital Media
- Comprehensive Communication Arts
- · Digital Film
- · Editing and Publishing
- Intercultural Communication
- Motion Graphics
- · Organizational Communication
- Public Relations
- Writing for the Professions

Cocurricular Opportunities

Cedars

Cedars is a student-produced newspaper and website with opportunities for editors, print reporters, multimedia reporters, photographers and graphic designers.

Debate

Cedarville University has a successful debate team currently competing in the National Educationd Debate Association (NEDA). NEDA emphasizes the practical educational debate experience. Scholarships are available.

Speech Team

Cedarville University has a successful individual events team. Cedarville has been state champions in Ohio as well as national champions in the National Christian College Forensics Association. Scholarships are available.

Lambda Pi Eta

Lambda Pi Eta is the offical honor society of the National Communication Association. The purpose is to promote outstanding academic achievement in the Communication discipline. In order to be eligible students must be in good standing with the University, complete 60 credit hours of coursework (12 credit hours in the major), and maintain a cumulative GPA of 3.0 (3.25 in coursework within the major).

Society for Professional Writing

Serves students in the Professional Writing and Information Design major. It promotes communication in professional fields. Benefits of membership include job referral services, networking with professionals, and numerous social activities among faculty and students.

Resound Radio

Students of all majors interested in developing their skills in broadcasting, digital media, and journalism are encouraged to join the staff of Resound Radio, the University's award-winning, online, professional, student radio station. Students are involved in planning, programming, and managing the station. Students enjoy a professional working environment and a responsive audience. Popular programs, music, and personalities have made this station an important part of campus life at Cedarville. The station can be found at **resoundradio.com** and by download in the App Store or Google play.



Department of Communication Career Opportunities

Career Opportunities

Careers in communication are varied and vast. Graduates of this department excel in careers in public relations, personnel management, communication consulting, media communication, political communication, cross-cultural communication, and corporate education training.

Students who major in broadcasting, digital media, and journalism receive excellent training for careers in audio and video production, station management, digital media production, journalism, interactive media design, and management.

These majors also equip students to pursue graduate studies in communication and other fields such as law, theology, and business.

Other career opportunities include:

- Actor
- · Advertising executive
- Anchorperson
- Business manager
- Communication consultant
- Communication statistician
- · Community relations director
- Customer service representative
- Development officer
- · Film director
- · Fund raiser
- · Health services manager
- Human rights officer
- Journalist
- · Labor relations consultant
- Legal communication consultant
- Legislative correspondent
- Mediation specialist

- News director
- Nonprofit organization director
- Political campaign director
- Political analyst
- Politician
- Publications editor
- Public information officer
- Publicist
- Radio talk-show host
- Recording company executive
- · Sales/marketing rep.
- Seminar leader
- · Sports announcer
- Technical communication
- Technical marketing communication
- · Web design

Faculty

Derrick Green, *Chair;* Assistant Professor of Communication. *Education:* B.A., Cedarville University, 1997; M.A., Miami University, 1999. At Cedarville since 2002.

Jeffrey Simon, Assistant Chair, Associate Professor of Communication. Education: B.A., Cedarville University, 2006; M.F.A., Academy of Art University, 2013. At Cedarville since 2010. Nicholas Carrington, Assistant Professor of Technical Communication. Education: B.A., Cedarville University, 2010; M.A., Missouri State University, 2012; Ph.D., Texas Tech University, 2020. At Cedarville since 2012.

Charles Elliott, Senior Professor of Communication. *Education:* B.A., Cedarville University, 1977; M.A., Temple University, 1984; Ph.D., Temple University, 1994. At Cedarville since 2003.

Daniel Fultz, Professor of Communication. *Education*: A.A., Rhodes State College, 1993; B.A., Bluffton University, 1998; M.A., Bluffton University, 2003; Ph.D., Bowling Green State University, 2010. At Cedarville since 2019.

Jeffrey Gilbert, Assistant Professor of Journalism, Cedars Advisor. *Education:* B.A., Cedarville University, 1987; M.A., Regent University, 2014. At Cedarville since 2009.

Andrew Harris, Associate Professor of Communication. *Education:* B.A., Pensacola Christian College, 2004; M.A., Pensacola Christian College, 2006; Ph.D., Regent University, 2013. At Cedarville since 2017.

Heather Heritage, Assistant Professor of Communication. *Education:* B.S., Youngstown State, 2002; M.A., University of Dayton, 2011. At Cedarville since 2011.

James Leightenheimer, Associate Professor of Communication. *Education:* B.A., Cedarville University, 1980; M.A., Ohio University, 1989. At Cedarville since 1982.

Mischelle McIntosh, Assistant Professor of Communication and Media Research. *Education:* B.A., Cedarville University, 1977; M.A., Pensacola Christian College, 1981; M.A., University of West Florida, 1992. At Cedarville since 1999.

Eric Mishne, Assistant Professor of Communication; Director of Forensics. *Education:* B.A., Cedarville University, 2008; M.A., Western Michigan University, 2016; M.A., Ohio University, 2018. At Cedarville since 2019.

Sean O'Conner, Assistant Professor of Broadcasting, Digital Media, and Journalism. *Education:* B.A., Asbury University, 2014; M.A., Asbury University, 2015; M.F.A., Asbury University, 2018. At Cedarville since 2019.

Jennifer Wingerter, Assistant Professor of Professional Writing. *Education:* B.A., Cedarville University 2004; M.A., The Ohio State University. 2009. At Cedarville since 2017.

Technical Support Staff

Shawn Rifner, Studio and Technology Manager. *Education*: B.A., Cedarville University, 2012. At Cedarville since 2016.

Emeriti

J. Wesley Baker, Distinguished Professor Emeritus of Communication. *Education:* B.A., Bob Jones University, 1972; M.A., University of South Carolina, 1980; Ph.D., The Ohio State University, 1991. At Cedarville since 1977.

Deborah Haffey, Senior Professor Emerita of Communication. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1969; Ph.D., The Ohio State University, 2002. At Cedarville since 1986.

Sandra Harner, Senior Professor Emerita of Technical Communication. *Education:* B.A., Cedarville University, 1964; M.A., University of Dayton, 1981. At Cedarville since 1981.

James Kragel, Associate Professor Emeritus of Communication. *Education:* B.S., Mankato State University, 1977; M.A., Wheaton College, 1984. At Cedarville since 1994.

Kurt Moreland, Associate Professor Emeritus of Communication. *Education:* B.A., Cedarville University, 1976; M.A., West Virginia University, 1978; all work completed for Ph.D. except dissertation, Purdue University. At Cedarville since 1981.

James Phipps, Senior Professor Emeritus of Communication. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1970; Ph.D., The Ohio State University, 1975. At Cedarville since 1968.

Margaret Wheeler, Associate Professor Emerita of Communication. *Education:* B.A., Cedarville University, 1964; M.Ed., Central State University, 1998. At Cedarville since 1995.

Department of Communication Broadcasting, Digital Media, and Journalism

Broadcasting, Digital Media, and Journalism

The **broadcasting**, **digital media**, and **journalism major** prepares students for careers in a wide range of media — radio, television, non-broadcast audio/video production, and online and computer-based media. Because of the paraprofessional nature of this program and the balance of practical and theoretical aspects of media work, Cedarville graduates have excelled in careers across all of these media.

Through specifically designed courses, students have the opportunity to work in environments in which radio stations are streaming alternate music formats on the web, television is digital and interactive, and the Internet's broadband capacity provides video on demand. Students receive a broad perspective to prepare them to work in a rapidly changing media environment and will also select a concentration for specialization.

Course requirements involve 53 semester hours — 32 semester hours of core courses that provide the student with an overview of these media and develop skills in common with all of them and a 21-hour concentration. The concentrations provide specialized courses in audio production, video/film production, and a program of study designed by the student and faculty members to meet his or her specific life goal.

Internships are strongly recommended but are dependent upon faculty approval, availability, and placement.

Course requirements involve 54–55 semester hours including:
Core Requirements33-3
BRDM-1110 Introduction to Broadcasting and Digital Media 3
BRDM-1120 Audio Technical Training
BRDM-2110 Video Technical Training
BRDM-2130 Writing for Electronic Media
(or BRDM-3330 Screenwriting4)
(or BRDM/JOUR 3605 Writing and Design
Web/Mobile Media3)
BRDM-2650 Introduction to Web Analytics and SEO 1
BRDM-2810 Sophomore Seminar 1
BRDM/JOUR-3150 Media Ethics
BRDM-3420 Media Management3
BRDM/JOUR-3650 Networked Audience
BRDM-4110 Electronic Media Law and Regulation
BRDM/JOUR-4650 Designing Solutions for New Audiences 3
BRDM-4810 Senior Seminar 1
Select one of the following, with approval of faculty 3-12
*BRDM-4920 Senior Project3
*BRDM-4930 Electronic Media Internship3-12

Concentration selected from the following
Digital Film and Video concentration21
BRDM-2320 Preproduction and Planning for Video/Film3
BRDM-2350 Introduction to Graphics for TV/Film3
BRDM-3210 Digital Audio Post Production3
(or BRDM-3216 Audio for Video and Film
(or THTR-2430 Acting I
BRDM-3310 Digital Film Production3
BRDM-3390 Editing Theory and Practice3
(or BRDM-3620 Digital Compression and Streaming 3)
BRDM-4310 Advanced Cinematography and Lighting3
(or BRDM-3370 Documentary Film-style Production 3)
Practica – three hours selected from the following3
*BRDM-3731 Video Production Practicum 1
*BRDM-3733 Sports Production Practicum

+BRDM-3734 Film Practicum......1

Digital Radio and Audio concentration	21
BRDM-1210 Media Performance	3
BRDM-3210 Digital Audio Post-Production	3
BRDM-3215 Live Sound	3
Select one set of courses approved by advisor	12
Set one:	
BRDM-3410 Broadcasting and Digital Media Sales	3
THTR-1410 Introduction to Theatre	3
THTR-2410 Advanced Performance Techniques	3
THTR-2430 Acting I	
Set two:	
BRDM-2220 Sound Design	3
BRDM-3211 Digital Music Production	3
BRDM-3216 Audio for Video/Film	3
BRDM-3720 Audio Production Practicum	
(1 hour each; 3 hours required)	3
Integrated Digital Media concentration	
BRDM-3210 Digital Audio Post Production	3
BRDM-3310 Digital Film Production	3
Digital Media Electives	15
Electives are chosen by the student to meet his or her specific life goals a	and must b

Electives are chosen by the student to meet his or her specific life goals and must be approved by the department Chair and the student's advisor. Additionally, the student must justify the exclusion of communication courses that appear to meet the life goal plan. No 1000-level courses may apply.

Journalism concentration	21
JOUR-1000 Multiplatform Journalism I	3
JOUR-2000 Multiplatform Journalism II	3
JOUR-4910 Multiplatform Seminar	3
Electives Selected from:	
BRDM-1210 Media Performance	3
BRDM-2320 Pre-Production and Planning for	
Video and Film	3
BRDM-3350 Documentary Films	3
BRDM-3370 Documentary Film-style Production	3
JOUR-3350 Television News Production	3
JOUR-3420 Editing and Design	3
JOUR-3900 Practicum in Journalism (repeatable)	1
JOUR-4420 Feature Reporting	3
JOUR-4600 Magazine Writing	3
JOUR-4610 Photojournalism	3
JOUR-4620 Data and Investigative Reporting	3
*0	

^{*}Capstone Course

Broadcasting, Digital Media, and Journalism Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	
Broadcasting, Digital Media, and Journalism	
Major Requirements	54-55
Electives	14-23
Total (minimum, not including proficiency)	128

Electronic Media Advisory Board

The BRDM Advisory Board provides input on the development of the BRDM majors and an assessment of the program's courses and facilities to ensure that students are being prepared for a career in the field.

⁺Repeatable

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Broadcasting, Digital Media, and Journalism

First year: BTGE-1725 The Bible and the Gospel3	
COM-1100 Fundamentals of Speech	
BRDM-1110 Introduction to Broadcasting and Digital Media	
BRDM-1120 Audio Technical Training	
ENG-1400 Composition	
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities3	
PEF-1990 Physical Activity and Healthy Living2	
Biological Science Elective3.5	
History Elective3	
Quantitative Elective	
Total	
Second year:	
BTGE-2730 Old Testament Literature3	
BTGE-2740 New Testament Literature	
BRDM-2110 Video Technical Training	
BRDM-2810 Sophomore Seminar1	
BRDM-XXXX Writing Option3–4	
Concentration Requirements12	
Physical Science Elective	
LIT-2XXX Literature Elective	
Total31.5	
101.01	
Third year:	
Third year:	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year:	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3	
Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4650 Designing Solutions for New Audiences 3	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4650 Designing Solutions for New Audiences 3 BRDM-4810 Senior Seminar 1	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4650 Designing Solutions for New Audiences 3 BRDM-4810 Senior Seminar 1 BRDM-4920 Senior Project 3 (or BRDM-4930 Electronic Media Internship 3-12)	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4810 Designing Solutions for New Audiences 3 BRDM-4810 Senior Seminar 1 BRDM-4920 Senior Project 3 (or BRDM-4930 Electronic Media Internship 3-12) Concentration Requirements 3	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4650 Designing Solutions for New Audiences 3 BRDM-4810 Senior Seminar 1 BRDM-4920 Senior Project 3 (or BRDM-4930 Electronic Media Internship 3-12) Concentration Requirements 3 Humanities Elective 3	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 BRDM-2650 Introduction to Web Analytics and SEO 1 BRDM-3150 Media Ethics 3 BRDM-3420 Media Management 3 BRDM-3650 Networked Audience 3 Concentration Requirements 6 Social Science/Global Awareness Elective 3 Electives 7 Total 32 Fourth year: BRDM-4110 Electronic Media Law and Regulation 3 BRDM-4810 Designing Solutions for New Audiences 3 BRDM-4810 Senior Seminar 1 BRDM-4920 Senior Project 3 (or BRDM-4930 Electronic Media Internship 3-12) Concentration Requirements 3	







Graduate Program Pathway Option for Broadcasting, Digital Media, and Journalism

The Bachelor of Arts in broadcasting, digital media, and journalism program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Communication Communication

Communication

The **communication major** was designed to prepare students with the foundations of the discipline and the transferrable skills to meet the demands of a dynamically new and changing convergent communication environment. Coursework in the major develops critical competencies in leadership, problem-solving skills, critical thinking, creativity, and a broad range of communication skills necessary for advancement in both employment and graduate school contexts. Students work with an advisor to build a customized program of study to meet their particular life goals, selecting appropriate courses from the core curriculum and then defining specific courses to focus on a particular area of the field.

Course requirements involve 48 semester hours, including 25 semester hours in the core requirements and 23 semester hours in the selected concentration.

Course requirements involve 48 semester hours including:		٥.
Communication requirements		.25
COM-1150 Communication Seminar		
COM-2050 Communication Theory		
COM-2200 Communication in Applied Contexts	3	}
COM-2220 Quantitative Research	3	3
(or COM-2225 Qualitative Research	3)	
COM-2330 Writing for Communication Professions		}
COM-3100 Advanced Public Speaking		
COM-3240 Interpersonal Communication		
COM-3710 Narrative and Cultural Literacy		
COM-3840 Media Analysis		
COM-4850 Senior Seminar	1	
Concentration selected from the following		
Advocacy Communication concentration	23	}
COM-2000 Persuasive Theory	3	
COM-2300 Voices of Diversity	3	
COM-3550 Advocacy Communication	3	
COM-4610 Communication Ethics		
COM-4950 Applied Capstone		
*Electives		

*Electives are chosen by the student to meet his/her specific life goals in the area of advocacy and must be approved by the department Chair and the student's advisor. No 1000-level courses may apply.

Organizational Communication concentration	23
COM-3230 Organizational Communication	
COM-3250 Interviewing	.3
COM-3260 Organizational Negotiation	.3
COM-3330 Organizational Training	.2
COM-4060 Organizational Leadership	.3
COM-4950 Applied Capstone	.3
MGMT-3500 Principles of Organization and Management	.3
MGMT-3530 Human Resources Management	.3
(or COM-3350 Event Planning	3)
(or COM-3550 Advocacy Communication	3)

Strategic Communication Concentration	23
COM-2520 Virtual Communication	
COM-3350 Event Planning	3
(or COM-3550 Advocacy Communication	
COM-4060 Organizational Leadership	
COM-4610 Communication Ethics	2
COM-4950 Applied Capstone	3
*Strategic Communication electives	9

*Strategic communication electives are chosen by the student to meet his or her specific life goals and must be approved by the department Chair and the student's advisor. The electives may be from department approved specialization templates or developed in consultation with the student's advisor to meet particular goals. Additionally, the student must justify the exclusion of communication courses that appear to meet the life goal plan. No 1000-level courses may apply.

Communication Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	
Communication Major Requirements	
Electives	
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Communication

First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 COM-1150 Communication Seminar 1 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and Healthy Living 2 Biological Science Elective 3.5 History Elective 3 LIT-2XXX Literature Elective 3 Quantitative Elective 3 Total 30.5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Second year: BTGE-2730 Old Testament Literature	33 33 33 33 33 33 33 33 33 33 33 33 33
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 COM-3240 Interpersonal Communication 2 COM-3710 Narrative and Cultural Literacy 3 COM-3840 Media Analysis 3 Communication Concentration 9 Electives 10 Total 33	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Fourth year: COM-3100 Advanced Public Speaking	 } }

Department of Communication Communication

Suggested Three-Year Curriculum for a Major in Communication Advocacy Communication Concentration

Fall Year 1: BTGE-1725 The Bible and the Gospel3 COM-1150 Communication Seminar1 COM-2050 Communication Theory......3 ENG-1400 Composition......3 Total 16 Spring Year 1 COM-2200 Communication in Applied Contexts3 COM-2300 Voices of Diversity......3 PEF-1990 Physical Activity and Healthy Living......2 Electives6 Total 17 Summer Year 1 BTGE-2740 New Testament Literature3 Total 15.5 COM-2000 Persuasive Theory3 COM-2220 Quantitative Research......3 COM-3840 Media Analysis3 Electives4 Total 16 Spring Year 2. BTGE-3755 Theology I......3 COM-3240 Interpersonal Communication2 COM-4610 Communication Ethics2 Electives6 Total 16 HUM-1400 Introduction to the Humanities......3 Humanities Elective3 Elective3 Total 15.5 COM-3710 Narrative and Cultural Literacy......3 COM-3550 Advocacy Communication......3 Advocacy Communication Electives......6 Social Science Elective3 Electives1 Total 16 COM-3100 Advanced Public Speaking......3 COM-4850 Senior Seminar1 COM-4950 Applied Capstone.....3 History Elective......3 Flectives 6

Suggested Three-Year Curriculum for a Major in Communication Organizational Communication Concentration

Fall Year 1:
BTGE-1725 The Bible and the Gospel
COM-1100 Fundamentals of Speech
COM-1150 Communication Seminar
COM-2050 Communication Theory
ENG-1400 Composition3
Electives
Total 16
Spring Year 1
BTGE-2730 Old Testament Literature3
COM-2200 Communication in Applied Contexts3
COM-3230 Organizational Communication3
PEF-1990 Physical Activity and Healthy Living2
Electives6
Total 17
Summer Year 1
BTGE-2740 New Testament Literature3
GSS-1100 Politics and American Culture
LIT-2XXX Literature Elective
Physical Science Elective
Quantitative Elective
Total 15.5
5 #W 0
Fall Year 2:
COM-2220 Quantitative Research
COM-3330 Organizational Training
COM-3840 Media Analysis
Electives
lotal 16
Total
Spring Year 2.
Spring Year 2. BTGE-3755 Theology I3
Spring Year 2. BTGE-3755 Theology I
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2.
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 8 BTGE-3765 Theology II 3
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 8 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 8 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3.
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3
Spring Year 2. 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3
Spring Year 2. 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 8 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-3730 Human Resources Management 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3
Spring Year 2. 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 BElectives 6 Fotal 17 Summer Year 2. 8 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3 Total 15
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 8 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. 15.5 COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-3730 Human Resources Management 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3
Spring Year 2. BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3 Total 15 Spring Year 3: COM-3100 Advanced Public Speaking 3 COM-4850 Senior Seminar 1
Spring Year 2. 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3 Total 15 Spring Year 3: COM-3100 Advanced Public Speaking 3 COM-4850 Senior Seminar 1 COM-4950 Applied Capstone 3
Spring Year 2. 3 BTGE-3755 Theology I 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3 Total 15 Spring Year 3: COM-3100 Advanced Public Speaking 3 COM-4850 Senior Seminar 1 COM-4950 Applied Capstone 3 History Elective 3
Spring Year 2. 3 COM-3240 Interpersonal Communication 2 COM-3250 Interviewing 3 MGMT-3500 Principles of Organization and Management 3 Electives 6 Total 17 Summer Year 2. 3 BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5 Fall Year 3. COM-3260 Organizational Negotiation 3 COM-3710 Narrative and Cultural Literacy 3 COM-4060 Organizational Leadership 3 MGMT-3530 Human Resources Management 3 Social Sciences Elective 3 Total 15 Spring Year 3: COM-3100 Advanced Public Speaking 3 COM-4850 Senior Seminar 1 COM-4950 Applied Capstone 3

Department of Communication Communication

Suggested Three-Year Curriculum for a Major in Communication Strategic Communication Concentration

Fall Year 1: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 COM-1150 Communication Seminar 1 COM-2050 Communication Theory 3 ENG-1400 Composition 3 Electives 3 Total 16
Spring Year 1 3 BTGE-2730 Old Testament Literature
Summer Year 1 BTGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Quantitative Elective 3 Total 15.5
Fall Year 2: COM-2220 Quantitative Research 3 COM-2330 Writing for Communication Professions 3 COM-3840 Media Analysis 3 COM-4060 Organizational Leadership 3 Electives 4 Total 16
Spring Year 2. 3 BTGE-3755 Theology I
Summer Year 2. BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Global Awareness Elective 3 Total 15.5
Fall Year 3. COM-2520 Virtual Communication
Spring Year 3: COM-3100 Advanced Public Speaking

Graduate Program Pathway Option for Communication

The Bachelor of Arts in communication program offers accelerated pathways to the Master in Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.





Department of Communication Professional Writing and Information Design

Professional Writing and Information Design

The **professional writing and information design major** prepares students for positions as communication experts in a variety of industries. The major itself involves 61 semester hours in specific professional writing and information design courses.

Professional Writing and Information Design Core61	
ENG-3070 English Grammar3	
PWID-2130 Introduction to Professional Writing	
PWID-3010 Style and Mechanics for Writers	
PWID-3020 Professional Portfolio Development I	
PWID-3050 User Experience for the Web	
PWID-3090 Marketing Communication	
PWID-3170 The Professional Writer in a Corporate Culture 2	
PWID-3180 Visual Rhetoric3	
PWID-3210 Professional Editing3	
PWID-3250 Documentation Design3	
PWID-4010 Report Writing3	
PWID-4020 Professional Portfolio Development II	
PWID-4050 Content Strategy and Development	
PWID-4130 Instructional Design I	
PWID-4140 Instructional Design II	
PWID-4150 Writing for Publications	
PWID-4160 Professional Writing Internship	
*PWID-4170 Special Topics3	
VCD-1050 Applied Design: Tech Tools I	
VCD-2600 Web Design I	
Electives selected from the following6	
BRDM-3611 Web Analytics3	
COM-2050 Communication Theory3	
COM-2140 Intercultural Communication3	
COM-3100 Advanced Public Speaking3	
ENG-2230 Advanced Composition3	
JOUR-2500 Introduction to Public Relations3	

^{*}Capstone Course

Professional Writing and Information Design Major Curriculum Summary

our round our round y	
Proficiency Requirements	0-4
Other General Education Requirements	.51-59
Professional Writing and Information Design Requirements.	61
Electives	8-16
Total (minimum, not including proficiency)	128

Professional Writing and Information Design Industry Advisory Board

The professional writing and information design industry advisory board aims to enable the department to adequately position the Professional Writing and Information Design major and its graduates for the future.

Scott Bennett, Procter and Gamble Jenn Himes, Nationwide Sylvia Miller, Elsevier Genelle Pretty, Parker Hannifin Corporation Matt Pretty, Hyland Software Jim Visgaitis, HP Enterprise Services A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Professional Writing and Information Design

First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 ENG-3070 English Grammar 3 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 PEF-1990 Physical Activity and Healthy Living 2 PWID-3010 Style and Mechanics for Writers 3 Quantitative Elective 3 Total 32.5
Second year: 3 BTGE-2730 Old Testament Literature
Summer: PWID-4160 Professional Writing Internship
Third year: 3 BTGE-3755 Theology I. 3 BTGE-3765 Theology II. 3 PWID-3090 Marketing Communication 3 PWID-3180 Visual Rhetoric 3 PWID-4050 Content Strategy and Development 3 PWID Electives 3 VCD-2600 Web Design I. 3 History Elective 3 Physical Science Elective 3.5 Social Science/Global Awareness Elective 3 Total 30.5
Fourth year: PWID-3050 User Experience for the Web

Graduate Program Pathway Option for Professional Writing and Information Design

The Bachelor of Arts in professional writing and information design program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Communication Minors

· ·	
Minors	Motion Graphics Minor
Broadcasting and Digital Media Minor	Course requirements for the minor in motion graphics involve 17
Course requirements for the minor in broadcasting and digital	semester hours selected from the following courses:
media involve 15 semester hours:	BRDM-2350 Introduction to Graphics for TV and Film3
BRDM-1110 Introduction to Broadcasting and Digital Media3	BRDM-2606 Introduction to Computer Animation2
BRDM-1120 Audio Technical Training3	BRDM-3355 VFX and Compositing for TV and Film3
BRDM-2110 Video Technical Training3	BRDM-3630 Principles of Computer Animation3
BRDM-2130 Writing for Electronic Media3	VCD-2400 Graphic Design I3
(or BRDM-3605 Writing and Design for Web and Mobile Media 3)	Production Electives selected from3
BRDM-XXXX Broadcasting and Digital Media Electives	ART-2250 Creative Photography3
	BRDM-2110 Video Technical Training3
Comprehensive Communication Arts Minor	BRDM-3310 Digital Film Production3
Course requirements for the minor in comprehensive	
communication arts involve 16 semester hours selected from the	Organizational Communication Minor
following courses:	Course requirements for the minor in organizational
COM-2000 Persuasive Theory3	communication involve 17 semester hours selected from the
COM-2050 Communication Theory3	following courses:
COM-2200 Communication in Applied Contexts3	COM-2050 Communication Theory3
COM-3100 Advanced Public Speaking3	COM-3230 Organizational Communication3
COM-3240 Interpersonal Communication2	Electives selected from the following11
COM-4110 History of Public Address3	BRDM-3611 Web Analytics3
COM-4120 Contemporary Rhetoric2	COM-2200 Communication in Applied Contexts3
	COM-3240 Interpersonal Communication2
Digital Video Minor	COM-3250 Interviewing3
Course requirements for the minor in digital film involve 18	COM-3260 Organizational Negotiation3
semester hours selected from the following courses:	COM-3330 Organizational Training2
BRDM-1120 Audio Technical Training3	COM-3350 Event Planning3
BRDM-2110 Video Technical Training3	COM-4060 Organizational Leadership3
BRDM-2320 Preproduction and Planning for Film/Video3	MGMT-3500 Principles of Organization and Management 3
BRDM-2350 Introduction to Graphics for TV and Film3	
BRDM-3310 Digital Film Production3	Public Relations Minor
BRDM-4310 Advanced Cinematography and Lighting3	Course requirements for the minor in public relations involve
(or BRDM-3370 Documentary Film-style Production3)	19 semester hours selected from the following courses:
	JOUR-1000 Multiplatform Journalism I3
Editing and Publishing Minor	JOUR-2500 Introduction to Public Relations3
The editing and publishing minor is designed to prepare	JOUR-3500 Public Relations Principles and Writing3
students for careers in the publishing field. Course requirements	JOUR-4500 Public Relations Campaigns3
involve 19 credit hours including:	JOUR-4550 Practicum in Public Relations1
ENG-3070 English Grammar3	MRKT-3600 Principles of Marketing3
PWID-3010 Style and Mechanics for Writers3	Electives selected from the following3
PWID-3210 Professional Editing3	BRDM-3611 Web Analytics3
PWID-XXXX Electives10	COM-2000 Persuasive Theory3
	COM-3230 Organizational Communication3
Intercultural Communication Minor	COM-3350 Event Planning3
Course requirements for the minor in intercultural	COM-3550 Advocacy Communication3
communication involve 17 semester hours selected from the	
following courses:	Writing for the Professions Minor
COM-2050 Communication Theory3	The writing for the professions minor is designed to prepare
COM-2140 Intercultural Communication3	students from a variety of majors to be better writers and to
COM-2300 Voices Of Diversity3	acquire the professional skills required in a corporate setting.
COM-3240 Interpersonal Communication2	Course requirements involve 18 credit hours including:
COM-3710 Narrative and Cultural Literacy3	PWID-3010 Style and Mechanics for Writers
One of the following courses3	PWID-3090 Marketing Communication3
BTPA-2260 World Religions	PWID-4010 Report Writing3
PYCH-1800 Cross-Cultural Psychology	PWID-XXXX Elective3
A departmental approved CU Study Abroad course 3	Two courses selected from the following6
	PWID-3250 Documentation Design
	PWID-4130 Instructional Design I
	PWID-4140 Instructional Design II3

School of Education

Mission Statement	103
School Distinctives	103
Personal Requirements	103
Cocurricular Opportunities	103
Teacher Education Program Admission	
Requirements	103
Test Pass Rates	104
Programs of Study	104
Career Opportunities	104
Faculty	10/

General Education Requirements for Education
Majors105
Teacher Education Core
Majors
» Middle Childhood Education 106
» Primary (P-5) Education107
» Special Education — Intervention
Specialist
» Adolescent/Young Adult and Multi-Age
Licensure Programs110
School of Education Course Descriptions 256

Mission Statement

The Cedarville University School of Education seeks to prepare compassionate, professional educators who are committed to the integration of faith, learning, and life as demonstrated in teaching competence and Christlike character through leadership and service.

School Distinctives

- Accreditation: Cedarville University is accredited by the Higher Learning Commission and National Council for the Accreditation of Teacher Education Council. The University's teacher preparation programs are approved by the Ohio Department of Higher Education.
- Each year approximately 10 percent of the senior education students pursue cross-cultural student teaching experiences.
 They teach under the supervision of experienced, certified teachers in approved, accredited, overseas institutions.
- The University's award-winning technology resources enable upper-level students to develop lessons and curriculum resource materials for K–12 partner schools. Because of training in the use of educational technology, graduates are sought by schools to help integrate technology into their curricula.
- Intensive clinical experiences accompany methods classes.
 As a result, many schools comment that Cedarville graduates possess experience and confidence uncommon in most first-year teachers.
- Cedarville's reputation for producing exceptional teachers generates significant demand from school systems. Each year Christian and public schools visit the campus to recruit teacher education graduates.

Licensure - Public Schools

The education licensure programs listed in the catalog are subject to revision at any time given changes in national and state requirements for the Teacher Education programs in Ohio, which may also result in adjustment to your graduation requirements.

All programs leading to licensure at Cedarville University are approved by the Ohio Department of Higher Education. Ohio bases its requirements and approval processes on standards set by the Council for the Accreditation of Teacher Preparation (CAEP). Cedarville is a member of CAEP.

In many cases, students must meet additional requirements to obtain extended or permanent licensure for those states. Also, because of the nature of Ohio's teacher licensing standards, graduates with an Ohio license will normally be granted a license of "best fit" with the state in which the graduate wishes to teach. State licensure requirements are continually changing; therefore, students who wish to teach outside of Ohio should obtain a current description of certification requirements from the department of education for each state in which they would like to teach. Most states have their certification requirements posted electronically. Graduates may transfer their State of Ohio teaching license to any state in the United States.

Individuals completing the program qualify for certification from the Association of Christian Schools International (ACSI). Christian schools around the world recognize this certification.

Demographic Profile

The demographic profile of program enrollees for the 2019–2020 reporting period is:

African-American	5
Asian	6
Hawaiian/Pacific Islands	0
Hispanic	5
International	3
Two or more	11
White	314
Native American	1
Unknown	2
Male	51
Female	296
Total	347

Personal Requirements

Students interested in the Teacher Education Program should enjoy the teaching and learning process and enjoy working with people. The best teachers are those who are lifelong learners and enjoy serving others; they are people who are motivated by making a difference in others' lives. Cedarville University desires to work with students who are becoming professionals in their treatment of others, in their dispositions, and in responsibility for tasks. Because of the increasingly stringent standards for teachers nationwide, teacher candidates must be able to demonstrate their preparedness to teach by achieving good grades and passing state-mandated assessments for teachers.

Cocurricular Opportunities

Numerous opportunities exist for tutoring in public schools, mentoring K–12 students, and becoming involved in local church ministries to children and adolescents. In addition, students may choose to join the Student Education Association (SEA).

Teacher Education Program Admission Requirements

Students admitted to Cedarville University must also make application for formal admission to the Teacher Education Program (TEP) usually in their late sophomore or early junior years depending on the major. To be admitted, students must meet the following requirements at least one semester before enrolling in the first methods of teaching course for their particular program. These requirements apply to all students seeking a degree and/ or license in either, middle childhood education, primary (P-5) education, special education, multi-age education, or adolescent/ young adult education (i.e., secondary education). Students seeking a degree/licensure in a program offered by another department should review the requirements of that department as well.



School of Education Test Pass Rates

- Minimum cumulative GPA of 3.0 in all courses and 2.7 GPA in all TEP core curriculum courses. All TEP core courses must be completed with a grade of "C-" or higher.
- Minimum GPA of 2.5 in the teaching field content area(s), and content core for primary (P-5) education.
- No grade of less than "C-" in teaching field or concentration area courses. For primary (P-5), middle childhood, and special education, this includes general education courses in the content areas of humanities, science, mathematics, and social science.
- Minimum passing scores on content competency exams, or by ACT/SAT exemption. Exemption from the exams is granted if:
 - a. ACT Math subscore equal/higher 21; or SAT Math subscore equal/higher 530.
 - ACT Reading subscore equal/higher 21; or SAT EBRW subscore equal/higher 550.
 - All students entering the TEP must have a writing exam score on file. These include the ACT writing exam (7 minimum), SAT EBRW exam (550 minimum), or Praxis Core Writing exam (165 minimum).
- Satisfactory completion of all introductory field experiences: EDUC-1050 Preliminary Student Involvement.
- Valid "No Record" background check for the state of Ohio and an additional FBI background check.
- Satisfactory referral letter from academic advisor and one external reference.
- No negative dispositional referrals from faculty or mentor teachers.

Teacher Education Program Retention and Completion Requirements

To maintain regular standing in the Teacher Education Program and/or to receive a degree, students must maintain and/or complete the following requirements:

Maintain a GPA of 3.0 or higher in all courses.

- 1. Obtain a "C-" or higher in all methods courses.
- 2. Satisfactorily complete field and clinical experiences.
- Earn a passing score on all state-required licensure assessments.
- 4. Satisfactorily complete the internship experience.
- Attempt all required Ohio Assessments for Educators (OAE) prior to student teaching.

Test Pass Rates

For up-to-date testing pass rates and the Ohio educator preparation performance report see **cedarville.edu/ EducationLicensure.**

Programs of Study

The School of Education offers instruction with the purpose of providing excellent Christian teachers for Christian, public, international, and missionary schools. The University is approved by the Ohio Department of Higher Education for programs leading to a teaching license or endorsement in several areas.

- Multi-Age Special Education Intervention Specialist-mild to moderate (K-12)
- Middle Childhood Education (grades 4-9)

Two concentrations chosen from:

- Mathematics
- Reading/Language Arts
- Science
- Social Studies
- Primary (P-5) Education (pre–K to grade 5)

See appropriate department for a complete description of the following programs:

- Adolescent and Young Adult (grades 7–12)
 - Chemistry Education (Department of Science and Mathematics, page 208)
 - Language Arts Education Integrated (Department of English, Literature, and Modern Languages, page 128)
 - Life Science Education (Department of Science and Mathematics, page 209)
 - Mathematics Education Integrated (Department of Science and Mathematics, page 210)
 - Physical Science Education (Department of Science and Mathematics, page 211)
 - Physics Education (Department of Science and Mathematics, page 212)
 - Science Comprehensive Education Integrated (Department of Science and Mathematics, page 213)
 - Social Studies Education Integrated (Department of History and Government, page 147)
- Multi-Age Licensure (pre-K to grade 12)
 - Health and Physical Education (School of Allied Health, page 43)
 - Music Education (Department of Music and Worship, page 168)
 - Physical Education (School of Allied Health, page 35)
 - Spanish Education (Department of English, Literature, and Modern Languages, page 133)

Career Opportunities

Christian and public schools actively recruit Cedarville education graduates. Graduate schools also welcome Cedarville students. Careers pursued by School of Education graduates include:

- · Christian school teacher
- · Church education programs
- · Elementary school teacher
- · High school or middle school teacher
- · International school teacher
- · Library science
- · Mission school teacher
- Music teacher K–12
- Physical education/health education teacher K–12
- · Preschool director or teacher
- Special education (mild-moderate educational needs)
- Youth camps

Faculty

Kevin M. Jones, Sr., *Dean.* Assistant Professor of Education. *Education:* B.A., Kentucky State University, 2004; M.A. University of Kentucky, 2008; M.Ed., University of Kentucky, 2015; Ed.D. Spaulding University, 2016. At Cedarville since 2020.

David Leitch, Assistant Dean. Associate Professor of Special Education. Education: B.S., Baptist Bible College of Pennsylvania, 1984; M.S., Central Michigan University, 1990; J.D., Cleveland State University, 1993; M.Ed., Cleveland State University, 2008; Ph.D., Kent State University, 2018. At Cedarville since 2012.

Eddie Baumann, Senior Professor of Education. *Education:* B.S., University of Wisconsin, 1983; M.S., University of Wisconsin, 1987; Ph.D., University of Wisconsin, 1995. At Cedarville since 1993.

Megan Brown, Assistant Professor of Education. *Education:* B.S., Messiah College, 2011; M.A., Hollins University, 2013; Ph.D., The Ohio State University, 2019. At Cedarville since 2018.

School of Education General Education Requirements for Education Majors

Terry Comers, Assistant Professor of Education. *Education*: B.A., Cedarville University, 1977; M.Ed., Wright State University, 1995. At Cedarville since 2004.

Lori Ferguson, Assistant Professor of Education. *Education:* B.A., Cedarville University, 1998; M.S., University of Dayton, 2002; Ed.D. University of Cincinnati, 2020. At Cedarville since 2011

Brenda MacKay, Associate Professor of Education. *Education:* B.A., Oglethorpe University, 1965; M.A., University of Georgia, 1972; Ed.D., Bob Jones University, 1992. At Cedarville since 2000. Lynn Roper, Assistant Professor of Special Education. *Education:* B.S., Asbury College, 1988; Certification in Special Education, University of Kentucky, 1990; M.S.W., University of Kentucky, 2000; Ph.D. in special education, University of Kentucky, 2016. At Cedarville since 2010.

Ruth Sylvester, Associate Professor of Education. *Education:* B.S., Tennessee Temple University, 1981; M.Ed., University of South Florida, 1991; Ph.D., University of South Florida, 2007. At Cedarville since 2013.

Tianhong Zhang, Assistant Professor of Education. *Education:* B.A., Xinjiang Normal University-China, 1993; M.A., University of Akron, 2010; Ph.D., Kent State University, 2019. At Cedarville since 2019.

Emeriti

Merlin Ager, Professor Emeritus of Education. *Education:* B.A., Cedarville University, 1960; M.S., University of Wisconsin, 1962; Ph.D., The Ohio State University, 1967. At Cedarville 1964–75 and since 1978.

Sue Baker, Professor Emerita of Education. *Education*: B.S., Kent State University, 1968; M.Ed., Kent State University, 1972; Ed.D., University of Cincinnati, 1987. At Cedarville since 1978.

Sally Castle, Professor Emerita of Education. *Education:* B.S., Syracuse University, 1964; M.S., The University of Dayton, 1983; Ed.S., Wright State University, 1992; Ed.D., Nova Southeastern University, 1996. At Cedarville since 1994.

Dwayne Frank, Professor Emeritus of Education. *Education:* B.A., Cedarville University, 1960; B.S., Central State University, 1960; M.A.T., Albertson College, 1965; Ed.D., University of Idaho, 1973. At Cedarville since 1968. PT/Adjunct since 2003.

Stephen Gruber, Professor Emeritus of Education. *Education:* B.A., Cedarville University, 1974; M.Ed., Wright State University, 1977; Ed.S., Wright State University, 1984; Ed.D., Miami University, 1990. At Cedarville since 2000.

Timothy Heaton, Professor of Education. *Education*: B.A., Wittenberg University, 1973; M.A., Grace Theological Seminary, 1986; Ph.D., University of Dayton, 1999. At Cedarville since 1987. **Beverly Monroe**: Associate Professor Emerita of Education. *Education*: B.A., Shelton College, 1957; M.A., Wright State University, 1971; Ph.D., Miami University, 1985. At Cedarville since 1977

Thomas Sweigard, Associate Professor Emeritus of Education. *Education:* B.S., Bowling Green State University, 1973; M.A., The Ohio State University, 1982; Ph.D., The Ohio State University, 1992. At Cedarville since 2003.

General Education Requirements for Education Majors

Special Education — Intervention Specialist (SpE)

Middle Childhood Education (MC) Primary (P-5) Education (P-5)

ESCI-2410 General Meteorology4

ESCI-2510 Introduction to Astronomy......4

GSCI-1010 Principles of Earth Science......3.5

Foreign Language0–8
See the global awareness section of the general education

INTL-2100 Global Issues......3

INTL-3650 International Relations3

*Content core courses for primary (P-5) and special education

¹Students pursuing science concentration for middle childhood must take GSCI-1010 Principles of Earth Science.

²Students pursuing social studies concentration for middle childhood must take HIST-1110 United States History I.

Teacher Education Core

Teacher Education Core	14
EDSP-2100 Exceptionalities and Behavior	
EDUC-1000 The Education Profession	
EDUC-1050 Preliminary Student Involvement	0
EDUC-2050 Teaching Diverse Learners	2
EDUC-2100 e-Learning for Educators	3
EDUC-2300 Assessment and Differentiation	
EDUC-2500 Educational Psychology	

Middle Childhood Education

The middle childhood education major prepares students to teach upper elementary or middle school (grades 4-9). Students will prepare to teach in two of the four major curriculum areas: reading and language arts, mathematics, science, or social studies.

Course requirements involve 47 education semester hours plus 36-41 concentration area hours including:

Teacher Education Core (see page 105)	14
Middle School Methods I	13
EDMC-3500 Principles of Teaching Middle School	4
EDMC-3600 Phonics/Structure Language	3
EDMC-3700 Teaching Reading/Middle Childhood Literature	4
EDMC-3950 Middle School Field Experience I: Teaching	
Reading	2
Middle School Methods II	6
EDMC-4000 Reading and Writing in the Disciplines: Middle	
Childhood	3
EDMC-4440 Middle Childhood Field Experience II	2
EDUC-3200 Faith and Learning Alignment	1
Student Teaching	14
*EDMC-4900 Student Teaching and Seminar	12
EDSP-4250 Communication, Collaboration, and Inclusion	
*Capstone Course	

Concentration Areas (must choose two) Concentration courses

must be completed prior to student teaching.	
Mathematics	
EDMC-4100 Teaching Mathematics: Middle Childhood	3
EDMC-4125 Topics in Middle School Mathematics	3
GMTH-1020 College Algebra	3
GMTH-1030 Precalculus	
GMTH-3010 Proof and Mathematical Modeling	3
PYCH-2610 Statistics	3
Language Arts	17
EDMC-3800 Writing Process and Language	
Arts Methods for Middle Childhood	3
ENG-2070 Fundamentals of English Grammar	3
ENG-2230 Advanced Composition	3
ENG-3180 Visual Rhetoric	2
LIT-2390 Survey of American Literature to 1900	
LIT-3100 Contemporary Young Adult Literature	3
Science	
CHEM-1000 Principles of Chemistry	
EDMC-4200 Teaching Science: Middle Childhood	
GSCI-1020 Principles of Physical Science	
GSCI-3010 Concepts in Middle School Science	4
GSCI-3060 Environmental Science for Middle	
School Educators	
Social Studies	
ECON-2110 Essentials of Economics	
EDMC-4300 Teaching Social Studies: Middle Childhood	
GEO-3510 World Regional Geography — Western	
HIST-1120 United States History II	
HIST-2010 History of Civilization I	3

Middle Childhood Education Major Curriculum Summary

whate officious Education Major Ourriculum Summi	aiy
Proficiency Requirements	0–4
General Education Requirements	.51–62.5
Middle Childhood Education Major Requirements	47
Concentration Requirements	35–37.5
Total (minimum, not including proficiency)	133*
*Total credits vary depending on concentrations chosen.	

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Middle Childhood Education

First year: BTGE-1725 The Bible and the Gospel 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 EDUC-1000 The Education Profession 2 EDUC-1050 Preliminary Student Involvement 0 EDUC-1800 Principles of Mathematics I 0-3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and Healthy Living 2 Concentration Electives 8 Total 36.5
Second year: 3 BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 EDSP-2100 Exceptionalities and Behavior 2 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Educational Psychology 3 BDUC-2800 Principles of Mathematics II 3 EDUC-3100 Philosophical Foundations of Education 3 ESCI/GSCI-XXXX Physical Science Elective 3.5-4 Concentration Electives 8 LIT-2XXX Literature Elective 3 Total 38.5-39
Third year: BTGE-3765 Theology II
Fourth year: EDMC-4000 Reading and Writing in the Disciplines: Middle Childhood



School of Education Primary (P-5) Education

Primary (P-5) Education

The **primary (P-5) education major** prepares students to teach preschool to grade five in public and Christian schools.

Course requirements involve 71 semester nours including:	
Teacher Education Core (see page 105)	14
Primary (P-5) Foundations	11
EDEC-2100 Art and Music for Primary (P-5) Education	2
EDEC-2300 Phonics and the Reading Process	4
EDSP-2500 Survey of Intellectual and	
Developmental Disabilities	
ESED-2900 Health and Movement Education	2
PYCH-2725 Child Development	2
Primary (P-5) Methods I	
EDEC-3500 Primary (P-5) Education	3
EDEC-3600 Issues in Primary (P-5) Administration	
EDEC-3800 Teaching Primary (P-5) Language Arts	
EDEC-3900 Kindergarten Field Experience	
EDEC-3950 Primary (P-5) Field Experience I	
EDSP-3100 Diagnostics and Intervention in Reading	3
Primary (P-5) Methods II	
EDEC-4000 Reading in the Content Areas: Primary (P-5)	
EDEC-4100 Teaching Primary (P-5) Mathematics	
EDEC-4200 Teaching Primary (P-5) Science	
EDEC-4300 Teaching Primary (P-5) Social Studies	
EDEC-4450 Primary (P-5) Field Experience II	
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDUC-3200 Faith and Learning Alignment	
Student Teaching* *EDEC-4900 Student Teaching and Seminar: (P-5)	
*Capstone Course	12
Oupsidic Oddisc	



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Primary (P-5) Education

First year:	
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession	
EDUC-1800 Principles of Mathematics I	
EDUC-2100 e-Learning for Educators	
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
GBIO-1000 Principles of Biology	5
GSCI-1010 Principles of Earth Science	2
PEF-1990 Physical Activity and Healthy Living	2
PYCH-2725 Child Development	
History Elective	
Total	4
Second year:	
BTGE-2740 New Testament Literature	ર
BTGE-3755 Theology I	
EDEC-2100 Art and Music for Primary (P-5) Education	
EDEC-2300 Phonics and the Reading Process	
EDSP-2100 Exceptionalities and Behavior	2
EDSP-2500 Survey of Intellectual and Developmental Disabilities	1
EDUC-1050 Preliminary Student Involvement	
EDUC-2050 Teaching Diverse Learners	
EDUC-2300 Assessment and Differentiation	
EDUC-2800 Principles of Mathematics II	
EDUC-3100 Philosophical Foundations of Education	3
GSCI-2010 Physical Science for Teachers	4
Global Studies Elective	3
LIT-2XXX Literature Elective	3
Total	5
Third	
Third year:	_
BTGE-3765 Theology II	3
EDEC-3500 Primary (P-5) Education	
EDEC-3600 Issues in Primary (P-5) Administration	
EDEC-3800 Teaching Primary (P-5) Language Arts	4
EDEC-3900 Kindergarten Field Experience	1
EDEC-3950 Primary (P-5) Field Experience I	3
EDSP-3100 Diagnostics and Intervention in Reading	3
EDUC-2400 Children's Literature	3
EDUC-2500 Educational Psychology	3
ESED-2900 Health and Movement Education	2
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
Total	4
Fourth year:	
EDEC-4000 Reading in the Content Areas: Primary (P-5)	2
EDEC-4100 Teaching Primary (P-5) Mathematics	3
EDEC-4200 Teaching Primary (P-5) Science	
EDEC-4300 Teaching Primary (P-5) Social Studies	
EDEC-4450 Primary (P-5) Field Experience II	3
EDEC-4900 Student Teaching and Seminar: (P-5)12	2
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDUC-3200 Faith and Learning Alignment	1
Total29	

Special Education — Intervention Specialist The special education — intervention specialist major

prepares teachers to work with students in grades K to 12 who have mild to moderate special education needs.

Course requirements involve 79 semester hours including:
Teacher Education Core (see page 105)14
Special Education Foundations10
EDEC-2300 Phonics and the Reading Process4
EDSP-2400 Language Development and
Communication Disorders
EDSP-2500 Survey of Intellectual and
Developmental Disabilities 1
PYCH-2735 Child-Adolescent Development
Special Education Block16
EDSP-2700 Teaching Children Mild to Moderate Disabilities 2
EDSP-3500 Special Education Law
EDSP-4100 Adaptive Curriculum and Instruction
EDSP-4125 Middle School Mathematics Topics for
Special Educators 1
EDSP-4150 Career and Occupational Training2
EDSP-4300 Behavior and Instructional Management 2
EDSP-4400 Assessment in Special Education
EDSP-4550 Special Education Field Experience: AYA
Reading Methods10
EDEC-3800 Teaching Primary (P-5) Language Arts4
EDSP-3150 Intervention and Diagnosis in Reading for
Special Educators3
EDSP-3950 Special Education Field Experience: (P-5)3
Primary (P-5) Methods II17
EDEC-4000 Reading in the Content Areas: Primary (P-5) 2
EDEC-4100 Teaching Primary (P-5) Mathematics
EDEC-4200 Teaching Primary (P-5) Science
EDEC-4300 Teaching Primary (P-5) Social Studies
EDSP-4250 Communication, Collaboration, and Inclusion 2
EDSP-4450 Special Education Field Experience: MC3
EDUC 3200 Faith and Learning Alignment 1
Student Teaching12
*EDSP-4900 Student Teaching and Seminar: SPED 12
*Capstone Course
Special Education Major Curriculum Summary
Proficiency Requirements0-4
General Education Requirements54–65
Special Education Major Requirements79

Proficiency Requirements	0–4
General Education Requirements	
Special Education Major Requirements	79
*Early Child Requirements for Dual Licensure (optional)	
Total (minimum, not including proficiency)	

*Dual Licensure optional courses listed on page 86)



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Special Education — Intervention Specialist

BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature3
COM-1100 Fundamentals of Speech
EDSP-2400 Language Development and Communication Disorders2
EDUC-1000 The Education Profession
EDUC-1800 Principles of Mathematics I
EDUC-2100 e-Learning for Educators
EDUC-2400 Children's Literature3
EDUC-2800 Principles of Mathematics II
ENG-1400 Composition3
GBIO-1000 Principles of Biology
GSCI-1020 Principles of Physical Science
PYCH-2735 Child-Adolescent Development
10tal 35-36
Second year:
BTGE-2740 New Testament Literature3
BTGE-3755 Theology I3
EDEC-2300 Phonics and the Reading Process4
EDSP-2100 Exceptionalities and Behavior
EDSP-2500 Survey of Intellectual and Developmental Disabilities1 EDUC-1050 Preliminary Student Involvement
EDUC-1050 Preliminary Student Involvement0 EDUC-2050 Teaching Diverse Learners2
EDUC-2300 Assessment and Differentiation
EDUC-2500 Educational Psychology
EDUC-3100 Philosophical Foundations of Education
GSS-1100 Politics and American Culture3
Global Studies Elective3
History Elective3
Total
Third year:
BTGE-3765 Theology II3
HUM-1400 Introduction to the Humanities3
DEE (000 D)
PEF-1990 Physical Activity and Healthy Living2
Primary (P-5) Methods II (15 credits)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)2
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)2 EDEC-4100 Teaching Primary (P-5) Mathematics
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)
Primary (P-5) Methods II (15 credits) EDEC-4000 Reading in the Content Areas: Primary (P-5)

School of Education Special Education — Intervention Specialist

Special Education/Primary (P-5) Education Dual Licensure Option

Special education majors who wish to qualify for primary (P-5) education licensure (pre-K to grade 5, all subjects) may do so by adding the following courses. A combined special education/primary (P-5) education student teaching (EDUC-4950) must be substituted for EDSP-4900 Student Teaching and Seminar: Special Education. The primary (P-5) and special education student teaching experiences will be combined in a single semester-long experience.

*Additional courses for dual licensure	14.5
EDEC-2100 Art and Music for Primary (P-5) Education	2
EDEC-3500 Primary (P-5) Education	3
EDEC-3600 Issues in Primary (P-5) Administration	3
EDEC-3900 Kindergarten Field Experience	
ESED-2900 Health and Movement Education	2
GSCI-1010 Principles of Earth Science	3.5
Special Education Major Curriculum Summary	
Proficiency Requirements	0–4
General Education Requirements	54-62
Special Education Major Requirements	79
Primary (P-5) Requirements for Dual Licensure	14.5

A complete description of the general education requirements is found on page 24.

Total (minimum, not including proficiency)147.5

Suggested Four-Year Curriculum for Dual Licensure for Majors in Special Education — Intervention Specialist and Primary (P-5) Education

First year:
Fall semester
BTGE-1725 The Bible and the Gospel3
COM-1100 Fundamentals of Speech
EDUC-1000 The Education Profession2
EDUC-1800 Principles of Mathematics I
EDUC-2100 e-Learning for Educators
GBIO-1000 Principles of Biology
Spring semester
BTGE-2730 Old Testament Literature
EDUC-2800 Principles of Mathematics II
ESED-2900 Health and Movement Education for Young Child2 ENG-1400 Composition
GSCI-1010 Principles of Earth Science
PYCH-2735 Child-Adolescent Development
Total
Summer
BTGE-2740 New Testament Literature
LIT-2XXX Literature Elective
Total6
Occasional research
Second year:
Fall semester EDEC 2300 Phonics and the Booding Process
EDEC-2300 Phonics and the Reading Process
EDSP-2500 Survey of Intellectual and Developmental Disabilities 1
EDUC-1050 Preliminary Student Involvement
EDUC-2050 Teaching Diverse Learners
EDUC-2300 Assessment and Differentiation
EDUC-2400 Children's Literature3
GSCI-1020 Principles of Physical Science
Total

Spring semester
BTGE-3755 Theology I3
EDEC-2100 Art and Music for Primary (P-5) Education2
EDSP-2400 Language Development and
Communication Disorders
EDUC-2500 Educational Psychology
EDUC-3100 Philosophical Foundations of Education
GSS-1100 Politics and American Culture
PEF-1990 Physical Activity and Healthy Living
Total
Summer
HUM-1400 Introduction to the Humanities
Global Studies Elective
Total 6
Third year:
Fall semester
Methods I (17 credit hours as follows):
EDEC-3500 Primary (P-5) Education
EDEC-3600 Issues in Primary (P-5) Administration
EDEC-3800 Teaching Primary (P-5) Language Arts4
EDEC-3900 Kindergarten Field Experience
EDSP-3150 Intervention and Diagnosis in Reading for
Special Educators
EDSP-3950 Special Education Field Experience: (P-5)
Total
Spring semester
History Elective
EDEC-4000 Reading in the Content Areas: Primary (P-5)2 EDEC-4100 Teaching Primary (P-5) Mathematics
EDEC-4200 Teaching Primary (P-5) Science
EDSP-4450 Special Education Field Experience: MC
EDUC-3200 Faith and Learning Alignment
Total
10(a) 10
Fourth year:
Fall semester
BTGE-3765 Theology II
EDSP-4250 Communication, Collaboration, and Inclusion2
Special Education Block (16 credit hours as follows):
EDSP-2700 Teaching Children Mild to Moderate Disabilities2
EDSP-3500 Special Education Law1
EDSP-4100 Adaptive Curriculum and Instruction2
EDSP-4125 Middle School Mathematics Topics for
Special Educators
EDSP-4150 Career and Occupational Training2
EDSP-4300 Behavior and Instructional Management2
EDSP-4400 Assessment in Special Education3
EDSP-4550 Special Education Field Experience: AYA3
Total21
Spring semester
EDUC-4950 Student Teaching and Seminar: SpE and (P-5)12
Total

School of Education Adolescent/Young Adult and Multi-Age Licensure Programs

Adolescent/Young Adult and Multi-Age Licensure Programs

The adolescent/young adult licensure programs prepare teachers to work with students in grades 7–12. The Ohio Department of Education has approved Cedarville University to issue adolescent/young adult licenses for teachers in the areas of integrated science (comprehensive), integrated life science, integrated physical science, integrated physics, integrated chemistry, integrated mathematics, integrated language arts, and integrated social studies. In addition to approving the previously listed programs, the Association of Christian Schools International has also approved Cedarville to offer ACSI certification in integrated Bible.

The **multi-age licensure education programs** prepare teacher candidates to work with students in grades pre-K to 12. The Ohio Department of Education has approved Cedarville University to issue multi-age licenses in the areas of music education, Spanish education, physical education, and health and physical education.

The course requirements for each licensure field are outlined in the catalog under the department that offers the major; however, the following courses are common to all adolescent/young adult majors and are prerequisites for admission to the Teacher Education Program and upper-level education classes for these programs.

Teacher Education Core	14
EDSP-2100 Exceptionalities and Behavior	2
EDUC-1000 The Education Profession	
EDUC-1050 Preliminary Student Involvement	0
EDUC-2050 Teaching Diverse Learners	2
EDUC-2100 e-Learning for Educators	3
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	3

Upon completion of the Teacher Education Core and before enrolling in the Principles of Teaching block, students must make formal application to the Teacher Education Program (TEP). The requirements for admission to the TEP are outlined earlier in this section of the catalog. Most adolescent and young adult and multi-age teacher education majors apply for admission during their sophomore year. The School of Education's licensure and testing coordinator provides students with specific information on procedures for admission to the TEP.

Methods of Teaching Block (all AYA majors and MA Spanish)

The following courses are to be taken together the fall semester prior to the student teaching experience.

prior to the student teaching experience.	
EDSE-4450 Adolescent/Young Adult Field Experience	2
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDUC-3200 Faith and Learning Alignment	1
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
Additional Requirements:	
EDSE-3000 Principles of Teaching AYA Learners	4
EDSE-4900 Student Teaching and Seminar: AYA	12
(or EDUC-4900 Student Teaching and Seminar: MA	12)
EDUC-3100 Philosophical Foundations of Education	









School of Engineering and Computer Science

Mission Statement
Programs of Study112
Personal Requirements
School Requirements
Technical Resources113
Cocurricular Opportunities113
Career Opportunities113
Engineering Educational Objectives113
Educational Philosophy for Engineering and
Computer Science Programs 113
Faculty114
Engineering and Computer Science Advisory
Council113

Majors	
» Civil Engineering — Bachelor of	
Science	115
» Computer Engineering	117
» Computer Science — Bachelor of	
Science	118
» Cyber Operations — Bachelor of	
Science	119
» Electrical Engineering	120
» Mechanical Engineering	121
Minors	
» Biomedical Engineering Minor	122
» Computer Science Minor	122
Special Programs	
» Cooperative Education Program	122
» Engineering Honors Program	122
School of Engineering and Computer Science	Э
Course Descriptions	261

School of Engineering and Computer Science Mission Statement

Mission Statement

The School of Engineering and Computer Science offers accredited programs in computer, electrical, and mechanical engineering, as well as computer science. Our philosophy centers on a rigorous, back-to-basics education that is rich with hands-on opportunities to apply classroom theory. Our faculty share a common vision that states: "We, the School of Engineering and Computer Science, seek to honor the Lord Jesus Christ in every endeavor and earnestly desire to cultivate technical professionals who are committed to moral excellence and who are exemplary in character, conduct, and skill. Therefore, we strive to provide an excellent educational environment that will nurture our students to honor the Lord in all things and help them to grow in spiritual maturity, wisdom, knowledge, and expertise for purposeful lives of service."

Programs of Study

The School of Engineering and Computer Science offers the following programs of study:

Majors

- Civil Engineering (B.S.C.E.)
- · Computer Science (B.S.)
- Computer Engineering (B.S.Cp.E.)
- · Cyber Operations (B.S.)
- Electrical Engineering (B.S.E.E.)
- Mechanical Engineering (B.S.M.E.)

Minors

- Biomedical Engineering
- Computer Science

Special Programs

- Cooperative Education Program
- Engineering Honors Program

Accreditation

The B.S.Cp.E., B.S.E.E., and B.S.M.E. degree programs are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. The B.S. in computer science degree program and the concentration in cyber operations are accredited by the Computing Accreditation Commission of ABET, http://www.abet.org. Accreditation will be sought for the new civil engineering major (B.S.C.E.) at the earliest possible date once the first class of civil engineering students graduates.

Registration as a Professional Engineer

Senior engineering majors and graduate engineers are eligible to take the NCEES Fundamentals of Engineering (FE) Examination offered through NCEES (ncees.org). This exam is the first of two required to become a licensed Professional Engineer. The exam is now a discipline-specific exam which is administered year-round at NCEES-approved Pearson VUE test centers. A number of test centers are available for students in the Cincinnati, Columbus, and Dayton areas. All engineering students are strongly encouraged to complete the FE exam prior to their graduation. Cedarville seniors have passed the FE exam at a rate that is consistently higher than the national pass rates.

Personal Requirements

Students interested in one of the programs housed within the School of Engineering and Computer Science should possess a strong aptitude in mathematics and physical sciences. Those students who flourish in our programs typically enjoy applying their aptitude toward solving problems. Successful engineers and computer scientists are individuals who enjoy designing solutions to problems.

School Requirements

New Students

Students who excel in science and mathematics, enjoy solving real-life problems, and wish to serve others have the highest potential for careers in engineering and computer science. Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1100 or a CLT of 72) in order to declare a major in the department. We have also determined that incoming engineering students should achieve one of the following to be successful in engineering: an ACT Math subscore greater than 25, an SAT Math sub-score greater than 621, or a CLT Quantitative sub-score of greater than 26. To assist the incoming students who desire an engineering major but do not meet our identified math scores to succeed, such students will be identified as "Engineering" students for the first year rather than by one of the specific engineering degree programs. Students identified as "Engineering" students will receive closer academic monitoring during their first year and will be permitted to declare a specific engineering program major after successfully completing Calculus I (MATH-1710) at Cedarville with a minimum grade of 'C". Additionally, non-civil engineering students will also need to complete Digital Logic Design (EGCP-1010) at Cedarville with a minimum grade of 'C'. We strongly encourage all students interested in engineering to read "Engineering: Is it a four- or fiveyear degree program?," which outlines the importance of being ready to enter Calculus I at the start of our engineering programs as well as some options to help prepare for calculus.

To prepare for engineering or computer science, high school students should take a college preparatory curriculum that includes:

- four units of mathematics (algebra, geometry, trigonometry, and advanced mathematics or precalculus)
- four units of science (physical science, biology, chemistry, and physics)
- two units of the same foreign language

Experience with spreadsheets and word processors is helpful, but not required for entry.

Progression Requirements

Engineering students must demonstrate proficiency in certain lower-level courses to advance into upper-level 3000- and 4000-level courses. Therefore, all students must earn an overall GPA of at least 2.0 by the end of their sophomore year. In addition, each engineering and computer science program has its own progression requirements as follows.

Civil Engineering (CE)

To advance into the junior year, CE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCE-1920, 2410, 3910, EGGN-1110, and EGME-2530, 2630.

In addition, CE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CHEM-1050, MATH-1710, 1720, 2710, 2740, and PHYS-2110.

Computer Science (CS)

Computer Science majors must achieve a grade of at least C- in the following courses prior to taking any course that requires one of them as a prerequisite: CS-1210, 1220, 2210, 3410, 4810, CY-1000, and CY-3420.

School of Engineering and Computer Science Technical Resources

Computer Engineering (CpE)

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering and computer science courses: CS-1210, 1220, 2210, 3310, EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810 and 2570.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2520, 2740 and PHYS-2110 and 2120.

Cyber Operations (CY)

Cyber Operations majors must achieve a grade of at least C- in the following courses prior to taking any course that requires one of them as a prerequisite: CS-1210, 1220, 2210, 3410, CY-1000, CY-3420, and CY-4810.

Electrical Engineering (EE)

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: CS-1210, 1220, EGCP-1010, EGGN-1110, EGEE-2010, 2110, and EGME-1810, 2570.

In addition, EE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2710, 2740, and PHYS-2110 and 2120.

Mechanical Engineering (ME)

To advance into the junior year, ME majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2050, and EGME-1810, 2050, 2530, and 2630.

In addition, ME majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2710, and 2740, and PHYS-2110 and 2120.

Graduation Requirements

- Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
- All engineering majors must take an assessment exam similar to the NCEES FE exam.

Technical Resources

Our modern laboratories include the following: fluids lab with an 18-inch cross-section wind tunnel, heat transfer, refrigeration, mechanics, materials testing, internal combustion engines, and dynamometers, CNC manufacturing, vibrations, dynamics of machines, electrical machines, feedback controls, circuits, electronics, communications, digital logic design, microprocessors, surface-mount soldering, water resources, concrete fabrication and testing, environmental, and transportation. We also have extensive PC-based laboratories in which students use computer-based circuit design, 3-D solid modeling, FEA, CFD, CNC, and industry-standard IDE software.

Cocurricular Opportunities

Engineering freshmen participate in an annual Cardboard Canoe Challenge. Other course-based competitions include statics and dynamics design competitions for sophomores, a full-scale truss design competition for civil engineering majors, an Advanced Digital Logic Design competition, and an annual programming contest. The department provides students with opportunities to participate in national and international design competitions organized by professional engineering societies such as ACM, ASCE, ASME, IEEE, SAE, ASEE, and SWE. Our students participate in Aero Design®, RoboBoat, international programming, robotics, Solar Splash®, and Supermileage® competitions.

Career Opportunities

Engineering and computer science both involve the application of scientific and mathematical principles, experience, judgment, and common sense to develop devices which help people. Engineers redesign products to work more efficiently, more quickly, and less expensively. They design buildings, bridges, and urban infrastructure, EKG and ultrasound machines that help doctors diagnose medical problems, electrical engineering plants to power our cities, and more fuel-efficient cars and airplanes. Computer programmers develop the software solutions that are used to pilot spacecraft, combat terrorism, prevent collisions at airports, and keep our cars running.

Computer scientists and engineers spend a great deal of time interacting and communicating with others, often working on a team. Because of their strong background in science, mathematics, and technology, they often rise to leadership positions in organizations, managing programs in research, development, design, construction, production, operations, marketing, and sales.

In this era of rapid technological change, an engineering or computer science education serves our society well. In the decades ahead, society's needs and problems will call for technical contributions on a scale not previously experienced.

Engineering Educational Objectives

The School of Engineering and Computer Science educational objectives define God-honoring characteristics of our students within a few years of graduating from Cedarville University.

- They are successful in professions related to their fields of study.
- 2. They are successful in graduate-level education.
- They continue to develop professionally and remain current in their fields.
- They make sound professional and ethical decisions based upon biblical truths.
- They continue to grow in service and support of Christian ministries, both in their communities and around the world.

Educational Philosophy for Engineering and Computer Science Programs

All of our programs are designed to give our graduates a solid background in their technical fields of choice. Our programs include a strong theoretical foundation as well as significant hands-on application. Each program also includes a senior capstone design experience. The three engineering programs share a common philosophy of program outcomes which are consistent with the ABET engineering criteria. Similarly, our computer science program philosophy is consistent with the ABET computer science criteria.

Engineering and Computer Science Advisory Council

The Engineering and Computer Science Advisory Council consists of professionals and business leaders representing a variety of technology-related businesses. Through annual meetings, these experts advise the University and evaluate its programs and plans for building upon Cedarville's reputation for excellence in undergraduate engineering and computer science education.

Nick Awabdy, I.M.M.I.
Ronald Baker, Hi-Tech Aero Spares
Carl Bertsche, Jr., Production Engineering Company
Rob Bouwens, Rolls Royce Corporation
Robert Bujeaud, Turbocam
David Girtz, Girtz Industries
Richard Holmes, Holmes and Mays

School of Engineering and Computer Science Faculty

Douglas Keating, Boeing
Ed Krupka, Burris Logistics
Joe Mays, Holmes and Mays
Walker Mitchell, Mitchell Consulting
Mark Overmyer, Zenith Restoration
Bob Porter, Xetron (Northrop Grumman)
Daniel Rogers, Duotech Services
Jeff Silvey, General Electric Aviation
Greg Smith, Northrop Grumman Space Technology
Tim Storer, Procter & Gamble
Ben TerreBlanche, SigmaTEK Systems
Don Wilkinson, Lakeshore HfH
Greg Winchester, Summit Investors

Faculty

Robert Chasnov, Dean; Senior Professor of Engineering. Education: B.S., Rensselaer Polytechnic Institute, 1978; M.S., University of Illinois, 1980; Ph.D., University of Illinois, 1983; registered professional engineer. At Cedarville since 1991. Stephen Ayers, Assistant Dean; Professor of Civil Engineering. Education: B.Eng. (Mech) Honors I, University of Southern Queensland, 1994; Ph.D. (Civil Eng), University of Southern Queensland, 2001. At Cedarville since 2018.

Gerald Brown, Professor of Electrical Engineering. *Education:* B.Engr., McMaster University, 1982; M.Engr., McMaster University, 1984; Ph.D., McMaster University, 1989. At Cedarville since 2004.

Xiaowei (Shawn) Chen, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., First Aeronautical College of the Air Force, Xinyang, Henan, China, 2008; Ph.D., North Dakota State University, 2018. At Cedarville since 2018.

Mackenzie Davies, Instructor of Civil Engineering. *Education:* B.S., LeTourneau University, 2017; M.S.E., Purdue University, 2020. At Cedarville since 2020.

Timothy Dewhurst, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., Cornell University, 1980; M.Eng.M., Cornell University, 1981; Ph.D., Cornell University, 1985; registered professional engineer. At Cedarville since 1996.

David Dittenber, Associate Professor Civil Engineering. *Education:* B.S., LeTourneau University, 2007; M.S.E., West Virginia University, 2010; Ph.D., West Virginia University, 2013. At Cedarville since 2020.

Patrick Dudenhofer, Assistant Professor of Computer Science. *Education:* B.S., Cedarville University, 2004; M.S. Wright State University, 2011. At Cedarville since 2014.

Vicky Fang, Professor of Computer Engineering. *Education:* B.S.E.E., Shaghai Jiao Tong University, 1992; M.S.E.T., Pittsburg State University, 1998; Ph.D., The University of Akron, 2004. At Cedarville since 2004.

Danielle Fredette, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., Cedarville University, 2012; M.S.E.C.E. The Ohio State University, 2015. At Cedarville since 2017.

Luke Fredette, Assistant Professor of Mechanical Engineering. *Education:* B.S.M.E., Cedarville University, 2012; M.S.M.E., The Ohio State University, 2014; Ph.D., The Ohio State University, 2016. At Cedarville since 2020.

David Gallagher, Senior Professor of Computer Science. *Education:* B.S.E.E., United States Air Force Academy, 1978; M.S.E.E., Air Force Institute of Technology, 1987; Ph.D., University of Illinois, 1995. At Cedarville since 2000.

Seth Hamman, Associate Professor of Computer Science. *Education:* B.A., Duke University, 2002; M.S. Yale University, 2011; Ph.D., The Air Force Institute of Technology, 2016. At Cedarville since 2012.

Frederick Harmon, Associate Professor of Electrical Engineering. *Education:* B.S.E.E., Embry-Riddle Aeronautical University, 1992; M.S.E.E., Air Force Institute of Technology, 1996; Ph.D., University of California-Davis, 2005. At Cedarville since 2014.

Jay Kinsinger, Associate Professor of Mechanical and Biomedical Engineering. *Education:* B.S., Mechanical Engineering Technology and B.S., Manufacturing Technology, University of Dayton, 1992; M.S., Biomedical Engineering, Wright State University, 2000. At Cedarville since 1999.

Clinton Kohl, Senior Professor of Computer Engineering. *Education:* B.S.E.E., South Dakota State University, 1988; M.S.E.E., University of North Dakota, 1990; Ph.D., Iowa State University, 1992. At Cedarville since 1994.

George Landon, Professor of Computer Science, *Education:* B.S., University of Kentucky, 2002; Ph.D., University of Kentucky, 2008. At Cedarville since 2019.

Timothy Norman, Distinguished Professor of Mechanical and Biomedical Engineering. *Education:* B.S.A.A.E., Purdue University, 1982; M.S.A.A.E. Purdue University, 1986; Ph.D., Purdue University, 1989; registered professional engineer. At Cedarville since 2003.

Zhaohui (George) Qin, Associate Professor of Mechanical Engineering. *Education:* B.S., Shanghai Jiaotong University, 1996; M.S., Shanghai Jiaotong University, China, 1999; Ph.D., Iowa State University, 2007. At Cedarville since 2012.

Keith Shomper, Professor of Computer Science. *Education:* B.A., University of Northern Colorado, 1983; M.S., Air Force Institute of Technology, 1984; Ph.D., The Ohio State University, 1993. At Cedarville since 2003.

Jeffrey Shortt, Professor of Electrical Engineering. *Education:* B.S.E.E., Virginia Polytechnic Institute and State University, 1974; M.S.E.E., Virginia Polytechnic Institute and State University, 1979; Ph.D., Virginia Polytechnic Institute and State University, 1982. At Cedarville since 1996.

Thomas Thompson, Professor of Mechanical Engineering. *Education:* B.S.M.E., University of Nebraska-Lincoln, 1984; M.S.M.E., University of Nebraska-Lincoln, 1986; Ph.D., Iowa State University, 1995; registered professional engineer. At Cedarville since 1995.

Timothy Tuinstra, Professor of Electrical Engineering. *Education:* B.S.E.E., Cedarville University, 1996; M.S.E.E., University of Dayton, 1998; Ph.D., University of Dayton, 2008. At Cedarville since 2002.

Lawrence Zavodney, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., The University of Akron, 1974; M.S.M.E., The University of Akron, 1977; Ph.D., Virginia Polytechnic Institute and State University, 1987; registered professional engineer. At Cedarville since 1992.

Technical Support Staff

Daniel Esbenshade, Engineering Lab Technician. *Education:* Pre-Engineering Technologies, Eastland Career Center. At Cedarville since 2020.

James Landers, Computer and Electrical Engineering Technician, *Education:* Gateway Electronics, Microsoft, FCC. At Cedarville since 2005.

Emeriti

Harwood Hegna, Professor Emeritus of Mechanical Engineering. *Education:* B.S.A.E., University of Minnesota, 1969; M.S.A.E., University of Minnesota, 1971; M.S.M.E., University of Minnesota, 1973; Ph.D., Air Force Institute of Technology, 1981; registered professional engineer. At Cedarville since 1992.

School of Engineering and Computer Science Civil Engineering — Bachelor of Science

Civil Engineering — Bachelor of Science
Course requirements for the Bachelor of Science in Civil Engineering (B.S.C.E.) degree are comprised of the following and may be modified by the department chair.

Course requirements involve 74.5-75 semester hours include	ing:
Civil Engineering Core	43
EGCE-1920 Introduction to Civil Engineering	2
EGCE-2320 Principles of Surverying	2
EGCE-2410 Civil Engineering Materials	4
EGCE-3110 Geotechnical Engineering	4
EGCE-3210 Introduction to Hydraulic Engineering	3
EGCE-3510 Structural Analysis	3
EGCE-3610 Environmental Engineering	4
EGCE-3910 Civil Engineering Management	2
**EGCE-4810 Civil Engineering Senior Design I	3
**EGCE-4820 Civil Engineering Senior Design II	3
EGCE-4910 Civil Engineering Practice	
EGGN-1110 The Engineering Profession	
¹ EGGN-3110 Professional Ethics	3
EGME-2530 Statics and Mechanics of Materials	5
EGME-2630 Dynamics	3
Civil Engineering Concentration Electives3	1.5-32
² Level I Civil Engineering Electives	3
EGCE-3410 Contruction Engineering	3
EGCE-3710 Transportation Engineering	3
² Level II Civil Engineering Design Electives	8
EGCE-3220 Design of Water Distribution Systems	4
EGCE-3520 Design of Steel Structures	
EGCE-3620 Air Pollution Management and Design	4
² Level III Civil Engineering Design Electives	7
EGCE-4220 Hydrology	3
EGCE-4510 Reinforced Concrete Design	4
EGCE-4520 Design of Wood Structures	3
EGCE-4610 Design of Water Treatment Systems	
EGCE-4620 Environmental Management	
and Policy Development	3
EGCE-4920 Intrastructure for Developing Contexts	3
² Approved Techincal Electives	6
EGEE-2050 Circuits and Instrumentation	3
EGME-2050 Computational Methods	3
ENVS-3100 Principles of Geographic Information	
SystemsAny 3000/4000-level EGCE, EGEE, EGGN, EGME, CHEN	3
MATH	3
² Level II Lab Science Elective	
CHEM-1120 General Chemistry II	4
PHYS-2120 General Physics II	
^{2,5} Biological Science Elective	
Required Cognates	26.5
³ CHEM-1050 Chemistry for Engineers	
⁴ MATH-1710 Calculus I	
MATH-1720 Calculus II	
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	
MATH-3110 Probability and Statistics	3
PHYS-2110 General Physics I	4

¹Satisfies humanities general education requirements.

Environmental Engineering Concentration Requirement	ents32
Level I Civil Engineering Elective	3
Level II Civil Engineering Design Electives	
EGCE-3220 Design of Water Distribution Systems	
EGCE-3620 Air Pollution Management and Design	
Level III Civil Engineering Design Electives	
EGCE-4610 Design Water Treatment Systems	
EGCE-4620 Environmental Management and	
Policy Development	3
Approved Technical Elective	6
ENVS-3100 Principles of Geographic Information	
Systems	3
Elective	
Level II Lab Science Elective	
CHEM-1120 General Chemisty II	
Biological Science Elective	. 1
BIO-2210 Microbiology	
BIO-22 TO MICIODIOlogy	4
General Civil Engineering Concentration Requiremen	its32
Level I Civil Engineering Elective	3
EGCE-3410 Construction Engineering	
Level II Civil Engineering Design Electives	8
EGCE-3220 Design of Water Distribution Systems	
EGCE-3520 Design of Steel Structures	
Level III Civil Engineering Design Electives	7
EGCE-4610 Design of Water Treatment Systems	4
EGCE-4520 Design of Wood Structures	3
Approved Technical Electives	
EGCE-3710 Transportation Engineering	3
Elective	
Level II Lab Science Elective	
CHEM-1120 General Chemistry II	4
PHYS-2120 General Physics II	4
Biological Science Elective	
BIO-2210 Microbiology	4
International Infrastructure Engineering Concentration	'n
Requirements	
Level I Civil Engineering Elective	3
EGCE-3410 Construction Engineering	
Level II Civil Engineering Design Electives	8
EGCE-3220 Design of Water Distribution Systems	
EGCE-3520 Design of Steel Structures	
Level III Civil Engineering Design Electives	7
EGCE-4610 Design of Water Treatment Systems	
EGCE-4920 Intrastructure for Developing Contexts	
Approved Technical Electives	6
EGCE-4510 Reinforced Concrete Design	3
Elective	
Level II Lab Science Elective	4
CHEM-1120 General Chemistry II	
PHYS-2120 General Physics II	
Biological Science Elective	
BIO-2210 Microbiology	4



²See concentration sequences for eligible elective combinations

³Satisfies physical science general education requirements

⁴Satisfies mathematics general education requirements

⁵Satisfies biological science general education requirements

^{*} ECON-2110 Essentials of Economics required Social Science elective

^{**}Capstone Course

School of Engineering and Computer Science Civil Engineering — Bachelor of Science

Structural Engineering Concentration Requirements	31.5
Level I Civil Engineering Elective	3
EGCE-3410 Construction Engineering	
Level II Civil Engineering Design Electives	
EGCE-3520 Design of Steel Structures	4
Design Elective	
Level III Civil Engineering Design Electives	
EGCE-4510 Reinforced Concrete Design	
EGCE-4520 Design of Wood Structures	
Approved Technical Electives	
Level II Lab Science Elective	
CHEM-1120 General Chemistry II	4
PHYS-2120 General Physics II	4
Biological Science Elective	3.5
GBIO-1000 Principles of Biology	.3.5
Water Resources Engineering Concentration	
Requirements	32
Level I Civil Engineering Elective	3
EGCE-3410 Construction Engineering	
Level II Civil Engineering Design Electives	
EGCE-3220 Design of Water Distribution Systems	
Design Elective	4
Level III Civil Engineering Design Electives	
EGCE-4220 Hydrology	3
EGCE-4610 Design of Water Treatment Systems	
Approved Technical Electives	
Level II Lab Science Elective	
CHEM-1120 General Chemistry II	
PHYS-2120 General Physics II	
Biological Science Elective	
BIO-2210 Microbiology	4
Civil Engineering Major (B.S.) Curriculum Summary	
Proficiency Requirements	
General Education Requirements	
Civil Engineering Core Requirements	
Civil Engineering Concentration Requirements	
Required Cognates	
Total (minimum, not including proficiency)	139



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Civil Engineering — B.S.

First year:	
BTGE-1725 The Bible and the Gospel	
CHEM-1050 Chemistry for Engineers	
COM-1100 Fundamentals of Speech	
CON-1100 Full damentals of Speech	
EGCE-1920 Introduction to Civil Engineering2	
EGGN-1110 The Engineering Profession1	
ENG-1400 Composition3	
HUM-1400 Introduction to Humanities	
MATH-1710 Calculus I5	
MATH-1720 Calculus II5	
PEF-1990 Physical Activity and Healthy Living2	
PHYS-2110 General Physics I4	
Total	
Second year:	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
BIO-XXX Elective	
*ECON-2110 Essentials of Economics	
EGCE-2320 Principles of Surveying2	
EGCE-2410 Civil Engineering Materials4	
EGME-2530 Statics and Mechanics of Materials5	
EGME-2630 Dynamics	
MATH-2710 Calculus III3	
MATH-2740 Differential Equations3	
Level II Lab Science Elective4	
Total	
Total	
Third year:	
Third year:	
Third year: BTGE-3755 Theology I3	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: 3 BTGE-3755 Theology I	
Third year: 3 BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I	
Third year: BTGE-3755 Theology I 3 EGCE-3110 Geotechnical Engineering 4 EGCE-3210 Introduction to Hydraulic Engineering 3 EGCE-3510 Structural Analysis 3 EGCE-3610 Environmental Engineering 4 EGCE-3910 Civil Engineering Management 2 EGCE-XXXX Level I Civil Engineering Elective 3 EGCE-XXXX Level II Civil Design Electives 8 GSS-1100 Politics and American Culture 3 MATH-3110 Probability and Statistics 3 Total 36 Fourth year: BTGE-3765 Theology II 3 EGCE-4810 Civil Engineering Senior Design I 3 EGCE-4820 Civil Engineering Senior Design II 3 EGCE-4910 Civil Engineering Practice 1 EGCE-XXXX Level III Civil Design Electives 7 EGGN-3110 Professional Ethics 3	
Third year: BTGE-3755 Theology I 3 EGCE-3110 Geotechnical Engineering 4 EGCE-3210 Introduction to Hydraulic Engineering 3 EGCE-3510 Structural Analysis 3 EGCE-3610 Environmental Engineering 4 EGCE-3910 Civil Engineering Management 2 EGCE-XXXX Level I Civil Design Elective 3 EGCE-XXXX Level II Civil Design Electives 8 GSS-1100 Politics and American Culture 3 MATH-3110 Probability and Statistics 3 Total 36 Fourth year: BTGE-3765 Theology II 3 EGCE-4810 Civil Engineering Senior Design I 3 EGCE-4820 Civil Engineering Senior Design II 3 EGCE-4910 Civil Engineering Practice 1 EGCE-XXXX Level III Civil Design Electives 7 EGGN-3110 Professional Ethics 3 History Elective 3	
Third year: BTGE-3755 Theology I 3 EGCE-3110 Geotechnical Engineering 4 EGCE-3210 Introduction to Hydraulic Engineering 3 EGCE-3510 Structural Analysis 3 EGCE-3610 Environmental Engineering 4 EGCE-3910 Civil Engineering Management 2 EGCE-XXXX Level I Civil Engineering Elective 3 EGCE-XXXX Level II Civil Design Electives 8 GSS-1100 Politics and American Culture 3 MATH-3110 Probability and Statistics 3 Total 36 Fourth year: BTGE-3765 Theology II 3 EGCE-4810 Civil Engineering Senior Design I 3 EGCE-4820 Civil Engineering Senior Design II 3 EGCE-4910 Civil Engineering Practice 1 EGCE-XXXX Level III Civil Design Electives 7 EGGN-3110 Professional Ethics 3	
Third year: BTGE-3755 Theology I 3 EGCE-3110 Geotechnical Engineering 4 EGCE-3210 Introduction to Hydraulic Engineering 3 EGCE-3510 Structural Analysis 3 EGCE-3610 Environmental Engineering 4 EGCE-3910 Civil Engineering Management 2 EGCE-XXXX Level I Civil Engineering Elective 3 EGCE-XXXX Level II Civil Design Electives 8 GSS-1100 Politics and American Culture 3 MATH-3110 Probability and Statistics 3 Total 36 Fourth year: BTGE-3765 Theology II 3 EGCE-4810 Civil Engineering Senior Design I 3 EGCE-4820 Civil Engineering Senior Design II 3 EGCE-4910 Civil Engineering Practice 1 EGCE-XXXX Level III Civil Design Electives 7 EGGN-3110 Professional Ethics 3 History Elective 3 LIT-2XXX Literature Elective 3	
Third year: BTGE-3755 Theology I 3 EGCE-3110 Geotechnical Engineering 4 EGCE-3210 Introduction to Hydraulic Engineering 3 EGCE-3510 Structural Analysis 3 EGCE-3610 Environmental Engineering 4 EGCE-3910 Civil Engineering Management 2 EGCE-XXXX Level I Civil Design Elective 3 EGCE-XXXX Level II Civil Design Electives 8 GSS-1100 Politics and American Culture 3 MATH-3110 Probability and Statistics 3 Total 36 Fourth year: BTGE-3765 Theology II 3 EGCE-4810 Civil Engineering Senior Design I 3 EGCE-4820 Civil Engineering Senior Design II 3 EGCE-4910 Civil Engineering Practice 1 EGCE-XXXX Level III Civil Design Electives 7 EGGN-3110 Professional Ethics 3 History Elective 3	

^{*} Satisfies required Social Science elective

School of Engineering and Computer Science Computer Engineering

Computer Engineering

Course requirements for the Bachelor of Science in Computer Engineering (B.S.Cp.E.) degree are comprised of the following and may be modified by the department Chair.

Course requirements involve 70 semester nours including:
CS-1210 C++ Programming2
CS-1220 Object Oriented Design with C++
CS-2210 Data Structures Using Java
CS-3310 Operating Systems
CS-3410 Algorithms
EGCP-1010 Digital Logic Design
EGCP-2120 Microcontrollers
EGCP-3010 Advanced Digital Logic Design
EGCP-3210 Computer Architecture
EGCP-4210 Advanced Computer Architecture
EGCP-4310 Computer Networks
*EGCP-4810 Computer Engineering Senior Design I
*EGCP-4820 Computer Engineering Senior Design II
EGEE-2010 Circuits
EGEE-3110 Linear Systems
EGEE-3210 Electronics I
EGGN-1110 The Engineering Profession
EGGN-3110 Professional Ethics
EGGN-4010 Senior Seminar
EGME-1810 Engineering Graphics
EGME-2570 Statics and Dynamics
EGME-3170 Thermal Systems
**Three Technical Electives (must include a 4000-level course)

Required Cognates	27.5
² CHEM-1050 Chemistry for Engineers	3.5
³ MATH-1710 Calculus I	
MATH-1720 Calculus II	5
MATH-2520 Discrete Math and Probability Principles for	
Computer Science	3
MATH-2740 Differential Equations	3
PHYS-2110 General Physics I	4
PHYS-2120 General Physics II	4
¹ Satisfies humanities general education requirements	

²Satisfies physical science general education requirements

³Satisfies mathematics general education requirements

*Capstone Course

 $^{\star\star}\text{Technical}$ electives must be selected from CS, CY, EGCP or EGEE courses of 3000-level or higher that are not already prescribed in the program. At least one technical elective must be a 4000-level course.

Computer Engineering Major Curriculum Summary

Proficiency Requirements	0-4
General Education Requirements	
Comprehensive Computer Engineering Requirements	
Required Cognates	
Total (minimum, not including proficiency)	



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Computer Engineering

First year:	
BTGE-1725 The Bible and the Gospel	3
CHEM-1050 Chemistry for Engineers	
COM-1100 Fundamentals of Speech	
CS-1210 C++ Programming	2
CS-1220 Object Oriented Design with C++	
EGCP-1010 Digital Logic Design	3
EGGN-1110 The Engineering Profession	
EGME-1810 Engineering Graphics	
MATH 1700 Coloubs I	
MATH-1720 Calculus IIPHYS-2110 General Physics I	5
Total	
TOTAL	J.J
Second year:	
BTGE-2730 Old Testament Literature	
CS-2210 Data Structures Using Java	3
CS-3310 Operating Systems	3
EGCP-3210 Computer Architecture	
EGEE-2010 Circuits	5
EGME-2570 Statics and Dynamics	
ENG-1400 Composition	3
Computer Science	2
MATH-2740 Differential Equations	
PEF-1990 Physical Activity and Healthy Living	
PHYS-2120 General Physics II	
Total	
	-
Third year:	
BTGE-2740 New Testament Literature	3
BTGE-3755 Theology I	
CS-3410 Algorithms	
EGCP-2120 Microcontrollers	
EGCP-3010 Advanced Digital Logic Design	
EGEE-3110 Linear Systems	ა
EGGN-3110 Professional Ethics	
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to Humanities	ว
LIT-2XXX Literature Elective	3
Technical Electives	
Total	_
Fourth year:	_
BTGE-3765 Theology II	
EGCP-4210 Advanced Computer Architecture	3
EGCP-4310 Computer Networks	
EGCP-4810 Computer Engineering Senior Design I	
EGCP-4820 Computer Engineering Senior Design II	
EGME-3170 Thermal Systems	
Biology Elective	
Technical Electives	
History Elective.	
Social Science/Global Awareness Elective	
Total	

School of Engineering and Computer Science Computer Science — Bachelor of Science

Computer Science — Bachelor of Science
Course requirements for the B.S. degree in computer science
are comprised of the following and may be modified by the
department Chair.
Course requirements involve 63 semester hours including:

Computer Science Core Requirements54
CS-1210 C++ Programming
CS-1220 Object-Oriented Design Using C++3
CS-2210 Data Structures Using Java3
CS-3210 Programming Language Survey3
CS-3220 Web Applications
CS-3310 Operating Systems
CS-3410 Algorithms3
CS-3510 Compiler Theory and Practice
CS-3610 Database Organization and Design
*CS-4810,4820 Software Engineering I and II
CY-1000 Introduction to Cybersecurity
CY-3420 Cyber Defense
EGCP-1010 Digital Logic Design
EGCP-3210 Computer Architecture
EGCP-4310 Computer Networks
EGGN-4010 Senior Seminar
MATH-2520 Discrete Math and Probability Principles for
Computer Science3
Technical electives chosen from the following9
Any 3000- or 4000-level computer science course
EGCP-3010 Advanced Digital Logic Design
EGCP-4210 Advanced Computer Architecture
MATH-3500 Number Theory
MATH-3610 Linear Algebra3
MATH-3760 Numerical Analysis3
Other courses with pre-approval of department Chair
*Capstone Course
Required Cognates18
MATH-1710,1720 Calculus I and II 10
PHYS-2110 General Physics I4
*BIO-1110 Introduction to Biology4
or PHYS-2120 General Physics II4
*Fulfills general education for a biological science laboratory requirement
Optional Computer Science Tracks**9-12
Replace 9 hours of technical electives with 9–12 hours from one of the following
computer science track.
Cyber Operations Track
CY-3320 Linux Systems Programming
CY-4310 Cyber Operations
CY-4330 Software Security
Graphic Design Track

EGCP-4210 Advanced Computer Architecture	3
Video Game Engineering Track	
CS-4430 Machine Learning for Intelligent Agents	3
CS-4710 Computer Graphics	3
CS-4730 Virtual Reality Applications	3

Computer Science Major (B.S.) Curriculum Summary	
Proficiency Requirements	0–4
General Education Requirements	. 38–41.5
Computer Science Major Requirements	63–66
Required Cognates	18
Electives	
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Computer Science — B.S.

First year: BTGE-1725 The Bible and the Gospel 3 CS-1210 C++ Programming 2 CS-1220 Object Oriented Design Using C++ 3 CY-1000 Introduction to Cybersecurity 3 EGCP-1010 Digital Logic Design 3 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and Healthy Living 2 PHYS 2110 General Physics I 4 Total 33
Second year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 CS-2210 Data Structures Using Java 3 CS-3210 Programming Language Survey 3 CS-3310 Operating Systems 3 COM-1100 Fundamentals of Speech 3 CY-3420 Cyber Defense 3 EGCP-3210 Computer Architecture 3 MATH-2520 Discrete Math and Probability Principles for Computer Science 3 Required cognate elective 4 Total 31
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CS-3220 Web Applications 3 CS-3410 Algorithms 3 CS-3610 Database Organization and Design 3 CS Technical Electives 6 EGCP-4310 Computer Networks 3 GSS-1100 Politics and American Culture 3 GBIO-1000 Principles of Biology 3.5 Electives 2 Total 32.5
Fourth year: 3 CS-3510 Compiler Theory and Practice 3 CS-4810, 4820 Software Engineering I and II 7 CS Technical Electives 3 EGGN-3110 Professional Ethics 3 EGGN-4010 Senior Seminar 0 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 History Elective 3 Social Science/Global Awareness Elective 3 Electives 3.5 Total 31.5

Hardware Track

^{**}The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area.

School of Engineering and Computer Science Cyber Operations — Bachelor of Science

Cyber Operations — Bachelor of Science

Course requirements for the **B.S. degree in cyber operations** are comprised of the following and may be modified by the department Chair.

Course requirements involve 80 semester hours including:

Course requirements involve 80 semester hours including:
Cyber Operations Core Requirements57
CS-1210 C++ Programming2
CS-1220 Object-Oriented Design Using C++3
CS-2210 Data Structures Using Java3
CS-3310 Operating Systems3
CS-3410 Algorithms3
CY-1000 Introduction to Cybersecurity3
CY-2310 Cyber Forensics3
CY-3320 Linux Systems Programming3
CY-3420 Cyber Defense3
CY-4310 Cyber Operations3
CY-4330 Software Security3
*CY-4810 Secure Software Engineering I
*CY-4820 Secure Software Engineering II4
EGCP-1010 Digital Logic Design3
EGCP-2120 Microcontrollers
EGCP-3210 Computer Architecture3
EGCP-4310 Computer Networks3
EGGN-3110 Professional Ethics3
EGGN-4010 Senior Seminar0
ITM-3450 IT Security and Risk Management3
Technical electives chosen from the following6
CS-3220 Web Applications3
CS-3510 Compiler Theory and Practice
CS-3610 Database Organization and Design3
EGCP-3010 Advanced Digital Logic Design
EGCP-4210 Advanced Computer Architecture
*Capstone Courses – these courses satisfy the capstone requirement for both the

*Capstone Courses – these courses satisfy the capstone requirement for both the computer science and cyber operations majors.

Required Cognates	17
MATH-1710,1720 Calculus I and II	10
MATH-2520 Discrete Math and Probability Principles for	
Computer Science	3
PHYS-2110 General Physics I	4

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Cyber Operations — B.S.

First year: BTGE-1725 The Bible and the Gospel 3 CS-1210 C++ Programming 2 CS-1220 Object Oriented Design Using C++ 3 CY-1000 Introducation to Cybersecurity 3 EGCP-1010 Digital Logic Design 3 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and Healthy Living 2 PHYS 2110 General Physics I 4 Total 33
Second year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 CS-2210 Data Structures Using Java 3 CS-3310 Operating Systems 3 COM-1100 Fundamentals of Speech 3 CY-2310 Cyber Forensics 3 CY-3420 Cyber Defense 3 EGCP-3210 Computer Architecture 3 GSS-1100 Politics and American Culture 3 MATH-2520 Discrete Math and Probability Principles for Computer Science 3 Total 30
Third year: 3 BTGE-3755 Theology I. 3 BTGE-3765 Theology II. 3 CS-3410 Algorithms. 3 CY-3320 Linux Systems Programming. 3 CY-4330 Software Security. 3 EGCP-2120 Microcontrollers. 3 EGCP-4310 Computer Networks. 3 ITM-3450 IT Security & Risk Management. 3 Technical Electives. 6 General Electives. 3.5 Total. 33.5
Fourth year: CY-4310 Cyber Operations 3 CY-4810, 4820 Software Engineering I and II 7 EGGN-3110 Professional Ethics 3 EGGN-4010 Senior Seminar 0 GBIO-1000 Principles of Biology 3.5 LIT-2XXX Literature Elective 3 HUM-1400 Introduction to the Humanities 3 History Elective 3 Social Science/Global Awareness Elective 3 Electives 3 Total 31.5

School of Engineering and Computer Science Electrical Engineering

Electrical Engineering

Course requirements for the **Bachelor of Science in Electrical Engineering (B.S.E.E.) degree** are comprised of the following and may be modified by the department Chair.

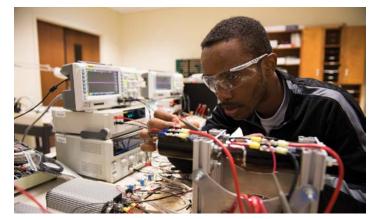
Course requirements involve 70 semester hours including:	
CS-1210 C++ Programming	.2
CS-1220 Object Oriented Design Using C++	
EGCP-1010 Digital Logic Design	.3
EGCP-2120 Microcontrollers	
EGEE-2010 Circuits	_
EGEE-2110 Engineering Analysis	
EGEE-3110 Linear Systems	
EGEE-3210 Electronics I	
EGEE-3220 Electronics II	
EGEE-3310 Electromagnetics	
EGEE-3330 Communications Theory	
EGEE-4110 Digital Signal Processing	
EGEE-4410 Feedback Control Systems	
*EGEE-4810 Electrical Engineering Senior Design I	
*EGEE-4820 Electrical Engineering Senior Design II	
EGGN-1110 The Engineering Profession	
¹ EGGN-3110 Professional Ethics	-
EGGN-4010 Senior Seminar	
EGME-1810 Engineering Graphics	
EGME-2570 Statics and Dynamics	
EGME-3170 Thermal Systems	.2
² Three Technical Electives (must include one	0
4000-level course)	.9

Required Cognates	27.5
³ CHEM-1050 Chemistry for Engineers	3.5
⁴ MATH-1710 Calculus I	5
MATH-1720 Calculus II	5
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	3
PHYS-2110 General Physics I	4
PHYS-2120 General Physics II	

¹Satisfies humanities general education requirements.

Electrical Engineering Major Curriculum Summary

0–4
41.5
70
27.5
139



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Electrical Engineering

First year: BTGE-1725 The Bible and the Gospel BTGE-2730 Old Testament Literature. CHEM-1050 Chemistry for Engineers	.3 .5 .2 .3 .1 .1 .3 .5 .5 .4
BTGE-2740 New Testament Literature	.3
COM-1100 Fundamentals of Speech	
CS-1220 Object Oriented Design Using C++	.3
EGEE-2010 Circuits	.5
EGEE-2110 Engineering Analysis	.3
EGME-2570 Statics and Dynamics	.3
GSS-1100 Politics and American Culture	
MATH-2710 Calculus III	
MATH-2740 Differential Equations	.3
PEF-1990 Physical Activity and Healthy Living	.2
PHYS-2120 General Physics II	
Total	35
Third year: EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3310 Electromagnetics EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective	.3 .5 .3 .4 .3 .3 .3 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3310 Electromagnetics EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total	.3 .5 .3 .4 .3 .3 .3 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I	.3 .5 .3 .4 .3 .3 .3 .3 .3 .3 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II	.3 .5 .3 .4 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing.	.3 .5 .3 .4 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Clectronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing EGEE-4410 Feedback Control Systems	.3 .5 .3 .4 .3 .3 .3 .3 .3 .3 .3 .4
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3310 Electromagnetics EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing EGEE-4410 Feedback Control Systems EGEE-4810 Electrical Engineering Senior Design I EGEE-4820 Electrical Engineering Senior Design II EGEE-4820 Electrical Engineering Senior Design II	.3 .3 .5 .3 .4 .3 .3 .3 .3 .3 .4 .4 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3310 Electromagnetics EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing EGEE-4410 Feedback Control Systems EGEE-4810 Electrical Engineering Senior Design I EGEE-4820 Electrical Engineering Senior Design II EGEE-4820 Electrical Engineering Senior Design II	.3 .3 .5 .3 .4 .3 .3 .3 .3 .3 .4 .4 .3
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing EGEE-4410 Feedback Control Systems EGEE-4810 Electrical Engineering Senior Design I EGEE-4820 Electrical Engineering Senior Design II EGGN-4010 Senior Seminar EGME-3170 Thermal Systems	33.53.43.33.33.33.44.30.2
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing. EGEE-4410 Feedback Control Systems EGEE-4820 Electrical Engineering Senior Design I EGEG-4820 Electrical Engineering Senior Design II EGME-3170 Thermal Systems Biology Elective 3	33.53.433.333.334.430.25
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing. EGEE-4410 Feedback Control Systems EGEE-4820 Electrical Engineering Senior Design I EGGN-4010 Senior Seminar EGME-3170 Thermal Systems Biology Elective 3 Technical Electives	33.53.433.333.336 33.344.30.25.6
EGCP-2120 Microcontrollers EGEE-3110 Linear Systems EGEE-3210 Electronics I EGEE-3220 Electronics II EGEE-3330 Communications Theory EGGN-3110 Professional Ethics HUM-1400 Introduction to Humanities Technical Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BTGE-3755 Theology I BTGE-3765 Theology II EGEE-4110 Digital Signal Processing. EGEE-4410 Feedback Control Systems EGEE-4820 Electrical Engineering Senior Design I EGEG-4820 Electrical Engineering Senior Design II EGME-3170 Thermal Systems Biology Elective 3	33534333336 33344302563

²Technical electives must have EGXX designation at 3000- or higher level.

³Satisfies physical science general education requirements.

⁴Satisfies mathematics general education requirements.

^{*}Capstone Course

School of Engineering and Computer Science Mechanical Engineering

Mechanical Engineering

Course requirements for the Bachelor of Science in Mechanical Engineering (B.S.M.E.) degree are comprised of the following and may be modified by the department Chair.

Course requirements involve 70 semester hours including:	
EGCP-1010 Digital Logic Design	3
EGEE-2050 Circuits and Instrumentation	
EGEE-3530 Electrical Machines	3
EGGN-1110 The Engineering Profession	1
¹ EGGN-3110 Professional Ethics	3
EGGN-4010 Senior Seminar	
EGME-1810 Engineering Graphics	1
EGME-2050 Computational Methods	
EGME-2410 Properties of Engineering Materials	
EGME 2430 Contemporary Manufacturing Processes	3
EGME-2530 Statics and Mechanics of Materials	5
EGME-2630 Dynamics	3
EGME-3010 Mechanical Engineering Lab I	2
EGME-3020 Mechanical Engineering Lab II	2
EGME-3110 Thermodynamics	5
EGME-3150 Heat Transfer	3
EGME-3210 Fluid Mechanics	3
EGME-3610 Kinematics and Design of Machines	3
EGME-3850 Mechanical Design	3
EGME-4660 Automatic Controls	3
*EGME-4810 Mechanical Engineering Senior Design I	3
*EGME-4820 Mechanical Engineering Senior Design II	3
⁴ Engineering Electives (must include one 4000-level course)	6

Required Cognates	27.5
² CHEM-1050 Chemistry for Engineers	3.5
³ MATH-1710 Calculus I	5
MATH-1720 Calculus II	5
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	3
PHYS-2110 General Physics I	4
PHYS-2120 General Physics II	
¹ Satisfies humanities general education requirements	

Mechanical Engineering Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	41.5
Comprehensive Mechanical Engineering Requirements	70
Required Cognates	27.5
Total (minimum, not including proficiency)	



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Mechanical Engineering

First year:
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature3
CHEM-1050 Chemistry for Engineers
EGCP-1010 Digital Logic Design
EGGN-1110 The Engineering Profession1
EGME-1810 Engineering Graphics
ENG-1400 Composition
MATH 1770 Calculus I
MATH-1720 Calculus II
PEF-1990 Physical Activity and Healthy Living2
PHYS-2110 General Physics I4
Total
Canadana
Second year:
BTGE-2740 New Testament Literature
COM-1100 Fundamentals of Speech3
EGEE-2050 Circuits and Instrumentation4
EGME-2050 Computational Methods4
EGME-2530 Statics and Mechanics of Materials5
EGME-2630 Dynamics3
GSS-1100 Politics and American Culture
MATH-2710 Calculus III
MATH-2740 Differential Equations
PHYS-2120 General Physics II
Total
10tal
Third year:
EGGN-3110 Professional Ethics
EGME-2410 Properties of Engineering Materials
COME 2010 Machanical Engineering Habit
EGME-3010 Mechanical Engineering Lab I
EGME-3020 Mechanical Engineering Lab II
EGME-3110 Thermodynamics5
EGME-3150 Heat Transfer3
EGME-3210 Fluid Mechanics3
EGME-3610 Kinematics and Design of Machines3
EGME-3850 Mechanical Design3
HUM-1400 Introduction to Humanities3
History/Global Awareness Elective
Total
· · · · · · · · · · · · · · · · · · ·
Fourth year:
BTGE-3755 Theology I
BTGE-3765 Theology II
**ECON 2110 Essentials of Economics
EGEE-3530 Electrical Machines
EGGN-4010 Senior Seminar0
EGME-2430 Contemporary Manufacturing Processes
EGME-4660 Automatic Controls
EGME-4810 Mechanical Engineering Senior Design I
EGME-4820 Mechanical Engineering Senior Design II3
Biology Elective
Engineering Electives6
LIT-2XXX Literature Elective
Total

^{**}ECON-2110 Essentials of Economics required Social Science elective

²Satisfies physical science general education requirements.

³Satisfies mathematics general education requirements.

⁴Engineering electives must have EGXX designation at 3000 or higher level,

^{**}ECON-2110 Essentials of Economics required Social Science elective

^{*}Capstone Course

School of Engineering and Computer Science Minors

Minors

Biomedical Engineering Minor

The **biomedical engineering minor** will help prepare computer, electrical, and mechanical engineering students for careers in the biomedical engineering field, graduate study in biomedical engineering, or medical school. While not required for the emphasis in biomedical engineering, students intending to pursue medical school should have two semesters of general chemistry and organic chemistry, as well as a semester of zoology, cell biology, and junior level biochemistry. Two of these courses* could be counted as electives in the biomedical engineering minor, and only 6–7 additional semester hours are required for the minor beyond the engineering major.

Course requirements for the biomedical engineering minor involve 15.5–18 semester hours including:

involve 15.5–16 semester nours including.	
BIO/GBIO-XXXX Biology Elective	3.5-4
GBIO-2010 Human Anatomy and Physiology I	4
EGGN-3610 Biomedical Engineering Systems	3
Choose one elective from the following	2–4
EGGN-3710 Biomedical Engineering Research	2
*Health Science elective	3–4
3000/4000-level Engineering elective	2–3
Choose one elective from the following	
EGEE-4610 Medical Imaging	3
EGME-4560 Biomechanics and Biomaterials	

In addition, mechanical engineering students selecting the biomedical engineering minor may replace EGEE-3530 Electrical Machines in their major with a 3 credit-hour engineering technical elective, approved by the Dean or Assistant Dean.

Computer Science Minor

The **computer science minor** allows students to take a focused set of courses which will enable them to effectively employ programming within their own discipline. Proficiency in computer programming is a skill which can be a strong asset in virtually every discipline.

Course requirements for the computer science minor involve 27 semester hours including:

semester hours including:	
CS-1210 C++ Programming	2
CS-1220 Object-Oriented Design Using C++	3
CS-2210 Data Structures Using JAVA	3
CS-3410 Algorithms	3
EGCP-1010 Digital Logic Design	
MATH-1710, 1720 Calculus I and II	10
Electives chosen from the following	3
EGEE-3370 Probability and Random Processes for	
Engineers	3
MATH-2520 Discrete Math and Probability Principles	
for Computer Science	3

Special Programs

Cooperative Education Program

The cooperative education program option has been a traditional program option for engineering education for the last 100 years. The co-op program offers students who want to work an opportunity to gain industrial experience as part of their formal education. Co-op is the established program that the industry has developed with academic institutions to provide supervised work experiences for students. Engineering and computer science students who select this option will require an extra year to obtain their B.S. degree; they will receive a certificate stating that they have satisfactorily completed the co-op program option.

Course requirements for the cooperative education program include:

EGGN-3910 Co-Op I	0
(or EGGN-3911 Co-Op IA	0)
(and EGGN- 3912 Co-Op IB	

EGGN-3920 Co-Op II	0
(or EGGN-3921 Co-Op IIA	. 0)
(and EGGN- 3922 Co-Op IIB	
EGGN-3930 Co-Op III	Ó
(or EGGN-3931 Co-Op IIIA	. 0)
(and EGGN- 3932 Co-Op IIIB	. O)

Engineering Honors Program

The **engineering honors program** is designed to challenge exceptional students and encourage them to reach their highest possible potential. Because the program is integrated with the University's honors program, students who wish to participate must first be admitted into the honors program; the details are listed in the Interdisciplinary Studies section (page 151). Admission can occur in either the freshman or sophomore year. Admission to the engineering honors program occurs after the student completes the sophomore year. A cumulative GPA of 3.5 or higher is required for participation.

Engineering coursework involves taking the honors version of three courses and one additional engineering elective course. These engineering honors courses are the regularly scheduled courses and are taken with other students, but they have enrichment opportunities and exposure to advanced topics through special assignments and extra sessions with the professor.

Honors version of the following courses:

Poquiroments for civil anginopring majors include:

nequirements for civil engineering majors include.	
EGCE-3610 Environmental Engineering	4
Level II CE Design Elective	4
EGCE-3220 Design of Water Distribution Systems	
or EGCE-3520 Design of Steel Structures	
Level III CE Design Elective	4
EGCE-4510 Reinforced Concrete Design	
or EGCE-4610 Design of Water Treatment Systems	

EGEE-3210 Electronics I3EGEE-3330 Communications Theory4EGEE-4410 Feedback Controls4

Students who earn a "B" or higher in HON-1010 and 1020, earn a "B" or higher in all engineering honors courses, and graduate with a cumulative GPA of 3.5 or higher will earn the "engineering honors graduate" designation.



Department of English, Literature, and Modern Languages

Mission Statement	4
Personal Requirements 124	4
Department Requirements 124	4
Programs of Study124	4
Foreign Language 124	4
Writing Center124	4
Cocurricular Opportunities	5
Technical Resources	5
Career Opportunities	5
Faculty120	ô
Majors	
» English12	7
» Spanish132	2
» Linguistics130	C
» Language Arts Education — Integrated. 128	8
» Spanish Education — Multi-Age 133	3
Pathways to a Graduate Degree	
» Graduate Program Pathway Option for	
Teacher Education Licensure Program	
Language Arts Education — Integrated. 128	3
» Graduate Program Pathway Option for	
Linguistics 19	4

Minors » Asian Studies Minor 134 » Editing and Publishing Minor...... 134 » French Minor 134 » Latin American Studies Minor...... 134 » Middle Eastern Studies Minor...... 135 » Spanish Minor 135 » Spanish for Professionals Minor...... 135 » Spanish for Healthcare Personnel » Teaching English to Speakers of Other Languages (TESOL) Minor 136 » TESOL Endorsement 136 » Western European Studies Minor 136 Special Program » Certificate in Medical Spanish Program . 136 Department of English, Literature, and Modern

Languages Course Descriptions........... 272

Department of English, Literature, and Modern Languages Mission Statement

Mission Statement

The Cedarville University Department of English, Literature, and Modern Languages will:

- Instruct students to write well with wisdom, beauty, and integrity.
- Teach students to read literature with Christlike empathy and biblical discernment.
- Instruct students in the historical, social, and intellectual background of a variety of texts and cultures.
- Teach students to analyze language structure, change, and use in society.
- Prepare students for graduate and professional work in their respective fields to be salt and light in a global community.

Personal Requirements

Students who choose English as a major are expected to acquire a high level of competency in the discipline of the English language. Those who wish to study foreign language will benefit from taking foreign language in high school. No previous foreign language experience is required to take elementary-level foreign language.

Department Requirements

To graduate with a major from the Department of English, Literature, and Modern Languages, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

Programs of Study

The Department of English, Literature, and Modern Languages offers the following programs:

Majors

- English
- Language Arts Education Integrated
- Linguistics
- Spanish Education Multi-Age
- Spanish

Minors

- · Asian Studies
- Creative Writing
- Editing and Publishing
- French
- German
- Latin American Studies
- Linguistics
- Literature
- Middle Eastern Studies
- Spanish
- Spanish for Healthcare Personnel
- Spanish for Professionals
- · Teaching English to Speakers of Other Languages (TESOL)
- Western European Studies

Special Program

Certificate in Medical Spanish Program

Foreign Language

As students become acquainted with the language, lifestyles, and belief systems of another culture, they can develop greater insight into that culture. Knowledge of a second language can become a valuable support skill for careers in business, Christian ministry, education, government, and social services. The department provides a variety of language courses that allow students to develop basic communication skills and cultural awareness.

Guidelines for satisfying the general education requirement for foreign language are found on page 25. Students with previous language study may be eligible for test-out credit for first- and/or second-year language courses and should contact the department or the Office of the Registrar for details. Language students are also encouraged to consider the study abroad options.

Writing Center

The Cedarville University Writing Center exists to help writers at all levels of proficiency, from all academic disciplines develop effective writing skills. This development takes place primarily through one-on-one peer consultations that are adapted to individual writers' needs. Such consultations will be competent and timely, will occur in a comfortable, nonthreatening atmosphere, and will address all writing projects in any stage of the writing process, from brainstorming to revision. These consultations focus primarily on the writing at hand, but the long-term goal for every session is to help each tutee become a better writer overall. Writing Center tutors do not correct students' papers but help writers recognize and correct their unique patterns of error. Additionally, tutors do not assess or grade writing; instead, the Center helps writers develop insight into each rhetorical situation. Ultimately, the Center's goal is to create better writers by blending service and collaboration — a blend that at its core is wholly Christian. The Writing Center functions as a training ground for students who tutor there, assist in administration, or aid faculty with research projects related to writing centers.

Objectives

In order to help writers improve their writing, we aim to help them:

- · Identify global concerns before sentence-level concerns
- Discover their strengths and weaknesses as writers
- Understand their assignments
- · Increase their confidence in writing
- Develop the initiative to pursue future discourse about writing For more information, the Writing Center website is **cedarville**.

edu/writingcenter.

Department of English, Literature, and Modern Languages Cocurricular Opportunities

Cocurricular Opportunities

Alpha Sigma Lambda (ASL)

Encourages the use of American sign language. Members meet regularly to learn and practice ASL and to learn about deaf culture. The club participates in silent dinners, occasionally signs in chapel, and attends deaf worship services.

Arabic Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

Chinese Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

French Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

German Club

Encourages the use of the German language and the understanding of germanic culture. Members meet regularly to practice the language, to discuss German culture and to discuss current events involving German-speaking countries. The club also takes trips each semester that include good German food.

Linquistics Club

Students meet regularly for activities that enhance the practical usage of linguistics. Students who have participated in linguistics-related internships share their experiences. The club also hosts a site where members discuss linguistics issues and share linguistic jokes, articles and interesting information about languages.

Miracle

Students with writing, photography, editorial, and layout and design talent have the opportunity to compile and edit the University's yearbook.

Spanish Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

The Cedarville Review

Students submit and publish fiction, photography, creative nonfiction, and poetry, as well as select, prepare, and format manuscripts for publication in this annual literary journal.

Sigma Tau Delta

The International English Honor Society seeks to confer distinction for high achievement in English, language, and literature studies, promote interest in literature and the English language, and foster the discipline of English in all its aspects, including creative and critical writing.

Study Abroad Opportunities

Students are encouraged to take advantage of semester or academic year programs at one of Cedarville's partner/ satellite programs or participate in one of Cedarville's special summer programs. Participants remain enrolled at Cedarville, continue to receive financial aid, and take classes for Cedarville credit. Semester and yearlong programs are primarily open for sophomores to seniors. The Cedarville summer study programs are open to all students. Advanced planning is highly recommended. For additional information, contact Study Abroad at cedarville.edu/StudyAbroad. Preapproval from Study Abroad must be received before students can participate in any program. Two of the most popular programs for English, Literature, and Modern Languages majors/minors are Cedarville University in Spain and our partner program in Oxford. Cedarville University in Spain cedarville.edu/SpainSemester.

In cooperation with the Institute for Spanish Studies (ISS), Cedarville students have the opportunity to study in a customized Spanish language and culture immersion program during either the fall or spring semesters or one or two summer sessions in Valencia, Spain. In addition to taking courses with ISS, students will take courses with Spanish faculty Dr. Andrew Wiseman, who serves as the onsite resident director.

Cedarville Summer Abroad Programs

Study Abroad is continually working with professors who desire to teach a specialized course abroad. Each summer there are opportunities for students to take general education and upper-level courses abroad with Cedarville professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer, but usually are in Europe and Asia.

Technical Resources

Students have industry-standard software available to strengthen their professional skills, including:

- Language tutorials
- Publication design
- · Reading and writing skill builders

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Careers pursued by graduates of this department include:

- · Bible translation
- Creative writing
- International business
- Journalism

- Law
- Missions
- Publishing
- Teaching

Department of English, Literature, and Modern Languages Faculty

Faculty

Annis Shaver, Interim Chair. Professor of German and Applied Linguistics. Education: B.A., B.S., Tennessee Technological University, 1978; M.A., Louisiana University, 1980; Ph.D., University of Miami, 2004. At Cedarville since 2005. Holly Blakely, Assistant Professor of English, Writing Center Director. Education: B.A., Wright State University, 1999; M.A., Wright State University, 2001. At Cedarville since 2018.

Scott Calhoun, Professor of English. *Education:* B.A., Cedarville University, 1995; M.A., Bowling Green State University, 1997; Ph.D., Bowling Green State University, 1999. At Cedarville since 1999.

Daniel Clark, Associate Professor of English. *Education:* B.A., Tennessee Temple University, 1988; M.A., University of Tennessee at Chattanooga, 1993. At Cedarville since 1999.

Donald Deardorff II, Professor of English, Writing Across the Curriculum Coordinator. *Education:* B.A., Gettysburg College, 1989; M.A., University of Maryland, 1990; Ph.D., University of Rhode Island, 1995. At Cedarville since 1996.

Ginger Gilhooly, Instructor of English, Writing Center Assistant Director. *Education:* B.A., Texas A&M University, 2008; M.A., Bowling Green State University, 2020. At Cedarville since 2020. **Louise Grandouiller**, Assistant Professor of French and Linguistics. *Education:* B.A., Indiana University, 1975; M.A., University of Texas at Arlington, 1980. At Cedarville since 2009. **Kevin Heath**, Professor of English. *Education:* B.A., Truman State University, 1986; M.A., Michigan State University, 1988; graduate study, Grand Rapids Baptist Seminary, 1989; Ph.D., University of Cincinnati, 1999. At Cedarville since 1990.

Barbara Loach, Senior Professor of Spanish. *Education:* B.A., Cedarville University, 1977; M.A., Bowling Green University, 1978; M.A., Wright State University, 1995; Ph.D., The Ohio State University, 1990. At Cedarville since 1978.

Alicia McCartney, Assistant Professor of English. *Education:* B.A., Patrick Henry College, 2014; Ph.D., Baylor University, 2019. At Cedarville since 2020.

Cynthia Messer, Associate Professor of English, Yearbook Advisor. *Education:* B.A., Cedarville University, 1994; M.A., Wright State University, 1998. At Cedarville since 1998.

Merideth Pitts, Assistant Professor of Linguistics. *Education:* B.A, Bob Jones University, 2002; M.A., Bob Jones University, 2004; M.A., Georgia State University, 2012; Ph.D., Georgia State University, 2016. At Cedarville since 2017.

Cristi Vallejos, Assistant Professor of Spanish. *Education:* B.A., Illinois State University, 2013; M.S., Georgetown University, 2015; Ph.D., Georgetown University, 2020. At Cedarville since 2019. Andrew S. Wiseman, Professor of Spanish; Assistant Director of CU Study Abroad. *Education:* B.A., University of Massachusetts at Amherst, 1992; Undergraduate Studies, Universidad de Sevilla, Spain, 1990–1991; Undergraduate Studies, Universidad Internacional SEK, Santiago, Chile, 1992–1993; M.A., Florida State University, 1995; Ph.D., Universidad de San Jose, San Jose, Costa Rica, 2002. At Cedarville since 2000.

Michelle Wood, Associate Professor of English. *Education:* B.A., Cedarville University, 1992; M.A., Wright State University, 1997; Ph.D., Indiana University of Pennsylvania, 2013. At Cedarville since 1995.

Emeriti

Pat Landers Dixon, Associate Professor Emerita of English. *Education:* B.A., Tennessee Temple University, 1963; M.Ed., University of Tennessee, 1970; TESL, Wright State University, 1985. At Cedarville since 1971.

Edward Greenwood, Professor Emeritus of English. *Education:* Baptist Bible Institute, 1946–47; B.A., Bryan College, 1951; M.Div., Conservative Baptist Theological Seminary, 1955; graduate study, Marshall University, 1958; M.A., University of Dayton, 1966; D.A., Middle Tennessee State University, 1976. At Cedarville from 1963 to 1989.



Department of English, Literature, and Modern Languages English

English

Course requirements for the English major involve 52–55 semester hours including:	
English Core	37
CWRT-2220 Introduction to Creative Writing	3
ENG-2020 Career Development for the English Major	2
ENG-2230 Advanced Composition	3
ENG-3180 Visual Rhetoric	2
LIT-1990 First-Year Seminar	
LIT-2090 Literary Analysis	
LIT-2390 Survey of American Literature to 1900	
LIT-2430 Survey of British Literature to 1800	3
LIT-2440 Survey of British Literature from 1800 to Present	3
LIT-3350 Shakespeare	3
LIT-3440 Multiethnic American Literature	3
(or LIT-3100 Contemporary Young Adult Literature 3	3)
*LIT-4220 English Seminar	3
LIT-4310 Literary Theory	
Concentration from one of the following:	
Creative Writing	15
CWRT-3040 Poetry	3
CWRT-3050 Creative Nonfiction	
CWRT/LIT-3000 or 4000 Electives beyond core	9
Cross-disciplinary Studies	15
Approved 3000 or 4000-level courses from one	
other discipline (all prerequisites must be completed)	
Literary Studies	
LIT-3090 Literary Research and Recovery	
LIT-3400 Contemporary Studies in World Literature	
LIT/FILM-3000 or 4000 Electives beyond core	
Rhetoric and Composition	
ENG-3060 The English Language	
ENG-3070 English Grammar	3
ENG/FILM-3000 or 4000 Electives beyond core	9
Pathway to M.B.A.	18
ACCT-2110 Principles of Accounting I	
ACCT-2120 Principles of Accounting II	3
**BUS-2150 Statistics for Business	
(or PYCH-2610 Statistics	
ECON-2110 Essentials of Economics	3
MGMT-6710 Organizational Design and Behavior	
M.B.A. Core or elective	3

*Capstone Course

English Major Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	48–56
English Major Requirements	52–55
Electives	17–28
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in English

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GBIO-1000 Principles of Biology	3.5
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
LIT-1990 First-Year Seminar	3
PEF-1990 Physical Activity and Healthy Living	
History Elective	
Quantitative Elective	
Social Science/Global Awareness Elective	
Total	. 32.5
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	_
CWRT-2220 Introduction to Creative Writing	_
ENG-2020 Career Development for the English Major	
ENG-2230 Advanced Composition	
LIT-2090 Literary Analysis	
LIT-2390 Survey of American Literature to 1900	3
LIT-2430 Survey of British Literature to 1800	
LIT-2440 Survey of British Literature from 1800 to Present	
Physical Science Elective	
Concentration Requirements	
Total	
Third year:	
BTGE-3755 Theology I	
BTGE-3765 Theology II	3
ENG-3180 Visual Rhetoric	
LIT-3350 Shakespeare	
LIT-3440 Multiethnic American Literature	3
(or LIT-3100 Contemporary Young Adult Literature	
LIT-4310 Literary Theory	
Humanities Elective	
Electives	
Total	32
Fourth year:	
LIT-4220 English Seminar	3
Concentration Requirements	12-15
Electives	
Total	21

^{**}GMTH-1020 College Algebra is a prerequisite for BUS-2150.

Suggested Three-Year Curriculum for a **Major in English**

Fall Year 1: BTGE-1725 The Bible and the Gospel	3
ENG-1400 Composition 3 History Elective 3 Electives 3 Total 15	3
Spring Year 1 BTGE-2730 Old Testament Literature	3 2 6
Summer Year 1 BTGE-2740 New Testament Literature	3 5 3
Fall Year 2: LIT-2090 Literary Analysis 3 LIT-2390 Survey of American Literature to 1900 3 LIT-2430 Survey of British Literature to 1800 3 Concentration Requirements 6 Electives 2 Total 1	3
Spring Year 2. BTGE-3755 Theology I	3 2 6
Summer Year 2. BTGE-3765 Theology II	3 5 3
Fall Year 3. ENG-3180 Visual Rhetoric	3 () () () () () () () () () () () () ()
Spring Year 3: LIT-4220 English Seminar	3 6 3

Licensure Program Language Arts Education — Integrated

The Bachelor of Arts in English program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.

Teacher Education Licensure Program Language Arts Education — Integrated

The integrated language arts major prepares students to teach language arts in public and Christian schools in grades seven-12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog (page 103).

Course requirements involve 58 hours in integrated language arts

Course requirements involve 56 hours in integrated language arts
and 38 hours in professional education requirements.
Language Arts Education Core58
CWRT-2220 Introduction to Creative Writing3
EDUC-4000 Reading and Writing in Disciplines: AYA and
Multi-Age3
ENG-2070 Fundamentals of English Grammar3
ENG-2230 Advanced Composition3
ENG-3060 The English Language3
ENG-3070 English Grammar3
ENG-3180 Visual Rhetoric2
ENG-3200 Practicum in Writing Instruction2
LIT-1990 First-Year Seminar
LIT-2090 Literary Analysis3
LIT-2390 Survey of American Literature to 19003
LIT-2430 Survey of British Literature to 18003
LIT-2440 Survey of British Literature from 1800 to Present 3
LIT-3100 Contemporary Young Adult Literature3
LIT-3350 Shakespeare3
LIT-3400 Contemporary Studies in World Literature
LIT-3440 Multiethnic American Literature3
LIT-4100 Studies in Integrated Language Arts3
3XXX or 4XXX LIT, ENG or LING Electives6
Professional Education Requirements38
EDSE-3000 Principles of Teaching AYA Learners 4
EDSE-4450 Adolescent/Young Adult Field Experience 2
*EDSE-4900 Student Teaching and Seminar: AYA 12
EDSP-2100 Exceptionalities and Behavior2
EDSP-4250 Communication, Collaboration, and Inclusion 2
EDUC-1000 The Education Profession2
EDUC-1050 Preliminary Student Involvement 0
EDUC-2050 Teaching Diverse Learners2
EDUC-2100 e-Learning for Educators3
EDUC-2300 Assessment and Differentiation2
EDUC-2500 Educational Psychology3
EDUC-3100 Philosophical Foundations of Education 3
EDUC 3200 Faith and Learning Alignment 1

Integrated Language Arts Major Curriculum Summary

Proficiency Requirements.....0-4 Other General Education Requirements......45–53 Language Arts Integrated Major Requirements......58 Education Requirements38 Total (minimum, not including proficiency)141

*Capstone Course

$Department of English, Literature, and Modern Languages {\tt LanguageArtsEducation} - {\tt Integrated} \\$

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Language Arts Education — Integrated

First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 EDUC-1000 The Education Profession 2 ENG-1400 Composition 3 ENG-2070 Fundamentals of English Grammar 3 GBIO-1000 Principles of Biology 3.5 GMTH-1010 Introduction to Mathematics 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 LIT-1990 First-Year Seminar 3 PEF-1990 Physical Activity and Healthy Living 2 Social Science Elective/Global Awareness 3 Total 34.5
Second year: 3 BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 EDSP-2100 Exceptionalities and Behavior 2 EDUC-1050 Preliminary Student Involvement 0 EDUC-2050 Teaching Diverse Learners 2 EDUC-2100 e-Learning for Educators 3 EDUC-2300 Assessment and Differentiation 2 EDUC-2500 Education Psychology 3 ENG-3070 English Grammar 3 ENG-3180 Visual Rhetoric 2 LIT-2090 Literary Analysis 3 LIT-2390 Survey of American Literature to 1900 3 LIT-2430 Survey of British Literature to 1800 3 LIT-3400 Contemporary Studies in World Literature 3 Total 35
Third year: BTGE-3755 Theology I 3 CWRT-2220 Introduction to Creative Writing 3 EDSE-3000 Principles of Teaching AYA Learners 4 EDUC-3200 Faith and Learning Alignment 1 ENG-2230 Advanced Composition 3 ENG-3060 The English Language 3 LIT-2440 Survey of British Literature from 1800 to Present 3 LIT-3100 Contemporary Young Adult Literature 3 LIT-3350 Shakespeare 3 LIT-3440 Multiethnic American Literature 3 LIT-4100 Studies in Integrated Language Arts 3 History Elective 3 Total 35
Fourth year: BTGE-3765 Theology II



Department of English, Literature, and Modern Languages Linguistics

Linguistics

The major in **linguistics** combines study of a core of courses in the field of linguistics, four semesters of modern language, and courses in concentration areas preparatory for careers and/or graduate study in fields related to linguistics.

Course requirements involve 42 semester hours including:	
Linguistics requirements	28
ENG-3060 The English Language	
FREN/GER/SPAN-2XXX Intermediate Foreign Language	
LING-2070 Introduction to Linguistics	2
LING-3080 Linguistics for Language Learning	3
LING-3082 Phonetics	
LING-3090 Sociolinguistics	3
LING-3100 Principles of Language Acquisition	
LING-4210 Senior Research in Linguistics I	
LING-4220 Senior Research in Linguistics II	
PYCH-1010 Writing in APA	
*Concentration requirements	

* Students select one concentration according to interests (minimum of 14 credit hours). Students need to complete any prerequisites listed for the courses included in this list but that are not listed for the linguistics major. Also, a minimum of 21 credit hours for the major must be from 3000/4000-level courses.

Biblical Languages and Philosophy (minimum of 14 credit hours selected from the following courses)

BTBL-2510 Elementary Greek I	. 4
BTBL-2520 Elementary Greek II	. 4
BTBL-3510 Intermediate Greek I	. 3
BTBL-3520 Intermediate Greek II	. 3
BTPA-2200 Introduction to Philosophy	. 3
BTPA-2240 Logic	. 3
BTPA-2260 World Religions	
BTPA-3250 Philosophy of Religion	

Computer Science (minimum of 14 credit hours selected from the following courses)

CS-1210 C++ Programming	2
CS-1220 Object-Oriented Design Using C++	
CS-2210 Data Structures Using Java	
CS-3410 Algorithms	3
GMTH-1030 Precalculus (prerequisite for MATH-1710)	
MATH-1710 Calculus I (prerequisite for MATH-2520)	5
MATH-2210 Logic and Methods of Proof (prerequisite	
for MATH-3560)	3
MATH 2520 Discrete Math and Probability Principles	
for Computer Science	3
MATH-3560 Discrete Math: Combinatorics	3

Cultural Studies (minimum of 14 credit hours selected from the following courses)

ANTH-1800 Cultural Anthropology	3
COM-2050 Communication Theory	
COM-2140 Intercultural Communication	
COM-2300 Voices of Diversity	3
COM-3150 Gender, Politics and Communication	3
HLMU-3400 Global Music	3

Education and Psychology (minimum of 14 credit hours selected from the following courses)

EDSP-2400 Language Development and Communication	
Disorders	2
EDUC-1000 The Education Profession	2
EDUC-2500 Educational Psychology	3
PYCH-1600 General Psychology	3
PYCH-1800 Cross-cultural Psychology	
PYCH-2610 Statistics	3
PYCH-2650 Learning and Memory	3
PYCH-3760 Cognitive Neuroscience	3

English and Writing (minimum of 14 credit hours selected from the following courses)

CWRT-2220 Introduction to Creative Writing	3
ENG-2070 Fundamentals of English Grammar	3
ENG-2230 Advanced Composition	
ENG-3010 Style and Mechanics for Writers	
ENG-3070 English Grammar	
ENG-3180 Visual Rhetoric	2
ENG-3550 Writing Center Theory and Practice	2
ENG-3070 English GrammarENG-3180 Visual Rhetoric	3 2

Global Engagement (minimum of 14 credit hours selected from the following courses)

ANTH-1800 Cultural Anthropology	3
BTAT-3450 Contemporary World Missions	3
BTAT-3470 Cross-cultural Ministry	3
BTHT-4300 Global Theology	3
BTPA-2260 World Religions	3
One course selected from the following:	
HIST-3200 History and Politics of Latin America	3
or HIST-3210 History and Politics of East Asia	3
or HIST-3220 History and Politics of the Middle East	3
or HIST-3230 History and Politics of Western Europe	3
INTL-2100 Global Issues	3

Information Technology Management

ITM-1500 Information Technology for Business	2
ITM-1900 Fundamentals of IT Management	3
ITM-2100 Database Management	
ITM-2300 Introduction to Programming	
ITM-3400 Data Communication and Networking	

Mathematics (minimum of 14 credit hours selected from the following courses)

GMTH-1020 College Algebra	3
GMTH-1030 Precalculus	3
MATH-1710 Calculus I	5
MATH-1720 Calculus II	5
MATH-2520 Discrete Math and Probability	
Principles for Computer Science	3
MATH-2800 LaTeX for Technical Documents	1
MATH-3110 Probability and Statistics	3

Modern Languages

- 8 credit hours of a second modern language at the elementary level other than the one taken for the linguistics core requirement.
- 6 credit hours of one modern language at the 3000/4000 level. May be the same language used to meet the linguistics core requirement.

Department of English, Literature, and Modern Languages Linguistics

Pre-Speech Therapy (minimum of 14 credit hours selected
from the following courses)
ANTH-1800 Cultural Anthropology
BIO-1110 Introduction to Biology
CHEM-1000 Principles of Chemistry
(or CHEM-1110 General Chemistry4)
EDSP-2400 Language Development and Communication
Disorders2
GBIO-2010 Human Anatomy and Physiology I4
GBIO-2015 Human Anatomy and Physiology II4
GSCI-1020 Principles of Physical Science
PHYS-1010 College Physics4
PYCH-1600 General Psychology3
PYCH-1800 Crosscultural Psychology3
PYCH-2600 Human Development: Lifespan3
PYCH-2610 Statistics3
PYCH-3760 Cognitive Neuroscience
SOC-1300 Introduction to Sociology
THTR-1230 Voice for the Performer
TESOL COM-2140 Intercultural Communication
Linguistics Major Curriculum Summary Proficiency Requirements



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Linguistics

First Year: BTGE-1725 The Bible and the Gospel
Second Year: BTGE-2730 Old Testament Literature
Third Year: BTGE-3755 Theology I 3 ENG-3060 The English Language 3 GSS-1100 Politics and American Culture 3 LING-3082 Phonetics 3 LING-3100 Principles of Language Acquisition 3 Concentration Electives 5 History Elective 3 Social Science Elective 3 Electives 7 Total 33
Fourth Year: BTGE-3765 Theology II 3 LING-4210 Senior Research in Linguistics I 2 LING-4220 Senior Research in Linguistics II 1 Electives 26 Total 32

Graduate Program Pathway Option for Linguistics

The Bachelor of Arts in linguistics program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of English, Literature, and Modern Languages Spanish

Spanish

The **Spanish major** enables students to develop skills in reading, writing, speaking, and comprehending spoken Spanish to gain cultural understanding that will enable them to interact appropriately in a variety of social contexts. Studying the language, history, and literature of the Hispanic peoples provides students with opportunities to practice their language skills and gain appreciation for the contributions and values of the Hispanic culture. Students are encouraged to enhance their program by participating in an approved cross-cultural experience such as a study abroad program or missions outreach.

Spanish Major Curriculum Summary

Proficiency Requirements	0-4
Other General Education Requirements	
Spanish Major Requirements	
Electives	46
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Spanish

wajoi ili Spanisii	
First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GBIO-1000 Principles of Biology 3.5 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and Healthy Living 2 SPAN-1710 Elementary Spanish I* 4 SPAN-1720 Elementary Spanish II* 4 History Elective 3 Elective 3 Total 31.5	
Second year: BTGE-2730 Old Testament Literature 3 BTGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 SPAN-2710 Intermediate Spanish I 4 SPAN-2720 Intermediate Spanish II 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Quantitative Elective 3 Electives 6 Total 31.5	
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 SPAN-3610 Spanish Composition 3 SPAN-3620 Spanish Conversation 3 SPAN-3640 Introduction to Hispanic Literature 3 Social Science Elective 3 Electives 16 Total 34	
Fourth year: SPAN-4610 Advanced Spanish Grammar	

^{*} Elementary Spanish does not count toward the major.

Department of English, Literature, and Modern Languages Spanish Education — Multi-Age

Spanish Education — Multi-Age

The **Spanish education major** provides students with the cultural background and language skills necessary to function in the Spanish classroom and in the Spanish-speaking world. This major prepares students to teach in grades K–12 in public and Christian schools. For information about teaching in other states, see the School of Education section in this catalog.

Course requirements involve 37 credit hours in Spanish and 43 credit hours in professional education requirements including:

creati nours in professional education requirements including:
Spanish Education major core courses:22
LING-3100 Principles of Language Acquisition
SPAN-2710 Intermediate Spanish I4
SPAN-2720 Intermediate Spanish II
SPAN-3610 Spanish Composition3
SPAN-3620 Spanish Conversation
SPAN-3640 Introduction to Hispanic Literature
SPAN-4610 Advanced Spanish Grammar3
Two courses selected from the following6
SPAN-4650 Civilization and Literature of Latin America I 3
SPAN-4670 Civilization and Literature of Latin America II 3
SPAN-4740 Civilization and Literature of Spain I
SPAN-4750 Civilization and Literature of Spain II
Additional Spanish Electives selected from the following9
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals
Additional Spanish Electives selected from the following9 SPAN-2760 Spanish for Professionals

^{*}Additional Civilization and Literature Electives not taken above

Professional Education Requirements	43
EDSE-3000 Principles of Teaching AYA Learners	
EDSE-4450 Adolescent/Young Adult Field Experience	2
EDSP-2100 Exceptionalities and Behavior	2
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDUC-1000 The Education Profession	2
EDUC-1050 Preliminary Student Involvement	0
EDUC-2050 Teaching Diverse Learners	2
EDUC-2100 e-Learning for Educators	3
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	3
EDUC-3100 Philosophical Foundations of Education	
EDUC-3200 Faith and Learning Alignment	1
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
*EDUC-4900 Student Teaching and Seminar-Multi-Age	12
SPAN-3500 Methods of Teaching Foreign Language	2
*Capstone Course	

Spanish Education Multi-Age Major Curriculum Summary

	,
Proficiency Requirements	0–4
General Education Requirements	48
Spanish Education Multi-Age Major Requirements	37
Education Requirements	
Total (minimum, not including proficiency)	
rotal (Illiminatin, not including proficiency)	12

A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Spanish Education — Multi-Age

First year:
BTGE-1725 The Bible and the Gospel
COM-1100 Fundamentals of Speech
EDUC-1000 The Education Profession
ENG-1400 Composition
GBIO-1000 Principles of Biology
GMTH-1010 Introduction to Mathematics
GSCI-1020 Principles of Physical Science
PEF-1990 Physical Activity and Healthy Living2
SPAN-2710 Intermediate Spanish I4
SPAN-2720 Intermediate Spanish II
LIT-2XXX Literature Elective3
Total
Second year:
BTGE-2730 Old Testament Literature3
EDSP-2100 Exceptionalities and Behavior2
EDUC-1050 Preliminary Student Involvement0
EDUC-2050 Teaching Diverse Learners2
EDUC-2100 e-Learning for Educators
EDUC-2300 Assessment and Differentiation
HUM-1400 Introduction to the Humanities
History Elective
SPAN-3500 Methods of Teaching Foreign Language2
SPAN-3610 Spanish Composition
SPAN-3620 Spanish Conversation3
SPAN-3640 Introduction to Hispanic Literature3
SPAN-XXXX Civilization and Literature Elective3
T otal32
Third year:
BTGE-2740 New Testament Literature3
BTGE-3755 Theology I3
EDSE-3000 Principles of Teaching AYA Learners4
EDUC-2500 Educational Psychology3
EDUC-3200 Faith and Learning Alignment1
EDUC-4000 Reading and Writing in the
Disciplines: AYA and Multi-Age3
SPAN-XXXX Civilization and Literature Elective
Casial Caianas Flastina
Social Science Elective
Spanish Electives
Total
Fourth year:
BTGE-3765 Theology II
EDGE-3703 THEOlogy II
EDSE-4450 Adolescent/Young Adult Field Experience
EDSP-4250 Communication, Collaboration, and Inclusion2
EDUC-3100 Philosophical Foundations of Education3
EDUC-4900 Student Teaching and Seminar — Multi-Age12
GSS-1100 Politics and American Culture
LING-3100 Principles of Language Acquisition3
SPAN-4610 Advanced Spanish Grammar
Total 31

Testing requirements: MASPN majors will score Advanced-Low on the ACTFL Oral Proficiency Interview and Writing Proficiency Test licensure exams.

Department of English, Literature, and Modern Languages Minors

Minors

Asian Studies Minor

The Asian studies minor provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Asian studies minor involve 20 credit hours including: CHN-1100, 1200 Elementary Chinese I and II......8 LIT-3460 Contemporary East Asian Literature3 Electives selected from the following......6 ANTH-1800 Cultural Anthropology.......3 BTAT-3470 Cross-Cultural Ministry......3 GEO-3520 World Regional Geography — Eastern.................. 3 LIT-2330 World Mythology......3 PYCH-1800 Cross-Cultural Psychology3

Creative Writing Minor

The creative writing minor is designed to enhance the student's abilities in various modes of writing. Course requirements involve 21 credit hours including: CWRT-3030 Fiction......3 CWRT-3040 Poetry......3 CWRT-3050 Creative Nonfiction......3 CWRT-4220 Advanced Creative Writing Workshop3 CWRT-4350 Creative Writing Capstone......3 Electives (choose one from the following)......3 ART-1110 Drawing Foundations 3 ART-2250 Creative Photography......3 LIT-3100 Contemporary Young Adult Literature 3 LIT-3530 Graphic Novel......3 THTR-2430 Acting I 3

Editing and Publishing Minor

French Minor

The **French minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 17 credit hours including:

FREN-1920 Elementary French II

FREN-1920 Elementary French II	4
FREN-2910 Intermediate French I	
FREN-2920 Intermediate French II	3
Selected from the following:	6
FREN-3910 French Conversation	
FREN-3920 Contemporary French Culture	3
FREN-3930 Survey of French Literature	3
FREN-3940 Special Topics in French	

German Minor

The **German minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 17 credit hours including:

GER-1820 Elementary German II

GER-1820 Elementary German II	4
GER-2810 Intermediate German I	4
GER-2820 Intermediate German II	
GER-3830 Survey of German Literature	
3000-level German Electives	3

Latin American Studies Minor

The Latin American studies minor provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Latin American studies minor involve 22 credit hours including: ANTH-1800 Cultural Anthropology3 INTL-3200 History and Politics of Latin America3 SPAN-2710 Intermediate Spanish I4 Electives selected from the following......6 SPAN-3620 Spanish Conversation 3 SPAN-4670 Civilization and Literature of Latin America II 3

^{*}This course has a Prerequisite

Department of English, Literature, and Modern Languages Minors

Linguistics Minor

The **linguistics minor** is designed for students who want an introduction to linguistics. The linguistics minor provides an introduction to theoretical linguistics concepts and their application for a broad array of vocational fields. Course requirements involve 24 credit hours including:

FREN/GER/SPAN-2XXX second year modern language	7
LING-2070 Introduction to Linguistics	2
LING-3080 Linguistics for Language Learning	
LING-3090 Sociolinguistics	
LING-3100 Principles of Language Acquisition	
Flectives selected from the linguistics major concentrations	

Literature Minor

Middle Eastern Studies Minor

The **Middle Eastern studies minor** provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements involve 22 credit hours including:

One year of Elementary Middle Eastern language(or ARBC-1400 Introduction to Arabic Language	6–8
and Culture	3
*and one semester of HEB-1XXX Hebrew	
(or ARBC-1410, 1420 Elementary Arabic I and II	
ANTH-1800 Cultural Anthropology	
INTL-3220 History and Politics of Middle East	
Electives selected from the following	
ARBC-2410, 2420 Intermediate Arabic I and II	
ARBC-3500 Independent Study in Arabic Language	
and Culture	1–3
BTAT-3200 Introduction to Missions: Theology and Hist	ory 3
BTAT-3450 Contemporary World Mission	
BTAT-3470 Cross-Cultural Ministry	3
BTPA-2260 World Religions	3
COM-2140 Intercultural Communication	3
GEO-3520 World Regional Geography — Eastern	3
LIT-2330 World Mythology	3
PYCH-1800 Cross-Cultural Psychology	3

Spanish Minor

Spanish for Healthcare Personnel Minor

Spanish for Professionals Minor

^{*}Hebrew is through online or study abroad programs.

Department of English, Literature, and Modern Languages Special Program

Teaching English to Speakers of Other Languages (TESOL) Minor

The **TESOL** minor prepares students to teach English to speakers of other languages in multi-age classrooms without obtaining state teacher licensure. Students who complete the TESOL minor are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 100 on the internet-based exam, or an IELTS score of 7, and a score of 55 or higher on the Test of Spoken English or have department approval to be admitted to the minor. Course requirements for the TESOL minor involve 16 hours including:

ENG-3070 English Grammar	3
LING-3080 Linguistics for Language Learning	
LING-3090 Sociolinguistics	
LING-3100 Principles of Language Acquisition	
LING-3500 Methods of Teaching Foreign Language	
LING-3710 TESOL Practicum for Non-Education Majors	

TESOL Endorsement

The **TESOL endorsement** prepares teachers to teach English to Speakers of Other Languages in multi-age classrooms in the United States and overseas. Students interested in the TESOL endorsement must possess or be working toward the completion of degree and licensure requirements. Students who complete the TESOL endorsement program will automatically receive the minor and are eligible to receive an institution-endorsed certificate. To receive the certificate, a student must earn a 3.0 or higher for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 100 on the internet-based exam or an IELTS score of 7 and a score of 55 or higher on the Test of Spoken English or have department approval to qualify for admission. Course requirements for the TESOL endorsement involve 19 hours including:

ENG-3060 History of the English Language	3
ENG-3070 English Grammar	
LING-3080 Linguistics for Language Learning	3
LING-3090 Sociolinguistics	
LING-3100 Principles of Language Acquisition	3
LING-3500 Methods of Teaching Foreign Language	
LING-3610 TESOL Practicum for Education Majors	

Western European Studies Minor

The Western European studies minor provides students with language skills and cultural background knowledge focused on developing a greater understanding of events, ideas, and beliefs from that region of the world. Course requirements for the Western European studies minor involve 22 credit hours including: ANTH-1800 Cultural Anthropology3 FREN-2910, 2920 Intermediate French I and II......7 (or GER-2810, 2820 Intermediate German I and II.......7) INTL-3230 History and Politics of Western Europe......3 Electives selected from the following......6 BTAT-3470 Cross-Cultural Ministry......3 LIT-2330 World Mythology......3 FREN/GER/SPAN 3XXX or 4XXX elect. not used in core 3-6

Special Program

Certificate in Medical Spanish Program

Training in language and cultural skills essential for working with Spanish-speaking patients in a variety of health care settings. Program is designed primarily for students with prior knowledge of Spanish majoring in health care professional programs.

and SPAN-4700 Independent Study in Translation.......1

SPAN-3670 Intro to Translation2



Department of History and Government

Mission Statement	138
Department Objectives	138
Personal Requirements	138
Department Requirements	138
Technical Resources	138
Programs of Study	138
Cocurricular Opportunities	138
Center for Political Studies	139
Career Opportunities	139
Faculty	139
Majors	
» Criminal Justice	140
» Forensic Science	141
» History	142
» International Studies	144
» Political Science	145
» Prelaw	146
» Social Studies Education — Integrated	147

Pathways to a Graduate Degree	
» Graduate Program Pathway Option for	
History	. 143
» Graduate Program Pathway Option for	
Political Science	. 145
Minors	
» Church History Minor	. 148
» Criminal Justice Minor	. 148
» History Minor	. 148
» International Studies Minor	. 148
» National Security Minor	. 149
» Political Science Minor	. 149
» Public Administration Minor	. 149
» Public Policy Minor	. 149
» Sociology Minor	. 149
Department of History and Government	
Course Descriptions	. 278

Department of History and Government Mission Statement

Mission Statement

The goal of the Cedarville University Department of History and Government is to develop ethical, intellectually prepared, and articulate graduates who can refine and integrate an evangelical Christian worldview in their specific disciplines from a reasoned political, economic, and historical perspective, and who can then serve effectively in a diverse global community.

Department Objectives

Upon completion of courses in the Department of History and Government, students will:

- Evidence knowledge of the basic components of their respective academic disciplines.
- Participate in graduate study and/or practice as professionals in public and private professions.
- Demonstrate competence in the methods and tools of original quantitative and qualitative research and the ability to formulate and express the results.
- Exhibit critical analysis in evaluating historical and/or contemporary issues.
- Display the ability to integrate biblical truth with their academic disciplines through the investigation and study of society.

Personal Requirements

A solid high school college preparatory program provides an excellent background for students entering the various majors in the department.

Department Requirements

To graduate with a degree from the Department of History and Government, students must earn a cumulative average of 2.0 or higher and a "C-" or higher in all courses required by their selected major. In addition, **all** majors must complete the following:

- A senior research project under the direction of a faculty advisor. This research project will also be directed by a three-member committee that shall be selected with the advice of their research director and will include at least one professional member outside the Department of History and Government.
- A presentation of selective senior research projects presented to invited faculty, students, and guests.
- A major field content assessment exam in their area at the scheduled time during the spring semester of their senior year (as required).

Technical Resources

A large number of computer software programs are available to students, including:

- · A variety of presentation programs
- Database programs
- JStor Research Database
- Spreadsheet programs
- · Statistical analysis programs
- · Various search engines
- · Word processing programs
- · Web and HTML programs

Several of the department programs prepare students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives and on occasion be exposed to the technologies being utilized by a career area.

Programs of Study

The Department of History and Government offers the following programs of study:

Bachelor of Arts (B.A.) in:

- · Criminal Justice
- History
- International Studies
- Political Science
- Prelaw
- Social Studies Education Integrated

Bachelor of Science (B.S.) in:

Forensic Science*

*In cooperation with the Department of Science and Mathematics; see page 201.

Minors

- · Church History
- · Criminal Justice
- National Security
- History
- International Studies
- Political Science
- · Public Administration
- · Public Policy
- Sociology

Cocurricular Opportunities

Each major has several professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Alpha Delta Nu

Alpha Delta Nu provides criminal justice students with the opportunity to enhance their professional development. Members are students who believe that a career in criminal justice is a ministry in a God-ordained institution, which is government. This organization promotes Christian character, leadership, and service through training, information, and networking to supplement academic studies. The society assists students to prepare for a transition to their professional field as practitioners.

Cedarville Legal Society

The Cedarville Legal Society organizes educational activities related to the application process for law school, preparing to take the LSAT, choosing a major or minor, and selecting a career in law. The organization plans activities such as visits to law schools, trips to court buildings, and events with legal professionals discussing the field of law and careers in that field. The Legal Society hosts forums on current legal issues, establishes relationships between students with common career goals, and promotes the profession of the law. The organization also sponsors the Cedarville Moot Court Team.

College Republicans

College Republicans is an organization dedicated to the development of Christian leaders in the political arena.

Epsilon Pi Lambda

History and Government Association is a student organization that provides opportunities for students to grow in their appreciation of the fields of history and government and provide an outlet for pursuing knowledge, obtaining academic support, gaining fellowship, and providing service.

Model United Nations Team

Model United Nations Team is a simulation of the United Nations system. Students assume the roles of ambassadors to the United Nations and negotiate current global issues. The Cedarville University Model UN Team participates in an intercollegiate competition in which participants seek to deal with complex global concerns such as the environment, economic

Department of History and Government Center for Political Studies

development, refugees, AIDS, disarmament, and human rights. As representatives of UN member nations, team members must master a great deal of detailed information about national policies while remaining in character—responding to debates and negotiations in the same manner as a UN delegate from that nation.

Omega Mu

Omega Mu is the Cedarville University chapter of Pi Sigma Alpha – the National Political Science Honor Society. The goal of this honor society is to promote the scholarly investigation of politics and to assist its members in developing their leadership potential in their sphere of influence.

Renaissance Guild

Renaissance Guild increases learning and awareness of the medieval and Renaissance eras and provides fellowship with likeminded individuals.

Center for Political Studies

The Center for Political Studies at Cedarville University was founded to articulate a biblical view of government through the study of politics, law, history, and public policy; to educate Cedarville University faculty, staff, students, and constituents; and to engage and influence American political culture. The Center sponsors, among other programs, regular lecture series and an annual roundtable discussion of contemporary political issues.

Career Opportunities

Graduates of the department have attended some of the nation's outstanding graduate and professional schools. Careers pursued by graduates include:

- Administrator
- Archaeologist
- Archivist
- Attorney
- Campaign Manager
- City Manager
- College Professor
- Community developer
- Diplomat
- · Federal law enforcer
- · Forensic scientist

- Government worker
- · High school teacher
- · Historical researcher
- Librarian
- · Parole agent
- Politician
- Police officer
- Prison caseworker
- Prison manager (warden)
- Probation officer
- · Public administrator

Faculty

Mark C. Śmith, Chair, Professor of Political Science; Director, Center for Political Studies. *Education:* B.A., Bryan College, 1992; M.A., Trinity International University, 1995; M.A., University of Georgia, 1997; Ph.D., University of Georgia, 2001. At Cedarville since 2004.

Robert Clark, Assistant Professor of History. *Education:* B.A., Calvary Bible College, 1986; M.A., Dallas Theological Seminary, 1991; M.A., Wichita State University, 2007; Ph.D., Kansas State University, 2017. At Cedarville since 2018.

Marc Clauson, Professor of History and Law. *Education:* B.S., Marshall University, 1978; M.A., Marshall University, 1979; J.D., West Virginia University, 1982; M.Th., Liberty University, 1993; M.A., Liberty University, 1993; Ph.D., University of the Orange Free State, South Africa, 2001. At Cedarville since 2002.

Glen Duerr, Associate Professor of International Studies. *Education:* B.A., University of Western Ontario, 2003; M.A., University of Windsor, 2005; Ph.D., Kent State, 2012. At Cedarville since 2012.

Kyung-hwa Kim, Assistant Professor of International Studies. *Education:* B.A., Korea National Open University, 1993; M.A., Hankuk University of Foreign Studies, 1998; M.A., Syracuse University, 2005; Ph.D., Syracuse University, 2017. At Cedarville since 2018.

Justin Lyons, Associate Professor of Political Science. *Education:* B.A., University of Wisconsin-River Falls, 1994; M.A., University of Toronto, 1995; M.A., University of Dallas, 1999; Ph.D., University of Dallas, 2003. At Cedarville since 2018.

Thomas Mach, *Vice President for Academics;* Professor of History. *Education:* B.A., Cedarville University, 1988; M.A., Cleveland State University, 1989; Ph.D., University of Akron, 1996. At Cedarville since 2000.

Steven Meacham, Associate Professor of Criminal Justice. *Education:* B.A., State University of New York at Albany, 1986; M.A., State University of New York at Albany, 2005. At Cedarville since 2019.

Murray Murdoch, Distinguished Professor of History. *Education:* B.Th., Baptist Bible Seminary, 1960; M.A., Northwestern University, 1962; History Faculty Fellow, Northwestern University, 1963; Ph.D., Northwestern University, 1971. At Cedarville since 1965

Patrick Oliver, Associate Professor of Criminal Justice. *Education:* A.A., University of Cincinnati, 1977; B.A., Baldwin Wallace College, 1981; M.B.A., Baldwin Wallace College, 1991; Ph.D., Antioch University, 2013; Penn State University Police Executive School, 1989; FBI Law Enforcement Executive Development School, 1993; Ohio Association Chiefs of Police Executive Leadership College, 1994; Executive Management Institute, 1997. At Cedarville since 2005.

Robert Parr, Senior Professor of Sociology. *Education:* B.R.E., Grand Rapids Baptist College, 1967; M.R.E., Grand Rapids Baptist Seminary, 1970; M.A., Michigan State University, 1982; M.S.W., The Ohio State University, 1990; Ph.D., The Ohio State University, 1987. At Cedarville since 1980.

David Rich, Professor of Public Administration and Political Science. *Education:* B.A., Cedarville University, 1983; M.P.A., University of Dayton, 1988; D.P.A., Western Michigan University, 2006. At Cedarville since 2000.

Kevin Sims, Senior Professor of Political Science. *Education:* B.A., Cedarville University, 1974; M.A., University of Northern Iowa, 1978; Ph.D., The Claremont Graduate School, 1991. At Cedarville since 1990.

Emerit

Joseph Halsey, Professor Emeritus of Political Science. Education: B.A., Morehead State University, 1965; M.Ed., Xavier University, 1969; Ph.D., University of Cincinnati, 1990. At Cedarville from 1970 to 2000.

Frank Jenista, Professor Emeritus of International Studies. *Education:* B.A., Cedarville University, 1968; M.A., University of Dayton, 1970; Ph.D., University of Michigan, 1978. At Cedarville since 2000.

James McGoldrick, Professor Emeritus of Social Science. *Education:* B.S., Temple University, 1961; M.A., Temple University, 1964; graduate study, Dropsie University, 1962; St. Joseph's College, 1968; University of Arkansas, 1969; Ph.D., West Virginia University, 1974; postdoctoral study, University of Scranton, 1977; Pennsylvania State University, summer, 1981; St. Joseph's University, summer 1982; University of Houston, summer 1984. At Cedarville from 1973 to 2001.

Allen Monroe, Professor Emeritus of Social Science. *Education:* B.A., Shelton College, 1957; graduate study, University of Florida, 1958; M.A., Montclair State College, 1965; Ph.D., The Ohio State University, 1970; postdoctoral study, Westminster Theological Seminary, 1978. At Cedarville from 1965 to 2002.

Department of History and Government Criminal Justice

Criminal Justice

The **criminal justice major** prepares students for careers in the criminal justice system. Such careers include law enforcement and correctional activities at all levels of government that have the potential to progress to positions of leadership. The curriculum for the criminal justice major follows criteria proposed by the Academy of Criminal Justice Sciences.

Mission Statement

The mission of Cedarville University's Criminal Justice Program is to prepare students for graduate studies or entry-level positions in a variety of criminal justice fields and to prepare leaders who serve with integrity from a biblical worldview.

Program Objectives

Students will:

- Practice a biblical worldview for lifelong leadership and service in the criminal justice profession.
- Apply critical thinking skills within the context of the criminal justice profession.
- Demonstrate effective oral and written communication skills for use in the criminal justice profession.
- Conduct research effectively within the criminal justice profession.
- Be prepared to become entry-level practitioners in criminal justice or pursue graduate studies.
- Practice interacting effectively with persons of diverse populations.

Core Values

Students must be able to practice the following core values that are key to the criminal justice profession:

- Integrity Demonstrates high moral character and ethical standards in all matters public and private.
- Service Orientation Demonstrates lifelong leadership and service to all mankind.
- Human Relations Skills Demonstrates the ability to effectively interact with other people.
- Team Compatibility Demonstrates the ability to work with others in a cooperative, caring, and supportive manner to achieve goals of the group.
- Performance Driven Demonstrates the ability to set and achieve performance goals and standards.



Course requirements involve 61 semester hours including:

Criminal Justice requirements	.55
CRJU-1310 Introduction to Criminal Justice	;
CRJU-2200 Criminology3	;
CRJU-2310 Juvenile Delinquency3	j
CRJU-3300 Corrections3	j
CRJU-3350 Criminal Law3	
CRJU-3360 American Judicial System 3	j
CRJU-3400 Criminal Procedure	;
CRJU-3700 Financial Management for the Social	
Science Professional3	
CRJU-3990 Criminal Justice Internship3	
CRJU-4150 Homeland Security3	
CRJU-4200 Police Administration	;
CRJU-4630 American Constitutional Law: Civil Liberties	
and Rights3	1
*CRJU-4900 Research Issues in Criminal Justice3	
GSS-1350 Career Options1	
GSS-3640 Qualitative Methodology and Reasoning 3	
GSS-3650 Quantitative Methodology3	•
HIST-2620 Church and State3	
INTL-2100 Global Issues3	
POLS-2620 American State and Local Government	
Electives select two courses	
BTAT-3510 Introduction to Urban Missiology	
CRJU-2840 Concepts of Chemical Dependency	
CRJU-3500 Foundations of Emergency Management 3	•
CRJU-4160 International and Domestic Terrorism	
CRJU-4320 Criminal Investigation	
POLS-3600 Public Administration	
POLS-3760 Jurisprudence: Philosophy of Law	į
POLS-4640 American Constitutional Law: Government	
Powers and Federalism	,

*Capstone Course

NOTE: Criminal justice students are expected to complete at least three credit hours of internship as part of their major elective hours. These hours can be obtained through a variety of internship opportunities in the local area including a semester study program through the Advanced Technical Intelligence Center (ATIC) in Fairborn, Ohio or the Ohio Peace Officer Basic Training program in Xenia, Ohio. The department has partnered with ATIC and the Greene County Career Center to provide this opportunity to students at Cedarville. Both the Ohio Peace Officer Basic Training Program and the Advanced Technical Intelligence Center (ATIC) provide unique opportunities for Cedarville students. The Peace Officer Basic Training Program is a police academy utilized by many departments throughout Ohio. When combined with Cedarville's B.A. in criminal justice, students will be completely prepared to enter the job market in a variety of areas in law enforcement. ATIC offers training in the field of intelligence for use in both the national and the local arenas. In an effort to help fill the human capital pipeline with trained, cleared professionals, ATIC offers intelligence internships to college juniors, seniors, and graduate students. To achieve this, ATIC partners with colleges and universities to offer a semester of training and research experience to qualified candidates. In addition, through agreements with government customers, and due to the classified content that students may be exposed to during the course, students who participate in the program will be submitted for a U.S. security clearance. If the government grants the clearance, the students are even more marketable and better prepared to enter the Intelligence Community (IC), private industry, academia, and other government organizations.

Criminal Justice Major Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	42–50
Criminal Justice Major Requirements	
General Electives	17–25
Total (minimum, not including proficiency)	128

Department of History and Government Forensic Science

A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Criminal Justice

<i>F</i> :1
First year:
BTGE-1725 The Bible and the Gospel3
COM-1100 Fundamentals of Speech3
CRJU-1310 Introduction to Criminal Justice3
ENG-1400 Composition
GSS-1100 Politics and American Culture
GSS-1350 Career Options
HUM-1400 Introduction to the Humanities3
INTL-2100 Global Issues3
PEF-1990 Physical Activity and Healthy Living2
Biological Science Elective
Physical Science Elective
Total
Iotal31
Second year:
BTGE-2730 Old Testament Literature
BTGE-2740 New Testament Literature3
CRJU-2200 Criminology3
CRJU-2310 Juvenile Delinquency3
GSS-3640 Qualitative Methodology and Reasoning3
GSS-3650 Quantitative Methodology
UST 2000 Of the House Metrodology
HIST-2620 Church and State3
LIT-2XXX Literature Elective3
POLS-2620 American State and Local Government
Humanities Elective3
Electives 3
Total
10tal
Third year:
BTGE-3755 Theology I
BTGE-3765 Theology II
CRJU-3300 Corrections3
CRJU-3350 Criminal Law3
CRJU-3360 American Judicial System3
CRJU-3400 Criminal Procedure
CRJU-3700 Financial Management for the Social Science
Professional
Professional
CRJU-3990 Criminal Justice Internship3
Criminal Justice Electives6
Electives3
Total
Fourth year:
CRJU-4150 Homeland Security
CRJU-4200 Police Administration
CRJU-4630 American Constitutional Law: Civil Liberties & Rights 3
CRJU-4900 Research Issues in Criminal Justice
Electives
Total 31



Forensic Science

Interested students may consider a Bachelor of Science degree with a major in **forensic science**. This is an undergraduate interdisciplinary degree program with an emphasis on advanced (upper-level) coursework and substantial laboratory work in the sciences. Students completing this program will also earn a minor in criminal justice and participate in an internship in a state crime laboratory their junior and senior years. This program is provided in partnership with the Department of Science and Mathematics. Program requirements can be found on page 201.



Department of History and Government History

History

The **history major** prepares students for graduate work or for careers in a variety of fields including government, law, business, education, public history, and the Gospel ministry. Traditionally a key component of the classical liberal arts education, history and the skills demanded by the historical process provide a necessary foundation for learning. Coursework encourages students to evaluate the historical narrative based on biblical principles, resulting in an integrative understanding.

Course requirements involve 46 hours including:	
GSS-1350 Career Options	1
GSS-3640 Qualitative Methodology and Reasoning	
GSS-3650 Quantitative Methodology	
HIST-1110 United States History I	
HIST-1120 United States History II	
HIST-2010 History of Civilization I	
HIST-2020 History of Civilization II	
HIST-2620 Church and State	
HIST-3000 Introduction to Historiography	
*HIST-4500 Seminar	
**HIST-4700 Research in History	
INTL-2100 Global Issues	3
*Students may take multiple topics, but not the same topics twice	
**Capstone Course	

History Major Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	
History Major Requirements	
Electives	
Total (minimum, not including proficiency)	128



A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in History

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GSS-1100 Politics and American Culture	
GSS-1350 Career Options	
HIST-1110 United States History I	3
HIST-1120 United States History II	
HUM-1400 Introduction to the Humanities	
INTL-2100 Global Issues	3
PEF-1990 Physical Activity and Healthy Living	2
Electives	
Total	
Second year:	_
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
GSS-3640 Qualitative Methodology and Reasoning	
GSS-3650 Quantitative Methodology	
HIST-2010 History of Civilization I	
HIST-2020 History of Civilization II	
HIST-2620 Church and State	
Biology Elective	
Humanities Elective	
Physical Science Elective	
Total	31
Third year:	
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
HIST-3000 Introduction to Historiography	
LIT-2XXX Literature Elective	3
Electives	
Total	33
Fourth year:	
HIST-4500 Seminar	
HIST-4700 Research in History	
Electives	
Total	32



Department of History and Government History

Suggested Three-Year Curriculum for a Major in History

Fall Year 1: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1350 Career Options 1 HIST-1110 United States History I 3 HIST-2010 History of Civilization I 3 Electives 1 Total 17
Spring Year 1 BTGE-2730 Old Testament Literature 3 HIST-1120 United States History II 3 HIST-2020 History of Civilization II 3 HIST-2620 Church and State 3 INTL-2100 Global Issues 3 PEF-1990 Physical Activity and Healthy Living 2 Total 17
Summer Year 1 BTGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 LIT-2XXX Literature Elective 3 Physical Science Elective 3.5 Electives 3 Total 15.5
Fall Year 2: GSS-3640 Qualitative Methodology and Reasoning
Spring Year 2. BTGE-3755 Theology I
Summer Year 2. BTGE-3765 Theology II 3 HIST-4500 Seminar 3 HUM-1400 Introduction to the Humanities 3 Biology Elective 3.5 Humanities Elective 3 Total 15.5
Fall Year 3. HIST-3000 Introduction to Historiography
Spring Year 3: HIST-4700 Research in History 3 HIST-4500 Seminar 12 Total 15

Graduate Program Pathway Option for History

The Bachelor of Arts in history program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.







Department of History and Government International Studies

International Studies

The **international studies major** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as diplomacy, intelligence, international media, humanitarian assistance, international relations, and missions.

Course requirements involve 55 hours, including:	
International Studies Core	
ANTH-1800 Cultural Anthropology	3
BTPA-2260 World Religions	3
BUS-3910 International Business	3
COM-2140 Intercultural Communication	3
(or PYCH-1800 Cross-Cultural Psychology	3)
HIST-2010 History of Civilization I	Ś
(or HIST-2020 History of Civilization II	3)
INTL-2100 Global Issues	Ś
INTL/POLS-3650 International Relations	3
INTL/POLS-3790 Comparative Politics	
Social Science Requirements	
ECON-3350 Comparative Economic Systems	3
GSS-1350 Career Options	1
GSS-3640 Qualitative Methodology and Reasoning	3
GSS-3650 Quantitative Methodology	
GSS-4900 Senior Research	
HIST-2620 Church and State	
Social science electives chosen from	15
Three or more courses selected from	
ECON-3360 International Trade and Economics	
ECON-3380 Economic Development	
and Political Economy	3
INTL-3040 History and Politics of the British	
Isles and Canada	3
INTL-3080 History and Politics of Russia	0
and Eastern Europe	3
INTL-3200 History and Politics of Latin America	o 3
INTL-3210 History and Politics of East Asia	
INTL-3220 History and Politics of the Middle East	
INTL-3230 History and Politics of Western Europe	
INTL-4160 International and Domestic Terrorism	
INTL-4980 Independent Study in	
International Studies1	2
At least one course from Biblical and Theological Studi	-0 -0
BTAT-3450 Contemporary World Missions	20
BTAT-3470 Contemporary World Missions	
At least one course in English, literature, and modern	
languages	2
LIT-2340 Western Literature	
LIT-3400 Contemporary Studies in World Literature	
LIT-XXXX Any Non-American Literature Course	
LING-3080 Linguistics for Language Learning	3
Additional required cognates	
Certified proficiency in a foreign language at a level equiv	/aient

Students are also expected to have an in-depth cross-cultural experience in a non-American culture (at least six weeks). Study abroad must be approved by the department.

International Studies Major Curriculum Summary	y :
Proficiency Requirements	0–4
Other General Education Requirements	39
International Studies Requirements	55
Required Cognates	0–15
Electives	
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in International Studies

wajor in international Studies
First year:
ANTH-1800 Cultural Anthropology3
BTGE-1725 The Bible and the Gospel
COM-1100 Fundamentals of Speech
ENG-1400 English Composition
GSS-1100 Politics and American Culture
GSS-1350 Career Options
HUM-1400 Introduction to the Humanities3
INTL-2100 Global Issues
PEF-1990 Physical Activity and Healthy Living2
Biological Science Elective3.5
Physical Science Elective
Total
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
BTPA-2260 World Religions
COM-2140 Intercultural Communication
(PYCH-1800 Cross-Cultural Psychology3)
GSS-3640 Qualitative Methodology and Reasoning
GSS-3650 Quantitative Methodology3
HIST-2620 Church and State
Elementary Foreign Language requirement0-8
Electives
10tal
Third year:
BTGÉ-3755 Theology I3
BTGE-3765 Theology II
BUS-3910 International Business
ECON-3350 Comparative Economic Systems3
INTL/POLS-3650 International Relations3
Intermediate Foreign Language requirement0-7
LIT-2XXX Literature Elective3
Electives
Total
Fourth year:
GSS-4900 Senior Research3
HIST-2010 History of Civilization I
(or HIST-2020 History of Civilization II
INTL-3790 Comparative Politics
Social Science Electives
Electives 9
Total
1000

*Capstone course

to four semesters of university study.

Department of History and Government Political Science

Political Science

The **political science major** is designed to prepare students for advanced graduate education in the areas of American politics, international relations, political philosophy, and law. It also prepares students for careers in public policy analysis, international affairs, various levels of government, campaign management, interest groups, journalism, and many others. Course requirements involve 52 semester hours including:

Political Science requirements5	2
GSS-1350 Career Options	
GSS-3640 Qualitative Methodology and Reasoning	
GSS-3650 Quantitative Methodology	
*GSS-4900 Senior Research3	
HIST-2620 Church and State3	
INTL-2100 Global issues	
POLS-2100 Topics (2 credit hours taken 3 times)6	
POLS-3650 International Relations	
POLS-3690 Public Policy3	
POLS-3710 History of Political Thought I	
Ancient Through Medieval3	
POLS-3720 History of Political Thought II	
Modern and Contemporary3	
POLS-3790 Comparative Politics	
POLS-4500 Seminar (3 credit hours taken 3 times)9	
POLS-4630 American Constitutional Law —	
Civil Liberties and Rights3	
POLS-4640 American Constitutional Law —	
Government Powers and Federalism3	
*Capstone Course	

Political Science Major Curriculum Summary

rontical Science Major Curriculum Summary	
Proficiency Requirements	0–4
Other General Education Requirements	42-50
Political Science Major Requirements	52
Electives	26-34
Total (minimum, not including proficiency)	128



A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Political Science

First year:
BTGE-1725 The Bible and the Gospel
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GSS-1100 Politics and American Culture3
GSS-1350 Career Options1
HUM-1400 Introduction to the Humanities3
INTL-2100 Global issues
PEF-1990 Physical Activity and Healthy Living2
Biological Science Elective3.5
Physical Science Elective
Electives6
Total
Connectiveness
Second year: BTGE-2730 Old Testament Literature3
BTGE-2730 Old Testament Literature
BTGE-2/40 New Testament Literature
GSS-3640 Qualitative Methodology and Reasoning
GSS-3650 Quantitative Methodology
HIST-2620 Church and State
POLS-2100 Topics 6
Humanities Elective
Electives 5
Total
Third year:
BTGÉ-3755 Theology I
BTGE-3765 Theology II
POLS-3650 International Relations
POLS-3690 Public Policy3
POLS-3710 History of Political Thought I
POLS-3720 History of Political Thought II
POLS-4500 Seminar6
Electives6
Total
Front or an
Fourth year:
GSS-4900 Senior Research
POLS-3790 Comparative Politics
and Rights
POLS-4640 American Constitutional Law: Government
and Federalism
POLS-4500 Seminar
Electives
Total

Graduate Program Pathway Option for Political Science

The Bachelor of Arts in political science program offers an accelerated pathway to the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of History and Government Prelaw

Prelaw

The **prelaw major** is designed to prepare students for law school. The curriculum seeks to provide necessary course content and to develop thinking and analytic skills needed to perform well on the Law School Admissions Test (LSAT) and in law school.

Course requirements involve 50 semester nours including:	
Prelaw Requirements	50
ACCT-2110 Principles of Accounting I	3
BTPA-2200 Introduction to Philosophy	3
BTPA-2240 Logic	3
BUS-2180 Business Law I	3
CRJU-3400 Criminal Procedure	3
ECON-2110 Essentials of Economics	
GSS-1350 Career Options	1
GSS-3640 Qualitative Methodology and Reasoning	
GSS-3650 Quantitative Methodology	
*GSS-4900 Senior Research	3
HIST-2620 Church and State	3
INTL-2100 Global Issues	3
POLS-3760 Jurisprudence	3
POLS-4630 American Constitutional Law: Civil Liberties	
and Rights	3
POLS-4640 American Constitutional Law: Government	
Powers and Federalism	
PWID-3010 Style and Mechanics for Writers	
PWID-3011 Legal Research and Writing	
Elective selected from the following	3
POLS-3720 History of Political Thought II:	
Modern and Contemporary	
POLS-4500 Seminar	
PUAD-3600 Public Administration	3
*Constant Course	

Capstone Course

Prelaw Major Curriculum Summary

i iciaw major carricalani caninary	
Proficiency Requirements	0-4
Other General Education Requirements	39-47
Prelaw Major Requirements	50
General Electives	31–39
Total (minimum, not including proficiency)	128



A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Prelaw

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	3
GSS-1350 Career Options	1
HUM-1400 Introduction to the Humanities	3
INTL-2100 Global Issues	3
PEF-1990 Physical Activity and Healthy Living	
Biological Sciences Elective	
LIT-2XXX Literature Elective	3
Physical Science Elective	
Total	31
Second year:	_
ACCT-2110 Principles of Accounting I	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
BTPA-2200 Introduction to Philosophy	3
BTPA-2240 Logic	3
BUS-2180 Business Law I	
CRJU-3400 Criminal Procedure	
ECON-2110 Essentials of Economics	
GSS-3640 Qualitative Methodology and Reasoning	3
GSS-3650 Quantitative Methodology	3
HIST-2620 Church and State	3
Total	33
Third year:	
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
POLS-3760 Jurisprudence	
PWID-3010 Style and Mechanics for Writers	
PWID-3011 Legal Research and Writing	
Electives	
Total	
10tal	30
Fourth year:	
GSS-4900 Senior Research	3
POLS-4630 American Constitutional Law:	
Civil Liberties and Rights	3
POLS-4640 American Constitutional Law: Governments	
Powers and Federalism	3
Prelaw Elective	
Electives	_
Total	

Department of History and Government Teacher Education Licensure Program

Teacher Education Licensure Program Social Studies Education — Integrated

The **integrated social studies major** prepares students to teach social studies in public and Christian schools in grades 7–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the School of Education section of this catalog.

Course requirements involve 40 semester hours including: Integrated Social Studies Core	40
ANTH-1800 Cultural Anthropology	3
ECON-2110 Essentials of Economics	3
GEO-3510 World Regional Geography—Western	3
GEO-3520 World Regional Geography—Eastern	
GSS-1100 Politics and American Culture	
GSS-3810 Clinical Teaching in Social Studies IGSS-3820 Clinical Teaching in Social Studies II	
HIST-1110 United States History I	ı
HIST-1120 United States History II	3
HIST-2010 History of Civilization I	3
HIST-2020 History of Civilization II	3
HIST-3200 History and Politics of Latin America	
(or HIST-3210 History and Politics of East Asia	
(or HIST-3220 History and Politics of the Middle East	3)
HIST/SOC-3750 Social Movements	
SOC-1300 Introduction to SociologySSED-3800 Teaching Social Studies: AYA	პ
SSED-5000 reaching Social Studies. ATA	∠
Teacher Education	41
EDSE-3000 Principles of Teaching AYA Learners	4
EDSE-4450 Adolescent/Young Adult Field Experience	2
*EDSE-4900 Student Teaching and Seminar: AYA	
EDSP-2100 Exceptionalities and Behavior	
EDSP-4250 Communication, Collaboration, and Inclusion	
EDUC-1000 The Education Profession EDUC-1050 Preliminary Student Involvement	
EDUC-1030 Fleilininary Student involvement	0
EDUC-2100 e-Learning for Educators	2
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	
EDUC-3100 Philosophical Foundations of Education	3
EDUC-3200 Faith and Learning Alignment	1
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
*Capstone Course	
Students must also select a concentration in economics,	
geography, history, political science, or sociology.	
Economics Concentration	15
ECON-2340 Macroeconomics	
ECON-3340 History of Economic Thought	3
GSS-3650 Quantitative Methodology	3
Economics electives selected from	6
ECON-3310 Money and Financial Markets	
ECON-3350 Comparative Economic Systems	
ECON-3360 International Trade Economics	
ECON-3390 Public Finance	3

Geography Concentration	
Select two courses from the following not taken in core: 9	ý
GSS-4900 Senior Research3	
HIST-3200 History and Politics of Latin America3	
HIST-3210 History and Politics of East Asia3	
HIST-3220 History and Politics of The Middle East3	
History Concentration	12
HIST-3000 Introduction to Historiography	_
History electives selected from	
HIST-3030 History of Christianity: Pre-Reformation3	
HIST-3040 History and Politics of the	
British Isles and Canada3 HIST-3050 Renaissance and Reformation Europe3	
HIST-3080 History of Russia and Eastern Europe3	
HIST-3110 Early American History3	
HIST-3120 History of Recent Contemporary America3	
HIST-3130 Civil War and Reconstruction3	
HIST-3230 History and Politics of Western Europe3	
HIST-4050 Diplomacy of the Major Powers3 HIST-4440 Special Topics in History1-3	
HIST-4900 Independent Study in History1–3	
The Tiese maperial Clady in Tholery	
Political Science Concentration	
GSS-3650 Quantitative Methodology	
POLS-2620 American State and Local Government	
Political science elective selected from)
HIST-2620 Church and State3	
POLS-3650 International Relations3	
POLS-3710 History Political Thought I:	
Ancient Through Medieval3	
POLS-3720 History Political Thought II:	
Modern Through Contemporary3 POLS-4050 Diplomacy of the Major Powers3	
POLS-4630 American Constitutional Law:	
Civil Liberties and Rights3	
Sociology Concentration	.12
GSS-3650 Quantitative Methodology) 2
Sociology electives selected from	5
SOC-2200 Criminology3	
SOC-2310 Juvenile Delinquency3	
SOC-2400 Marriage and the Family3	
SOC-2840 Concepts of Chemical Dependency3 SOC-2900 Ethics in the Helping Professions3	
SOC-3330 Social Stratification	
SOC-3340 Sociology of Religion3	
SOC-3710 Family and Society3	
SOC-3730 Social Problems3	
Social Studies Education — Integrated Major	
Curriculum Summary	
Proficiency Requirements	0–4
Other General Education Requirements39	-47
Integrated Social Studies Education Major Requirements52	
Teacher Education Requirements Total (minimum, not including proficiency)	.41
iotai (iiiiiliiuiii, iiot iiiciuuiiig prolicieficy)	132

Department of History and Government Minors

A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Social Studies Education — Integrated

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	3
EDUC-1000 The Education Profession	
EDUC-1050 Preliminary Student Involvement	
ENO 4400 Osmassitism	0
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
GSS-1100 Politics and American Culture	3
HIST-1110 United States History I	3
HIST-1120 United States History II	3
HUM-1400 Introduction to the Humanities	
DEE 4000 Dissoired Astists and Healthan Links	
PEF-1990 Physical Activity and Healthy Living	
Physical Science Elective	
Quantitative Requirement	3
Total	35
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	
ECON-2110 Essentials of Economics	
EDSP-2100 Exceptionalities and Behavior	
EDUC-2050 Teaching Diverse Learners	
EDUC-2100 e-Learning for Educators	
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	3
HIST-2010 History of Civilization I	
HIST-2020 History of Civilization II	
Concentration Requirement	
Total	33
	00
Third on an	00
Third year:	
BTGÉ-3755 Theology I	3
BTGÉ-3755 Theology IBTGE-3765 Theology II	3
BTGÉ-3755 Theology I	3
BTGÉ-3755 Theology IBTGE-3765 Theology II	3 4
BTGÉ-3755 Theology I	3 4 1
BTGÉ-3755 Theology I	3 4 1
BTGÉ-3755 Theology I	3 4 1 3
BTGÉ-3755 Theology I	3 4 1 3
BTGÉ-3755 Theology I	3 4 3 3 1
BTGÉ-3755 Theology I	3 4 3 3 1
BTGÉ-3755 Theology I	3 4 3 3 1
BTGÉ-3755 Theology I	3 4 3 3 1 1
BTGÉ-3755 Theology I	3 4 3 1 1 3 3)
BTGÉ-3755 Theology I	3 4 3 1 1 3 3)
BTGÉ-3755 Theology I	3 3 3 1 3 3) 3)
BTGÉ-3755 Theology I	3 4 3 1 3 3) 3) 3
BTGÉ-3755 Theology I	3 4 3 1 3 3) 3) 3
BTGÉ-3755 Theology I	3 4 3 1 3 3) 3) 3
BTGÉ-3755 Theology I	3 4 1 3 3 3 3 3 3
BTGÉ-3755 Theology I	3 4 1 3 1 3 3 3 3
BTGÉ-3755 Theology I	3 4 1 3 1 3 3 3 3
BTGÉ-3755 Theology I	33
BTGÉ-3755 Theology I	34133333
BTGÉ-3755 Theology I	3333333333333
BTGÉ-3755 Theology I	3333333333333
BTGÉ-3755 Theology I	33
BTGÉ-3755 Theology I	33333333333333333333333333
BTGÉ-3755 Theology I	333333333333333333333333333
BTGÉ-3755 Theology I	333333333333333333333333333

Minors

Church History Minor

semester hours including: BTHT-2500 Church History......3 BTHT-3500 Historical Theology3 HIST-3030 History of Christianity: Pre-Reformation......3 HIST-3300 Modern Church History: Reformation to the Present ...3 Electives3 BTAT-2420 History of Mission......3 HIST-2620 Church & State......3 HIST-3310 American Church History......3

Course requirements for a minor in church history involve 18

Criminal Justice Minor

Course requirements for a minor in criminal justice involve 18 semester hours including: CRJU-1310 Introduction to Criminal Justice3 CRJU-XXXX Criminal Justice Electives15

History Minor

Course requirements for a minor in history involve 17 semester hours including:

HIST-1110, 1120 United States History I and II	.6
HIST-2010 History of Civilization I	.3
HIST-2020 History of Civilization II	.3
HIST-XXXX History Electives	.5

International Studies Minor

Course requirements for a minor in **international studies** involve 18 semester hours including:

*Courses selected from the international studies curriculum9

Courses selected from the international studies core requirements......9

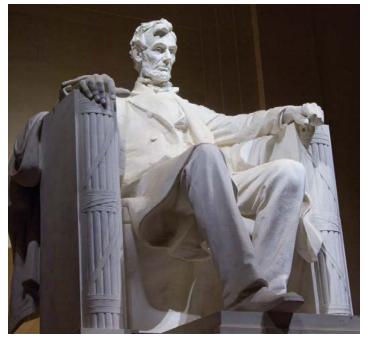
*Three courses from the international studies social science, at least 2 of which must be in the social sciences



Department of History and Government Minors

National Security Minor Course requirements for a minor in national security involve 21 semester hours including: GSS-4990 Social Science/History Internship*
Political Science Minor
Course requirements for a minor in political science involve 18 semester hours including: PUAD-3600 Public Administration
Public Administration Minor Course requirements for a minor in public administration involve 18 semester hours including: MGMT-3500 Principles of Organization and Management
Public Policy Minor Course requirements for a minor in public policy involve 22 semester hours including: POLS-3690 Public Policy
Sociology Minor Course requirements for a minor in sociology involve 18 semester hours including: SOC-1300 Introduction to Sociology





Interdisciplinary Studies

Mission Statement	15
Personal Requirements	15
Programs of Study	15
Cocurricular Opportunities	15
Career Opportunities	15
Honors Program	15
Individualized Studies	153

Reserve Officer Training Corps (ROTC)	152
» Air Force	152
» Army	153
Liberal Arts	154
Interdisciplinary Studies	
Course Descriptions	285
Military Science Course Descriptions	286

Interdisciplinary Studies Mission Statement

Mission Statement

Interdisciplinary programs at the University are designed to encourage the thinking, research, and applications that help students understand the interrelationships among disciplines that are characteristic of a true liberal arts education. Drawing from several academic disciplines, these programs promote learning that broadens and deepens the student's view of knowledge and the world as a whole.

Personal Requirements

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships among the various academic disciplines that comprise the body of knowledge. Though most college preparatory curricula provide a good measure of breadth through their coverage of the basic disciplines, students interested in interdisciplinary programs should choose electives that sharpen their thinking skills and expand their intellectual horizons. Advanced high school courses in writing, literature, mathematics, science, economics, world history, or social science are recommended.

Although background in foreign language is not required for admission to the programs, foreign language competency is necessary for effective international service. Consequently, two or more units of foreign language in high school are strongly recommended.

Programs of Study

The University offers the following interdisciplinary programs:

- Honors Program
- · Individualized Studies
- Liberal Arts
- Reserve Officer Training Corps (ROTC)
 - · Air Force
 - Army

Cocurricular Opportunities

Tau Delta Kappa (TDK) provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the honors program.

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Careers pursued by graduates include:

- Diplomat
- · Government worker
- · International relations
- · Military officer
- Missionary

Honors Program

The **honors program** is designed to challenge gifted students to reach their academic potential through a specially designed course of study. The courses designated as "honors courses" are rigorous and demanding, challenging students to aspire to greater heights in their academic progress.

Admission to the program for entering freshmen is based upon ACT/SAT scores, extracurricular and work experience, and a sample of expository writing. Admitted freshmen students who meet the minimum standardized examination score and GPA requirements will be invited to apply to the Honors Program. Prospective students must complete a separate application, which is available through Admissions.

A limited number of students are admitted into the program each fall. Students enrolled in the honors program are required to complete four honors courses in addition to a senior seminar or project.

Two of these courses are taken in the freshman year in a sequence entitled "The Making of the Modern Mind," which traces the development of philosophic, cultural, and artistic traditions against the background of the history of western civilization. These two courses meet general education requirements in humanities, philosophy, and history.

During the sophomore and junior years, honors students take two integrative seminars. Typically, each honors seminar provides an interdisciplinary perspective on the topic of study. Enrollment in honors seminars is limited to 20 students.

In the senior year, each honors student chooses a capstone experience from two options: (1) Honors students may complete a traditional honors thesis, working one on one with a faculty mentor; or (2) Honors students may participate in the Honors Senior Colloquium during the two semesters of their senior academic year. This seminar provides a capstone experience focusing on developing a Christian worldview in the midst of a contemporary society that is often inhospitable to biblical principle.

Through the honors program, Cedarville University encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to better understand how all knowledge relates to its source in God. The honors program offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into the larger culture for the glory of God and the benefit of men and women in His image.

Course requirements for the honors program involve 16 semester hours including:

I. Freshman Colloquia: The Making of the Modern Mind* 10
HON-1010 The Classical and Medieval Ages5
HON-1020 Renaissance, Reformation, and Revolutions 5
II. Honors Integrative Seminars4
Two sections of the Honors Seminar (HON-3020) on different
topics
III. Honors Capstone2
Either HON-4910 (one hour) and HON-4920 (one hour) in
sequence; or
a two-hour research project (HON-4950).

In addition to the course requirements, a cumulative grade point average of 3.50 or higher is required for completion.

*If taken together, these two courses replace the following general education requirements:

If either of these two courses are taken individually, the course may be designated as five semester hours of credit toward either the humanities or history general education requirements.

Interdisciplinary Studies Individualized Studies

Individualized Studies

The **individualized studies program** serves students with specialized career aspirations that may not fit with a particular major program offered at Cedarville University or those who desire a traditional, broad undergraduate program before proceeding to graduate school. The program leads to a Bachelor of Arts degree and includes the following provisions:

- A student interested in an individualized studies program may submit a proposal after completing 20 semester hours at Cedarville University, exclusive of Advanced Placement, CLEP, and transfer credits, with GPA of 3.25 or higher.
- 2. The student must define the focus of the intended individualized program on the program approval form. In addition, the student must demonstrate that the proposed program objective cannot adequately be achieved through an existing major at Cedarville University. The program approval form must be signed by a faculty sponsor and by the department Chair of one of the major components of the program.
- Each program must be approved by the standing Individualized Studies Committee appointed by the Vice President for Academics. Decisions of this committee may be appealed to the Deans Council.
- When the Individualized Studies Committee approves a student's proposed program, it will assign an academic advisor for the student.
- Changes to the approved program must be approved by the faculty advisor and the Individualized Studies Committee.
- 6. For transcript purposes, the program will typically be called a B.A. degree with an individualized program in liberal arts.
- The individualized program must meet all of the Cedarville University bachelor's degree requirements as detailed in the University catalog. In particular, the following items must be satisfied:
 - A GPA in the program of 2.50 or higher.
 - At least one-third of the program courses must be taken at Cedarville University.
 - At least one-third of the program courses must be taken at the 3000-level or higher.
 - "D" grades will not count as meeting the requirements of the individualized program.
 - A capstone course or experience appropriate to the individualized program and approved by the Individualized Studies Committee.



Reserve Officer Training Corps (ROTC)

Air Force

As a Cedarville University (CU) student, you have the opportunity to become an Air Force officer through a cooperative agreement with Wright State University's (WSU) Department of Aerospace Studies. WSU is the home of Detachment 643 and the host site for several local colleges and universities to provide the Air Force Reserve Officer Training Corps (AFROTC) program to full-time students pursuing a baccalaureate degree, and in some cases a master's degree. While courses are taken through CU, leadership laboratories and most classes are taught at WSU. CU provides transportation.

The AFROTC program is designed to produce Air Force officers who will be successful leaders. All officers are placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The AFROTC program is organized in two portions: the General Military Course (GMC), typically taken during freshman and sophomore years, and the Professional Officer Course (POC), usually taken during junior and senior years or during the last two years prior to graduation. A corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies) is also required. For more information on ROTC course descriptions, please visit wright.edu/air-force-rotc/cadet-life/rotc-classes.

- The GMC is a no-obligation introduction to the Air Force.
 The course covers the Foundations of the United States Air Force (USAF) and the Evolution of USAF and Space Power.
- The POC curriculum covers communicative skills, Air Force Leadership Studies, National Security Affairs and Preparation for Active Duty.

Although the program is open to all majors, selection to the POC is very competitive and depends on your performance. All AFROTC students have the opportunity to apply for scholarships that pay partial or full tuition, books and charges, plus a monthly stipend (stipend amount depends on your progress in the program). These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. High school students interested in scholarship opportunities should visit afrotc.com and review the scholarship application process. Apply at **afrotc.com**. In-college students will apply for scholarships through their AFROTC instructor. If you are a freshman and want to enroll in AFROTC sign up for AES-1210 Foundations of the USAF I and AES-1211 GMC Leadership Lab.

For further information about AFROTC at CU, students should contact:

The Department of Aerospace Studies

Wright State University Dayton, Ohio 45435 Phone: 937-775-2730 Email: afrotc@wright.edu

Website: wright.edu/air-force-rotc

or

Cedarville University Admissions Office

Phone: 1-937-766-7700 Email: admiss@cedarville.edu

Interdisciplinary Studies Army

Army

Cedarville University students have the opportunity to be commissioned as officers in the United States Army by successfully completing the Army ROTC program conducted by the Marauder Battalion Army ROTC program hosted at Central State University. Scholarship opportunities are available for qualified students. Classes, labs and physical training are usually conducted at Central State University, located four miles south of Cedarville. All Army ROTC courses are taken through Cedarville University. Cedarville University provides transportation to and from all ROTC activities.

The Army ROTC program's objective is to recruit, train and commission men and women possessing qualities of leadership, duty, respect, selfless service, honor, integrity and personal courage to become Commissioned Officers in the United States Army.

The Army ROTC program is divided into the Basic Course (freshman and sophomore years) and the Advanced Course (junior and senior years). Students must have credit for both the Basic Course and Advanced Course. Credit for the Basic course can be obtained by completing the Basic Course curriculum, prior or current military service, four years of Junior ROTC in High School or by attendance at the Army ROTC Basic Camp conducted at Fort Knox, Kentucky between the student's sophomore and junior year of college. Students must complete the full academic program of the Advanced Course to be commissioned. There is no military obligation until a student signs a contract with Army ROTC. The Basic Course is open to all students with no military obligation required.

Two and three year scholarships are generally available for qualified students already on campus. In certain circumstances four year scholarships may be available for specific majors. To be considered for an on-campus scholarship contact the Recruiting Operations Officer at rotc@centralstate.edu. Students must show commitment by enrolling in the proper Army ROTC Course to be considered. In addition to coursework, Army ROTC students that are contracted or desiring to contract are required to attend a weekly Leadership Laboratory and Physical Fitness Training.

High School students can apply for the National Scholarship beginning on or about June 12th between their junior and senior year of high school. Apply at goarmy.com/rotc or click on the link on the front page of the Marauder Battalions' website site at www.centralstate.edu\rotc. There are deadlines to apply for the scholarship.

The Army ROTC Scholarship covers 100% tuition and fees, \$1200.00 per year for books and a monthly stipend. Any academic award you are granted by Cedarville may be applied to your room

and board. There are restrictions to this, please contact Cedarville Financial Aid for specifics.

Army ROTC Cadets can participate in worldwide military training opportunities while pursuing their degree at Cedarville University. Opportunities include Airborne School, Air Assault School, Foreign Language Program, Cultural Understanding and Language Program and Cadet Troop Leaders Training.

Students can pursue a career as an active duty officer or serve part-time in the Army National Guard or the Unites States Army Reserves. The Army National Guard and the United States Army Reserves have alternate ways to pay for school in addition to the Army ROTC Scholarship. Students are advised to consult with the Recruiting Operations Officer in conjunction with a Recruiter prior to enlisting to ensure students stay academically aligned with school and required military training.

Interested students should contact:

Department of Military Science Central State University

Attention: Recruiting Operations Officer

Room 142

1400 Brush Row Road

Wilberforce, Ohio 45384

rotc@centralstate.edu

Website: www.centralstate.edu/rotc or www.cedarville.edu/rotc

Office: (937) 376-6283 Cell: (937) 361-2263

Or by contacting Cedarville Admissions at 1-800-Cedarville (233-2784)

Interdisciplinary Studies Liberal Arts

Liberal Arts

The **Bachelor of Arts degree with a major in liberal arts,** having the breadth and depth of a traditional liberal arts degree, allows some student latitude in choosing courses.

Students must apply to the program to gain entrance. Students can apply at the end of the second semester of the freshman year for entry into the sophomore year. To be considered for this program, a student must meet the following requirements:

- Maintain a 3.25 GPA or higher
- Supply two faculty recommendations.

Freshmen may enter Cedarville University as a liberal arts major with provisional approval if they have one of the following combined with a 3.5 high school GPA: 27 or higher on the ACT, 1260 or higher on the SAT, or 84 or higher on the CLT. However, they must meet the requirements at the end of their freshman year in order to stay in the program.

A liberal arts committee made up of one faculty member from each area of the core will decide if a student will be granted entry into the program. The appropriate faculty member in each area of the core will serve as the academic advisor. The chair of the liberal arts committee will sign as department Chair on all forms.

The liberal arts committee will approve all programs decided on by the student and the advisor. The proposed program must be approved by the end of the sophomore year.

Students must include a study abroad component of at least six weeks within their four years of study. A summer travel study experience would satisfy this requirement.

Course requirements involve 70 hours, including: LART-1000 Introduction to Liberal Arts	1
LART-4940 Senior Research Methodology	1
*LART-4950 Senior Project	2
Foreign Language through Intermediate Level	
Core requirements	30-39
Humanities requirements (English, Literature)	6
Fine Arts requirements (Art, Music, Theatre)	6
Social Science and History requirements (History,	
Political Science, Sociology)	6
Science and Mathematics	6
Theology and Philosophy (at least one course	
in Philosophy)	6
Concentration requirements	
3000- and 4000-level courses chosen within one of the fiv	

*Capstone Course

Liberal Arts Major Curriculum Summary:

core requirement divisions.

Proficiency Requirements	0–4
General Education Requirements	51
Liberal Arts major Requirements	70
Electives	
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Liberal Arts

First year: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 HUM-1400 Introduction to the Humanities 3 LART-1000 Introduction to Liberal Arts 1 LIT-2XXX Literature Elective 3 PEF-1990 Physical Activity and Healthy Living 2 Biology Elective 3.5 History Elective 3 Humanities Elective 3 Quantitative Elective 3 Total 30.5
Second year: 3 BTGE-2730 Old Testament Literature
Third year: 3 BTGE-3755 Theology I 3 GSS-1100 Politics and American Culture 3 Core Requirements 15-16 Intermediate Foreign Language 6-7 Social Science Elective 3 Total 31
Fourth year: BTGE-3765 Theology II 3 LART-4940 Senior Research Methodology 1 LART-4950 Senior Project 2 Concentration Requirements 21 Electives 7 Total 34





Department of Music and Worship

Purpose Statement	156
Music Student Objectives	156
Accreditation	156
Requirements for Music and Worship	
Admission	156
Music Requirements	156
Worship Requirements	157
Programs of Study	158
Technical Resources	158
Cocurricular Opportunities	158
Career Opportunities	158
□ It	150

Majors	
» Composition	. 159
» Keyboard Pedagogy	. 161
» Music	. 162
» Performance	. 165
» Bachelor of Music Education	. 168
» Worship	. 170
Pathways to a Graduate Degree	
» Graduate Program Pathway Option for	
Music	. 164
» Graduate Program Pathway Option for	
Worship	. 172
Minors	
» Music Minor	. 172
» Music Technology Minor	. 172
» Worship Minor	. 172
Department of Music and Worship	
Course Descriptions	. 287

Department of Music and Worship Purpose Statement

Purpose Statement

The Cedarville University Department of Music and Worship provides a high-quality Christ-centered undergraduate education in music and worship, building a strong artistic, intellectual, and practical foundation for professional careers and graduate studies. The department serves the University, church, and global community through outreach, performance, and educational activities. The faculty of teaching-artists is dedicated to the education of the whole person and committed to helping students realize their highest level of musicianship and development as human beings created in the image of God.

Music Student Objectives

Upon completion of the music curricula and courses, music majors will:

- Develop and demonstrate technical skills required for artistic self-expression in at least one major performance area.
- Demonstrate artistic mastery of assigned repertoire appropriate to their performance field, and perform from a diverse cross-section of that repertoire.
- Identify and describe a broad range of music literature in terms of cultural sources, principle stylistic eras, and typical genres.
- Sight-read, with fluency, while demonstrating general musicianship and relevant, professional skills in their major performance area.
- · Acquire and demonstrate proficient keyboard skills.
- Develop and use appropriate conducting and rehearsal skills, as required.
- Visually and aurally identify the basic elements of music (rhythm, melody, harmony, and form) and use this knowledge in aural, verbal, and written analyses.
- Demonstrate the ability to take aural dictation of rhythms, melodies, and harmonic progressions.
- Formulate aesthetic judgments, orally and in writing, with regard to musical analysis, processes and structures, composition, performance, scholarship, and pedagogy.
- Develop the rudimentary ability to improvise original music or to create a derivation or variation of an established work both extemporaneously and in writing.
- Recognize and identify, visually and aurally, representative compositions from each era of musical history, styles of particular composers within each era, and apply correct historical information to appropriate teaching situations.
- Demonstrate a working knowledge of technological developments applicable to musicians.
- Develop creative approaches to musical problem-solving through multiple modalities of thinking.
- Create and articulate a Christ-centered philosophy of music.
- Serve and enrich the University, church, and global community.

Accreditation

Cedarville University is an accredited institutional member of the National Association of Schools of Music.

Requirements for Music and Worship Admission

Admission and Auditions

Applicants who wish to major in music or worship should follow the standard procedures for admission to the University. Satisfactory completion of an audition is required for approval as a music or worship major.

Students should visit the website at

cedarville.edu/musicworship (Music Auditions or Worship Auditions) to obtain audition requirements and to schedule an audition.



Scholarships

Scholarship assistance is available to music and worship majors who qualify on the basis of audition, academic record, and references. Additional academic scholarships and other types of financial assistance are available to qualified individuals through Cedarville University Financial Aid.

Music Theory Placement Exam

All incoming music majors are required to take the Music Theory Placement Exam. This test assures that students have the minimum knowledge necessary for college-level music theory courses. The exam is given on all audition days and during Getting Started Week activities. Though not required, all incoming worship majors are highly encouraged to take the Theory Placement Exam.

Students who have had significant music theory training prior to attending Cedarville may take the Music Theory Test-Out Exam. Contact the Department of Music and Worship for additional information regarding this test.

Department Requirements

To graduate with a major from the Department of Music and Worship, students must earn at least a 2.0 cumulative average in all courses required for their major and a "C-" or higher in all courses taken to meet specific requirements in their major.

Music Requirements

Admission

Application and admittance to the University, plus a successful audition, are required for all prospective music students before admission into the music program. The purpose of the audition is to evaluate your potential success as a music student and whether you will be admitted to the department to pursue a music degree. Guidelines for the audition can be found at **cedarville.edu/music**.

Department of Music and Worship Worship Requirements

Private Lessons

Private lessons are open to all music majors and minors with curricular need. Students are required to take private lessons on their major instrument for each semester they are enrolled. Exceptions to this include students who are student teaching, B.A. Music students not pursuing a Performance concentration, and other circumstances as deemed appropriate by the chair. Private lessons are also open to non-majors. Inquiries about non-major lessons should be directed to the Administrative Assistant in the Department of Music and Worship.

Semester Performance Juries

All music majors perform a jury in their primary performing area every semester. The jury is a short performance for a committee of music faculty. The grade from the jury counts for 25 percent of the final grade in private lessons for the semester. For performance majors, the jury counts for 33 percent of the final grade in private lessons.

Freshman Review

After the second semester of study, freshmen are evaluated by a committee of music faculty to determine whether they are making adequate progress to continue in the music program. Students who do not show satisfactory progress may be asked to change majors.

Sophomore Review

While the primary screen for continuance in the music program occurs at the freshman review, student achievement is also checked at the end of the sophomore year to confirm adequate progress toward degree completion and admittance to upper-level music courses.

Piano Proficiency

All music majors are expected to meet the minimum proficiency requirements for piano as established by the department. Piano placement is done during Getting Started Week. Complete piano proficiency requirements are available in the music office.

Ensemble Participation

Music majors are required to participate in at least one large ensemble every semester they are enrolled. Once the credit requirements for their major is fulfilled, they may enroll for 0 credit.

Large ensembles include Wind Symphony, Orchestra, Jazz Band, Concert Chorale, Jubilate, Men's Glee Club, and Women's Choir.

Recital and Program Attendance

Attendance is required of all music majors and minors. All students must complete recital and program attendance each semester they are enrolled as a music major. Minors must take two semesters.

Capstone Recital or Project

In addition to performance in general student recitals throughout the college experience, all music majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior recital or project.

Fees

Instrumental rental fee per semester is \$50. Practice room fee per semester is \$100 (each hour of lesson credit). Private lesson fee is \$300 per semester. Classes that involve labs or University-provided student equipment may also have similar fees.

Music Student Handbook

The Music Student Handbook is the authoritative statement on all department policy as it applies to the student. Each music student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at

cedarville.edu/musicstudentresources

Worship Requirements Admission

Program application and an audition are required for all prospective worship students before admission into the worship program. The purpose of the audition is to evaluate your potential success as a worship student and whether you will be admitted to the department to pursue a worship degree. Guidelines for the audition can be found at **cedarville.edu/worship**.

Private Lessons

All worship students are required to take private lessons. Students should study the instrument for which they are most proficient in order to improve their skills. Earnest practice is expected and mandatory for your success. Juries are required for each student taking private lessons.

Ensembles

All worship students are required to participate in an ensemble every semester that they are on campus.

Worship Forum

All worship students are required to participate in Worship Forum every semester that they are on campus. Worship Forum is designed to help address topics not easily addressed in class, to build community between worship students, and to allow students to work on projects and services together. The class is for zero credit and requirements will be given to you each semester.

First-Year Review

All entering students are admitted into the worship program on a conditional basis. At the end of the first year, students will be asked to complete and submit information that will be combined with their first year grades, recommendations, and private lesson reviews to determine the potential success of each student in upper-level coursework, field experience, internships, and as future worship leaders. The worship faculty members will meet during the week following graduation to evaluate each student's information and make final recommendations regarding the future of the student's ability to continue in the worship program.

Second-Year Review

The members of the worship faculty will evaluate students' progress since the first-year review to see that the students are adequately moving toward completion of their degree programs.

Worship Student Handbook

The Worship Student Handbook is the authoritative statement on all departmental policy as it applies to the student. Each worship student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at **cedarville.edu/worship.**

Department of Music and Worship Programs of Study

Programs of Study

The Department of Music and Worship offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Music
- Worship

Bachelor of Music (B.M.) in:

- Composition
- Keyboard Pedagogy
- Performance

Bachelor of Music Education (B.M.E.) in:

- Choral
- Instrumental

Minors

- Music
- · Music Technology
- Worship

Technical Resources

The Department of Music and Worship relies heavily on the use of technology to accomplish its educational objectives. Music students will spend time in a state-of-the-art music computer/synthesizer lab that allows them to practice ear training, produce printed musical scores, and complete fully orchestrated compositions.

Cocurricular Opportunities

All students are invited to audition for the numerous choral and instrumental ensembles that perform in many different venues throughout the academic year. Students may also participate in one of a growing number of small chamber music groups. Music education majors are required to participate in the collegiate chapter of the National Association for Music Education (NAfME). This award-winning chapter offers many professional and service opportunities to its members.

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Careers pursued by graduates of this department include:

- College professor
- · Community arts manager
- Composer/arranger
- Instrument salesperson
- Minister of music
- · Music editor
- Music librarian
- · Music supervisor
- Music therapist

- Performer
- Recording studio technician
- Retail music salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio teacher
- · Worship leader

Faculty

Beth Cram Porter, *Chair;* Associate Professor of Vocal Music. *Education:* B.M., Baylor University, 1984; M.A., Western Carolina University, 1996; voice student of Joyce Farwell. At Cedarville since 1997.

Roger O'Neel, Assistant Chair; Associate Professor of Worship. Education: B.M., Ouachita Baptist University, 1985; M.M., Choral Conducting, Southern Methodist University, 1987; M.M., Music Theory, Southern Methodist University, 1988; Ph.D., University of Texas at Austin, 1996. At Cedarville since 2002.

Connie Anderson, Assistant Professor of Piano Pedagogy. *Education:* B.A., Cedarville University, 1973; M.M., Wright State University, 1994. At Cedarville since 1999.

Lyle Anderson, Senior Professor of Music. *Education:* B.M.E., Cedarville University, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1977. At Cedarville since 1970.

John Chilcote, Assistant Professor of Music and Worship. *Education:* B.A., Ohio Weselyan University, 2000; M.A., Hope International University, 2007; M.Div., Hope International University, 2019. At Cedarville since 2020.

Bruce Curlette, Professor of Music. *Education:* B.S., Jacksonville State University, 1979; M.M., Eastman School of Music, 1981; clarinet student of D. Stanley Hasty; D.M.A., The Ohio State University, 1991; clarinet student of James M. Pyne. At Cedarville since 2001.

Carlos Elias, Professor of Music. *Education*: Artist Diploma, Duquesne University, Pittsburgh, 1999; B.M., Biola University, 1990; M.M., College-Conservatory of Music University of Cincinnati 1993. At Cedarville since 2013.

Austin Jaquith, Professor of Music Theory and Composition. *Education:* B.M., Cleveland Institute of Music, 2003; M.M., University of Houston, 2005; D.M.A., Indiana University, 2009. At Cedarville since 2009.

Chet Jenkins, Assistant Professor of Music. *Education:* B.A., Cedarville University, 1997; M.M. Ohio University, 2013; D.M.A., The Ohio State University, 2018. At Cedarville since 2017. **John Mortensen**, Professor of Music. *Education:* B.M.A., University of Michigan, 1988; piano student of Anne Koscielny and Raymond Hanson; M.M., University of Maryland, 1990; D.M.A., University of Maryland, 1994. At Cedarville since 1995. **Susan Plemons**, Assistant Professor of Worship. *Education*; B.M., Baylor University, 1984; M.M., University of South Florida, 1996. At Cedarville since 2013.

Mark Spencer, Associate Professor of Music. *Education:* B.A., Judson College, 1981; M.M., Southwestern Baptist Theological Seminary, 1984; D.M.A., Southwestern Baptist Theological Seminary, 1992; voice student of Jack Coldiron. At Cedarville since 1993.

Sandra Yang, Associate Professor of Music History, *Education:* B.A., University of California, Los Angeles, 1971; M.A., U.C.L.A., 1992; Ph.D., U.C.L.A., 1997. At Cedarville since 2009.

Emeriti

Charles Clevenger, Senior Professor Emeritus of Music. *Education:* B.A., Bob Jones University, 1974; piano student of Imogene Darling, Laurence Morton, Raymond Dudley, and Richard Morris; M.M., University of Cincinnati College-Conservatory of Music, 1976; D.M.A., University of Cincinnati College-Conservatory of Music, 1985. At Cedarville since 1982. *Michael DiCuirci*, Senior Professor Emeritus of Music. *Education:* B.M., University of Michigan, 1971; euphonium/ trombone student of Fred Snyder, Abe Torchinsky, and Glenn Smith; M.M., University of Michigan, 1977. At Cedarville since 1979.

David Matson, Professor Emeritus of Music History. *Education:* B.A., Cedarville University, 1960; graduate study, State College of Iowa, 1962–63; M.A., The Ohio State University, 1968; Ph.D., The Ohio State University, 1978. At Cedarville since 1965.

Charles Pagnard, Senior Professor Emeritus of Music. *Education:* B.M., Bowling Green State University, 1970; trumpet student of Sidney Mear, Richard Jones, Edwin Betts, and Ettore Chiudioni; M.M., Eastman School of Music, 1976; graduate study, University of Cincinnati College-Conservatory of Music, 1984. At Cedarville since 1977.

Adjunct Faculty

- · Lori Akins, flute
- Judy Bede, directed teaching
- Ryan Behan, piano
- Jim Cato, worship
- Sheridan Currie, viola
- Jackie Davis, harp
- Lisa Grove, oboe
- · Amy Hutchison, piano
- Anton Neumayr, string bass
- Gerald Noble, percussion
- · Charles Pagnard, trumpet
- Crystal Behan, voice
- Ed Supplee, pep band
- Cameron Voorhees, guitar
- Sean Vore, horn
- Brandon Waltz, worship

Department of Music and Worship Faculty







Composition

Statement of Purpose

The **composition major** prepares the student for a career that involves film and concert composition, arranging, music production, and music entrepreneurship. Students are prepared with a solid foundation of musicianship that encompasses theory and aural skills, conducting, and instrumental or vocal performance. This foundation is then built upon through intensive studies in composition and technology that prepare students to be composers of the 21st century.

Program Objectives

Upon completion of the B.M. degree in composition, students will be able to:

- Demonstrate significant achievement in core musical knowledge and skills.
- Perform proficiently on a primary instrument.
- Demonstrate an understanding of current music production and technology applications.
- Develop superlative compositional abilities through the creation of a large and varied portfolio of original compositions.

Students pursuing this major must complete the general education core.

The following requirements involve 74–82 semester hours:
Proficiencies0-6
Piano0-4
CLMU-1810 Piano Class I0-2
CLMU-1820 Piano Class II0-2
THMU-1010 Introduction to Music Theory and Aural Skills 0–2
Music Foundation and Skills27–28
CDMU-2600 Introduction to Conducting2
GMUS-1000 Music Philosophy and Aesthetics1
GMUS-1030 Recital and Program Attendance0
HLMU-2100 Jazz History: Music of the Multi-Culture
(or HLMU-3400 Global Music3)
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV 8
Select one of the following2
CDMU-3610 Choral Conducting2
CDMU-3620 Instrumental Conducting2
Music Contexts9
HLMU-2310 Introduction to Music Literature3
HLMU-3310, 3320 Music History I and II6
Music Performance10
PFMU-3100–3980 Large Ensemble2
PLMU-1000/4830 Private Lessons 6
PLMU-3920 Junior Composition Project1
*PLMU-4900 Senior Recital1
Music Composition28–29
CLMU-2850 Composition Seminar0
CLMU-2860 Composition Portfolio0
PLMU-1800, 2800, 3800, 4800 Music Composition 12
THMU-4100 Counterpoint3
THMU-4110 Form and Analysis
THMU-4130 Orchestration2
TYMU-2510 Introduction to Digital Music Production
TYMU-2520 Music Production Techniques
(or TYMU-2251 Music Technology3)
(or THMU-4140 Choral Arranging2)
TYMU-3520 Scoring for Digital Media3
*Capstone Course

Department of Music and Worship Composition

Composition Major Curriculum Summary

	0.4
General Education Proficiency Requirements	0–4
General Education Requirements	48–56
Composition Major Requirements	74–82
Electives	0–6
Total (minimum, not including proficiency)	128



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Composition

First year:
BTGE-1725 The Bible and the Gospel
CLMU-2850 Composition Seminar (both semesters)0
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GMUS-1000 Music Philosophy and Aesthetics
GMUS-1030 Recital and Program Attendance (both semesters)0 PFMU-XXXX Large Ensemble Performance0
PLMU-1800 Private Lesson in Composition
PLMU-XXXX Private Lessons
THMU-1210, 1220 Music Theory I and II6
THMU-1310, 1320 Aural Skills I and II4
TYMU-2510 Introduction to Digital Music Production3
LIT-2XXX Literature Elective
Quantitative Elective
Total
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
CDMU-2600 Introduction to Conducting
CLMU-2850 Composition Seminar (both semesters)
GMUS-1030 Recital and Program Attendance (both semesters)0 HLMU-2100 Jazz History: Music of the Multi-Culture2
(or HLMU-3400 Global Music3)
HLMU-2310 Introduction to Music Literature
PEF-1990 Physical Activity and Healthy Living2
PFMU-XXXX Large Ensemble Performance1
PLMU-2800 Music Composition2
PLMU-XXXX Private Lessons2
THMU-2210, 2220 Music Theory III and IV6
THMU-2310, 2320 Aural Skills III and IV
Total
Third year:
BTGÉ-3755 Theology I3
BTGE-3765 Theology II3
CDMU-3620 Instrumental Conducting
(or CDMU-3610 Choral Conducting
CLMU-2850 Composition Seminar (both semesters)0 GMUS-1030 Recital and Program Attendance (both semesters)0
GSS-1100 Politics and American Culture3
HLMU-3310, 3320 Music History I and II6
PFMU-XXXX Large Ensemble Performance
PLMU-3800 Music Composition4
PLMU-3920 Junior Composition Project1
TYMU-2520 Music Production Techniques3
(or TYMU-2251 Music Technology3)
(or THMU-4140 Choral Arranging2) TYMU-3520 Scoring for Digital Media
Biology Elective
History Elective
Total
Foundless
Fourth year: CLMU-2850 Composition Seminar (both semesters)0
CLMU-2860 Composition Portfolio
GMUS-1030 Recital and Program Attendance (both semesters)0
HUM-1400 Introduction to the Humanities
PFMU-XXXX Large Ensemble Performance
PLMU-XXXX Private Lessons2
PLMU-4800 Music Composition4
PLMU-4900 Senior Recital
THMU-4100 Counterpoint
THMU-4110 Form and Analysis
Physical Science Elective
Social Science/Global Awareness Elective
Elective
Total 30.5

Department of Music and Worship Keyboard Pedagogy

Keyboard Pedagogy

Statement of Purpose

The purpose of the Bachelor of Music degree in keyboard pedagogy is to thoroughly equip graduates to professionally teach students the art of piano playing. The program is designed to comprehensively address the needs of piano students of all ages and levels of proficiency.

Program Objectives

Through the keyboard pedagogy curriculum, students will be able to:

- Apply practical criteria in the evaluation of methods books.
- Implement group instruction methods in their teaching.
- Evaluate student progress through the establishment of educational goals and careful record keeping.
- Cope with performance anxiety and avoid physical injury.
- Identify the primary professional associations and periodicals that relate specifically to piano teaching.
- Demonstrate knowledge of business practices and organizational procedures necessary for the establishment of a professional piano studio.
- Communicate effectively in one-on-one teaching. Students pursuing this major must complete the general

education core.

The following requirements involve 75–82 semester hours: Proficiencies0-6 Piano......0-4 CLMU-1810 Piano Class I......0-2 CLMU-1820 Piano Class II......0-2 THMU-1010 Introduction to Music Theory and Aural Skills... 0-2 Music Foundation and Skills.....25-26 GMUS-1000 Music Philosophy and Aesthetics...... 1 (or HLMU-3400 Global Music......3) THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV...... 8 Music Contexts9 HLMU-2310 Introduction to Music Literature 3 HLMU-3310, 3320 Music History I and II......6 Music Performance......19 PFMU-3100-3980 Large Ensemble 4 *PLMU-4900 Senior Recital...... 1 Keyboard Pedagogy22 KPMU-4110, 4120 Directed Teaching III, and IV......4 KPMU-3150, 3160, 4150, 4160 Keyboard Pedagogy Seminar I, II, III, and IV8 Approved Music Elective2 *Capstone Course Keyboard Pedagogy Major Curriculum Summary 0

Reyboard Fedagogy Major Curriculum Summary	
General Education Proficiency Requirements	0–4
General Education Requirements	48–56
Keyboard Pedagogy Major Requirements	75–82
Electives	0–5
Total (minimum, not including proficiency)	128
. , , , , , , , , , , , , , , , , , , ,	

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

BTGE-1725 The Bible and the Gospel	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	1
GMUS-1030 Recital and Program Attendance (both semesters)	0
PEF-1990 Physical Activity and Healthy Living	2
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	4
THMU-1210, 1220 Music Theory I and II	
THMU-1310, 1320 Aural Skills I and II	4
Quantitative Elective	3
Total	
Second year:	
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
CDMU-2600 Introduction to Conducting	
GMUS-1030 Recital and Program Attendance (both semesters)	
HLMU-2100 Jazz History: Music of the Multi-Culture	2
(or HLMU-3400 Global Music	
HLMU-2310 Introduction to Music Literature	Ś
KPMU-2010, 2020 Keyboard Pedagogy I and II	6
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	
THMU-2210, 2220 Music Theory III and IV	
THMU-2310, 2320 Aural Skills III and IV	
Total	
Third year:	
BTGE-3755 Theology I	
BTGE-3765 Theology II	3
GMUS-1030 Recital and Program Attendance (both semesters)	
GSS-1100 Politics and American Culture	3
HLMU-3310 Music History I	
HEIVIO-33 TO IVIUSIC HISTORY I	
HLMU-3320 Music History II	3
	3 3
HLMU-3320 Music History II	3 3
HLMU-3320 Music History II	3 2 4
HLMU-3320 Music History II	3 2 4
HLMU-3320 Music History II	3 2 4 0
HLMU-3320 Music History II	3 2 4 0 4
HLMU-3320 Music History II	3 2 4 0 4 .3.5
HLMU-3320 Music History II	3 2 4 0 4 .3.5 3
HLMU-3320 Music History II	3 2 4 0 4 .3.5 3
HLMU-3320 Music History II	3 2 4 0 3 3
HLMU-3320 Music History II	3 4 4 4 .3.5 3 3
HLMU-3320 Music History II	3 4 4 3 3 3 3
HLMU-3320 Music History II	324033333333333
HLMU-3320 Music History II	3433333333333
HLMU-3320 Music History II	324033333333342
HLMU-3320 Music History II	324033333333342
HLMU-3320 Music History II	343333333334421
HLMU-3320 Music History II	34433333333342122
HLMU-3320 Music History II	34433333333421222222
HLMU-3320 Music History II	34433333333421222222
HLMU-3320 Music History II	343442122 3.53
HLMU-3320 Music History II	3244333333342122225

Department of Music and Worship Music

Music

Statement of Purpose

The **Bachelor of Arts in music degree** is designed for students with a strong interest in music and other academic areas. It is an ideal degree for musically talented students who plan to pursue graduate programs that will accept a bachelor's degree in any academic major, such as law, international studies, and music therapy. The approved elective credits within the major allow students to add specialized courses from any other area.

Program Objectives

Upon completion of the B.A. in music curriculum, students will be able to:

- Identify visually and aurally the building blocks of musical composition
- Formulate, articulate, and defend a philosophy of music based upon sound interpretation of biblical principles.
- Demonstrate facility in the use of music technology.
- Perform proficiently in private lessons and in a large ensemble.
- Research, plan, and perform/present a capstone senior recital or senior project.
- Value the functional role and stylistic diversity of music from various historical periods and cultures.

Course requirements involve 58-64 semester hours including	j :
Proficiencies	
Piano 0	
CLMU-1810 Piano Class I0-2	
CLMU-1820 Piano Class II0-2	
THMU-1010 Introduction to Music Theory and Aural Skills 0	
Music Foundation and Skills	16
GMUS-1000 Music Philosophy and Aesthetics	
GMUS-1030 Recital and Program Attendance	
THMU-1210, 1220, 2210 Music Theory I, II, and III	9
THMU-1310, 1320, 2310 Aural Skills I, II, and III	6
Music Contexts	9
HLMU-2310 Introduction to Music Literature	
HLMU-3310, 3320 Music History I and II	
Music Performance	
PFMU-3100-3980 Large Ensemble	
PLMU-1000/4830 Private Lessons	
Music Concentrations	
Primary Concentration (includes capstone course)	
Secondary Concentration	12
Select primary and secondary concentrations	
from the following:	
Jazz and Improvisation Concentration	12–13
HLMU-2100 Jazz History: Music of the Multi-Culture	
PFMU-3650 Chamber Ensemble	
PFMU-3980 Jazz Band	-
THMU-3120 Jazz Theory and Improvisation I	
THMU-3130 Jazz Theory and Improvisation II	
*PLMU-4920 Senior Project	1
Music Composition Concentration	12–13
CLMU-2800 Introduction to Composition	2
PLMU-2800-4800 Music Composition	
THMU-4130 Orchestration	
THMU-4140 Choral Arranging	
*PLMU-4920 Senior Project	1

Music History Concentration	12–13
HLMU-2100 Jazz History: Music of the Multi-Culture	2
HLMU-3400 Global Music	
HLMU-3910 Writing and Research in Music I	
HLMU-4910 Writing and Research in Music II	1
HLMU-4980 Special Topics in Music History	2
HLMU-3000/4000 elective	3
*PLMU-4920 Senior Project	1
Music Technology Concentration	12–13
TYMU-2251 Music Technology	3
TYMU-2510 Introduction to Digital Music Production	3
TYMU-2520 Music Production Techniques	3
TYMU-3520 Scoring for Digital Media	3
*PLMU-4920 Senior Project	1
Open Music Studies Concentration	12–13
HLMU-3910 Writing and Research in Music I	1
Electives (approved by advisor)	10
HLMU-4910 Writing and Research in Music II	10
*PLMU-4920 Senior Project	
Performance Studies Concentration-Instrumental	12_12
PFMU-3650 Chamber Ensemble	
PLMU-1000-4830 Private Lessons	
PLMU-3900 Junior Recital	
*PLMU-4900 Senior Recital	I
Performance Studies Concentration-Vocal	12 12
CLMU-1170 Diction for Singers I	12-13
(or CLMU-1180 Diction for Singers II	۰۰۰۰۰۰۰۰ ک
PFMU-3650 Chamber Ensemble	∠)
(or PFMU-3850 Opera Ensemble	I
PLMU-1000-4830 Private Lessons	1)
PLMU-3900 Junior Recital	
*PLMU-4900 Junior Recital	l
*PLMU-4900 Senior Recital	
Worship Concentration	12–13
BTAT-3730 Theology of Worship	3
THMU-1250 Contemporary Musicianship I	
WSHP-1010 Introduction to Worship Ministry	I
WSHP-1020 Introduction to Worship Technology	2
WSHP-2060 Music and the Arts in Worship	
WSHP-2200 Worship Field Experience	1
*PLMU-4920 Senior Project	1
*Capstone Course required only if primary concentration.	
Music Major Curriculum Summary	
General Education Proficiency Requirements	0_4
General Education Requirements	
Music Major Requirements	59_61
Electives	 2_22
Total (minimum, not including proficiency)	120
rotal (minimum, not including proficiency)	120

Department of Music and Worship Music

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Music

First year: BTGE-1725 The Bible and the Gospel
PLMU-1000/4830 Private Lessons
Second year: BTGE-2730 Old Testament Literature
Third year: BTGE-3755 Theology I
Fourth year: GMUS-1030 Recital and Program Attendance (both semesters)0 HUM-1400 Introduction to the Humanities



Department of Music and Worship Music

Suggested Three-Year Curriculum for a Major in Music Jazz and Improvisation/Open Music Concentration

Fall Year 1: BTGE-1725 The Bible and the Gospel 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GMUS-1000 Music Philosophy and Aesthetics 1 GMUS-1030 Recital and Program Attendance 0 PFMU-3650 Chamber Ensemble 1 PLMU-1000/4830 Private Lessons 1 THMU-1210 Music Theory I 3 THMU-1310 Aural Skills I 2 Total 17
Spring Year 1 BTGE-2730 Old Testament Literature 3 GMUS-1030 Recital and Program Attendance 0 LIT-2XXX Literature Elective 3 PEF-1990 Physical Activity and Healthy Living 2 PFMU-3650 Chamber Ensemble 1 PLMU-1000/4830 Private Lessons 1 THMU-1220 Music Theory II 3 THMU-1320 Aural Skills II 2 Elective 1 Total 16
Summer Year 1 BTGE-2740 New Testament Literature 3 GMUS-1030 Recital and Program Attendance 0 HUM-1400 Introduction to the Humanities 3 Physical Science Elective 3.5 Quantitative Elective 3 Electives 3 Total 15.5
Fall Year 2:
GMUS-1030 Recital and Program Attendance. 0 HLMU-2100 Jazz History-Music of the Multi Culture. 2 HLMU-3910 Writing and Research in Music I 1 PFMU-3100/3980 Large Ensemble 1 PFMU-3650 Chamber Ensemble 1 PLMU-1000/4830 Private Lessons 1 THMU-2210 Music Theory III. 3 THMU-2310 Aural Skills III. 2 Electives 5
GMUS-1030 Recital and Program Attendance

Fall Year 3.	
GMUS-1030 Recital and Program Attendance	0
HLMU-3310 Music History I	
HLMU-4910 Writing and Research in Music II	
PFMU-3980 Jazz Band	
PLMU-1000/4830 Private Lessons	
THMU-3120 Jazz Theory and Improvisation I	
MUS Electives	
Electives	
Total	
Spring Year 3:	
GMUS-1030 Recital and Program Attendance	
GMUS-1030 Recital and Program Attendance	
, ,	3
GMUS-1030 Recital and Program AttendanceHLMU-3320 Music History II	3 1
GMUS-1030 Recital and Program Attendance	1 1
GMUS-1030 Recital and Program Attendance	3 1 1
GMUS-1030 Recital and Program Attendance	3 1 1 1
GMUS-1030 Recital and Program Attendance	3 1 1 1 2

Graduate Program Pathway Option for Music

The Bachelor of Arts in music program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.



Department of Music and Worship Performance

Performance

Statement of Purpose

The purpose of the **Bachelor of Music degree** in performance is to prepare students for graduate school and careers in performance. The program is designed to offer the highest possible level of studio instruction and mentoring, opportunity for solo and ensemble performance, and general knowledge of the music literature of the performance area.

Program Objectives

A graduate of the Bachelor of Music in performance degree will:

- Display familiarity with the music of their instrument, including all essential music associated with their instrument.
- Communicate effectively about music performance from a theological perspective.
- Evaluate with professional awareness the important performers, recordings, institutions, and events that are significant to their instrument.
- Develop skills concerning the intricacies of the physical technique of playing their instrument, and be able to articulate this knowledge to others.
- Have the skills necessary to prepare for performance independent of outside teaching and assistance.

Students pursuing this major must complete the general education core.

The following requirements involve 75–82 semester hours: Proficiencies0-6 Piano......0-4 CLMU-1810 Piano Class I......0-2 CLMU-1820 Piano Class II......0-2 THMU-1010 Introduction to Music Theory and Aural Skills.. 0-2 Music Foundation and Skills30-31 GMUS-1000 Music Philosophy and Aesthetics...... 1 GMUS-1030 Recital and Program Attendance......0 (or HLMU-3400 Global Music3) THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12 THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV...... 8 Select one of the following2 CDMU-3610 Choral Conducting2 CDMU-3620 Instrumental Conducting2 Music Contexts9 HLMU-3310 Music History I......3 HLMU-3320 Music History II......3 Music Performance......22 CLMU-2750 Performance Seminar 0 CLMU-2760 Performance Portfolio......0 PFMU-3100-3980 Large Ensemble 6 PLMU-1000/4830 Private Lessons (in major instrument) 14 PLMU-3900 Junior Recital...... *PLMU-4900 Senior Recital...... 1 Choose one concentration from the following14 Instrumental Concentration......14 MUED-3750 Instrumental Pedagogy2 PFMU-3650 Chamber Ensemble (2 x 1 credit).....2 THMU-4130 Orchestration2 Select one of the following1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 1 CLMU-2230 String Literature 1 Approved Electives7

Piano Concentration	14
CLMU-2300 Keyboard Literature	2
CLMU-2310 Collaborative Piano (6 x 1 credit)	
Select one of the following	3
KPMU-2010 Keyboard Pedagogy I	3
KPMU-2020 Keyboard Pedagogy II	3
Approved Electives	
Vocal Concentration	
CLMU-1170, 1180 Diction for Singers I and II	
CLMU-3120 Vocal Literature	3
CLMU-3130 Opera and Oratorio Literature	3
PFMU-3850 Opera Ensemble (2 x 1 credit)	2
MUED-3730 Vocal Pedagogy	2
MUED-3730 Vocal Pedagogy	

Required Cognate: Proficiency in two different foreign languages, selected from French, German, Italian, and Spanish (Proficiency in each language may be satisfied by satisfactory completion of two years of the same high school foreign language or one semester of college-level foreign language.)

Performance Major Curriculum Summary

General Education Proficiency Requirements	0–4
General Education Requirements	48–56
Performance Major Requirements	75–82
Electives	0–5
Total (minimum, not including proficiency)	128



Department of Music and Worship Performance

A complete description of the general education requirements is found on page 24.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Vocal Performance

First vear: BTGE-1725 The Bible and the Gospel3 CLMU-2750 Performance Seminar (both semesters)0 COM-1100 Fundamentals of Speech......3 ENG-1400 Composition......3 GMUS-1000 Music Philosophy and Aesthetics1 GMUS-1030 Recital and Program Attendance (both semesters)......0 PEF-1990 Physical Activity and Healthy Living......2 PFMU-XXXX Ensemble Performance2 PLMU-XXXX Private Lessons2 THMU-1210, 1220 Music Theory I and II......6 THMU-1310, 1320 Aural Skills I and II......4 Quantitative Elective3 Total 32 Second year: BTGE-2730 Old Testament Literature......3 BTGE-2740 New Testament Literature3 CDMU-2600 Introduction to Conducting......2 CLMU-1170, 1180 Diction for Singers I and II.....4 CLMU-2750 Performance Seminar (both semesters)0 GMUS-1030 Recital and Program Attendance (both semesters)......0 HLMU-2100 Jazz History: Music of the Multi-Culture2 (or HLMU-3400 Global Music3) HLMU-2310 Introduction to Music Literature3 PLMU-XXXX Private Lessons4 THMU-2210, 2220 Music Theory III and IV6 THMU-2310, 2320 Aural Skills III and IV4 Third year: BTGE-3765 Theology II3 CDMU-3620 Instrumental Conducting......2 (or CDMU-3610 Choral Conducting.....2) CLMU-2750 Performance Seminar (both semesters)0 CLMU-3120 Vocal Literature......3 GMUS-1030 Recital and Program Attendance (both semesters)......0 HLMU-3310, 3320 Music History I and II......6 MUED-3730 Vocal Pedagogy2 PLMU-XXXX Private Lessons4 PFMU-3850 Opera Ensemble1 PLMU-3900 Junior Recital.....1 History Elective......3 CLMU-2750 Performance Seminar (both semesters)0 CLMU-2760 Performance Portfolio......0 GMUS-1030 Recital and Program Attendance (both semesters)......0 HUM-1400 Introduction to the Humanities......3 PFMU-XXXX Ensemble Performance2 PFMU-3850 Opera Ensemble1 PLMU-XXXX Private Lessons4 PLMU-4900 Senior Recital1 THMU-4110 Form and Analysis3 Social Science/Global Awareness Elective......3

Suggested Four-Year Curriculum for a Major in Instrumental Performance

First year:
BTGE-1725 The Bible and the Gospel3
CLMU-2750 Performance Seminar (both semesters)0
COM-1100 Fundamentals of Speech3
ENG-1400 Composition3
GMUS-1000 Music Philosophy and Aesthetics
GMUS-1030 Recital and Program Attendance (both semesters)0
PEF-1990 Physical Activity and Healthy Living2
PFMU-XXXX Ensemble Performance
PLMU-XXXX Private Lessons
THMU-1210, 1220 Music Theory I and II6
THMU-1310, 1320 Aural Skills I and II
LIT OVVV Literature Floating
LIT-2XXX Literature Elective
Quantitative Elective
Total
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
CDMU-2600 Introduction to Conducting2
CLMU-XXXX Instrumental Literature Elective1
CLMU-2750 Performance Seminar (both semesters)0
GMUS-1030 Recital and Program Attendance (both semesters)0
HLMU-2100 Jazz History: Music of the Multi-Culture2
(or HLMU-3400 Global Music3)
HLMU-2310 Introduction to Music Literature
PFMU-XXXX Ensemble Performance
PLMU-XXXX Private Lessons
THMU-2210, 2220 Music Theory III and IV6
THMU-2310, 2320 Aural Skills III and IV4
Total
10tal
Third year:
Third year: BTGE-3755 Theology I3
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I3
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: 3 BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXXX Ensemble Performance 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Ensemble Performance 2
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-XXXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Ensemble Performance 2 PLMU-XXXX Private Lessons 4
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Chamber Music 2 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3.5 History Elective 3.5 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 FPMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 3 PFMU-XXXX Ensemble Performance 2 PLMU-XXXX Private Lessons 4 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3.5 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 Music Elective <td< td=""></td<>
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXXX Ensemble Performance 0 PFMU-XXXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 3 PFMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 Music Elective <
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3.5 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 3 PFMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXXX Ensemble Performance 0 PFMU-XXXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 3 PFMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 Music Elective <
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CDMU-3620 Instrumental Conducting 2 (or CDMU-3610 Choral Conducting 2) CLMU-2750 Performance Seminar (both semesters) 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 GSS-1100 Politics and American Culture 3 HLMU-3310, 3320 Music History I and II 6 MUED-3750 Instrumental Pedagogy 2 PFMU-XXXX Ensemble Performance 0 PFMU-XXXX Private Lessons 4 PLMU-3900 Junior Recital 1 Biology Elective 3.5 History Elective 3.5 Total 32.5 Fourth year: CLMU-2750 Performance Seminar (both semesters) 0 CLMU-2760 Performance Portfolio 0 GMUS-1030 Recital and Program Attendance (both semesters) 0 HUM-1400 Introduction to the Humanities 3 3 PFMU-XXXX Ensemble Performance 2 PLMU-4900 Senior Recital 1 THMU-4110 Form and Analysis 3 THMU-4130 Orchestration 2 Music Elective <

Department of Music and Worship Performance

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Piano Performance

First year:	
BTGE-1725 The Bible and the Gospel	3
CLMU-2750 Performance Seminar (both semesters)	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMUS-1030 Recital and Program Attendance (both semesters)	۱
PEF-1990 Physical Activity and Healthy Living	2
PFMU-XXXX Ensemble Performance	2
PLMU-XXXX Private Lessons	
THMU-1210, 1220 Music Theory I and II	
THMU-1310, 1320 Aural Skills I and II	4
LIT-2XXX Literature Elective	
Quantitative Elective	
Total	32
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	
CDMU-2600 Introduction to Conducting	2
CLMU-2310 Collaborative Piano	
CLMU-2750 Performance Seminar (both semesters)	0
GMUS-1030 Recital and Program Attendance (both semesters)	0
HLMU-2100 Jazz History: Music of the Multi-Culture	
(or HLMU-3400 Global Music	
HLMU-2310 Introduction to Music Literature	
KPMU-2010 or 2020 Keyboard Pedagogy I or II	3
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons THMU-2210, 2220 Music Theory III and IV	
THMU-2310, 2320 Music Theory in and IV	
Total	
	• .
Third year:	_
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
(or CDMU-3610 Choral Conducting	
CLMU-2300 Keyboard Literature	<u>2)</u>
CLMU-2310 Collaborative Piano	2
CLMU-2750 Performance Seminar (both semesters)	
GMUS-1030 Recital and Program Attendance (both semesters)	
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I and II	6
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	
PLMU-3900 Junior Recital	
Biology Elective	.3.5
History Elective	
Total	32.3
Fourth year:	
CLMU-2310 Collaborative Piano	
CLMU-2750 Performance Seminar (both semesters)	
CLMU-2760 Performance Portfolio	
GMUS-1030 Recital and Program Attendance (both semesters) HUM-1400 Introduction to the Humanities	
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	
PLMU-4900 Senior Recital	2
	2 4
	2 4 1
THMU-4110 Form and Analysis	2 4 1
THMU-4110 Form and Analysis	2 1 3 3
THMU-4110 Form and Analysis	2 1 3 3
THMU-4110 Form and Analysis	2 1 3 3 .3.5 3





Department of Music and Worship Teacher Education Licensure Program

Teacher Education Licensure Program Bachelor of Music Education

Statement of Purpose

The **Bachelor of Music Education** prepares students to teach vocal, instrumental, or general music in grades K–12 in public and Christian schools. Two tracks, choral and instrumental, are available. The Bachelor of Music Education will provide the graduate with all the skills, knowledge, and competencies prerequisite for state certification and employment in music education.

Program Objectives

After completing a degree in the music education program at Cedarville, the student will:

- Demonstrate mastery of the grade/age level content and pedagogy related to Multi-Age Music Education.
- Demonstrate the ability to plan, instruct and assess students in a classroom setting.
- Identify and recall current trends, curricula, and methodologies used in music education.
- Articulate a working philosophy of music education.

The following requirements involve 95–101 (choral track) or 96–102 (instrumental track) semester hours:

Proficiencies0-	-6
Piano0–4	
CLMU-1810 Piano Class I0-2	
CLMU-1820 Piano Class II0-2	
THMU-1010 Introduction to Music Theory and Aural Skills 0-2	
Music Foundation and Skills28-2	29
CDMU-2600 Introduction to Conducting2	
GMUS-1000 Music Philosophy and Aesthetics1	
HLMU-3400 Global Music3	
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, and IV. 12	
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, and IV 8	
Choral majors also add:	
CDMU-3610 Choral Conducting2	
Instrumental majors also add:	
CDMU-3620 Instrumental Conducting	
CLMU-1860 Voice Class 1	
Music Contexts	9
HLMU-2310 Introduction to Music Literature	
HLMU-3310, 3320 Music History I and II6	
Music Performance	11
PFMU-3100-3980 Large Ensemble	
PLMU-1000/4830 Private Lessons 8	
PLMU-4900 Senior Recital1	
Music Education	15
GMUS-1030 Recital and Program Attendance0	
MUED-1000 NAfME 0	
MUED-3710 Music for Early Childhood	
MUED-3720 Music for Adolescent/Young Adult	
Choral majors also add:	
CLMU-1170 or 1180 Diction for Singers I or II2	
CDMU-3630 Choral Methods2	
MUED-2730 Wind and Percussion Methods for	
Music Educators2	
MUED-2900 Guitar Methods for Music Educators 1	
MUED-3730 Vocal Pedagogy2	
Instrumental majors also add:	
MUED-3910 Instrumental Administration	
Three of the following 6	
MUED-2870 Brass Methods for Music Educators2	
MUED-2910 Woodwind Methods for Music Educators2	
MUED-2930 String Methods for Music Educators2	
MUED-2950 Percussion Methods for Music Educators2	

Teacher Education	31
EDSE-3900 Music Education Field Experience	2
EDSP-2100 Exceptionalities and Behavior	2
EDUC-1000 The Education Profession	2
EDUC-1050 Preliminary Student Involvement	0
EDUC-2050 Teaching Diverse Learners	2
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	3
EDUC-3100 Philosophical Foundations of Education	3
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
*EDUC-4900 Student Teaching and Seminar-Multi-Age	12
*Capstone Course	

Music Education (Multi-Age) — Choral Major Curriculum Summary

Total (minimum, not including proficiency)	142
Music Education — Choral Major Requirements.	94–100
General Education Requirements	48–56
General Education Proficiency Requirements	0–4

Music Education (Multi-Age) — Instrumental Major Curriculum Summary

•	
General Education Proficiency Requirements	0–4
General Education Requirements	48–56
Music Education — Instrumental Major Requirements	95–101
Total (minimum, not including proficiency)	143



Department of Music and Worship Bachelor of Music Education

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Music Education Multi-Age

First year: BTGE-1725 The Bible and the Gospel COM-1100 Fundamentals of Speech EDUC-1000 The Education Profession EDUC-1050 Preliminary Student Involvement ENG-1400 Composition GMUS-1000 Music Philosophy and Aesthetics GMUS-1030 Recital and Program Attendance (both semesters) MUED-1000 NAfME (both semesters) PEF-1990 Physical Activity and Healthy Living PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons THMU-1210, 1220 Music Theory I and II THMU-1310, 1320 Aural Skills I and II Quantitative Elective	3 0 1 0 2 2
Choral Majors Add: CLMU-1170 or 1180 Diction for Singers I or II MUED-2900 Guitar Methods for Music Educators Choral Total	1
MUED-XXXX Instrumental Methods Electives	
Second year: BTGE-2730 Old Testament Literature	3 2 2 3 0 3 0
Total	35



Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
EDSE-3900 Music Education Field Experience2
GMUS-1030 Recital and Program Attendance (both semesters)0
GSS-1100 Politics and American Culture
HLMU-3310, 3320 Music History I and II6
MUED-1000 NAfME (both semesters)0
MUED-3710 Music for Early Childhood
MUED-3720 Music for Adolescent/Young Adults
PFMU-XXXX Ensemble Performance
PLMU-XXXX Private Lessons
History Elective3
LIT-2XXX Literature Elective
Choral Majors Add:
CDMU-3610 Choral Conducting
CDMU-3630 Choral Methods2
Choral Total35
Instrumental Majors Add:
CDMU-3620 Instrumental Conducting
MUED-3910 Instrumental Administration
Instrumental Total
100000000000000000000000000000000000000
Summer:
EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-
Age3
Fourth year:
EDUC-3100 Philosophical Foundations of Education3
EDUC-4900 Student Teaching and Seminar: Multi-Age
GMUS-1030 Recital and Program Attendance (both semesters)0
HUM-1400 Introduction to the Humanities3
MUED-1000 NAfME (both semesters)0
PFMU-XXXX Ensemble Performance0
PLMU-XXXX Private Lessons
PLMU-4900 Senior Recital1
Biology Elective
Physical Science Elective
Social Science Elective
0
Choral Majors Add:
MUED-2730 Wind and Percussion Methods for
Music Educators2
MUED-3730 Vocal Pedagogy2
Choral Total35
Instrumental Majors Add:
CLMU-1860 Voice Class1
MUED-XXXX Instrumental Methods Elective
Instrumental Total 34

Department of Music and Worship Worship

Worship

The **Bachelor of Arts in worship degree** is an interdisciplinary degree designed to help prepare students who are interested in careers in worship leadership and related fields. The mission of the worship program is "Equipping Worshipers to Serve". Core values of the B.A. in worship degree include:

Musical Emphasis

We value a core musical background for all worship students. We value contemporary music as the voice of our culture and will equip students to be musically and methodologically relevant in the "real world."

Theological Foundation

We value a strong theological foundation, grounded in biblical truth for all worship students. The Bible minor and required classes will emphasize a biblical foundation for worship ministry. *Interdisciplinary Nature*

We value interdisciplinary study in fields related to worship ministry. We value each student developing God-given talents and interests, resulting in an individualized degree tailored for each student.

Elective hours can be used to complete minors or to double major. Students pursuing this major must complete the general education core.

Program Objectives

Through the worship curriculum, students will be able to:

- Demonstrate an understanding of music theory by mastery of music theory concepts and analysis of contemporary music.
- Perform proficiently in voice and either piano or guitar in a worship setting.
- Formulate and articulate a theology of worship based on sound biblical principles and valid biblical interpretation.
- Evaluate and critique the content and appropriateness of any worship medium (music, drama, media, etc.) by employing one's theology of worship as a foundation for evaluation.
- Plan, produce, and lead theologically sound and edifying corporate worship experiences for the local church or parachurch organization.

The following requirements involve 59–66 semester hour		
Music	14–2	!1
Proficiencies (voice, either piano or guitar, and		
Theory/Aural Skills)	0–7	
CLMU-1860 Voice Class		
Piano		
CLMU-1810 Piano Class I0-		
CLMU-1820 Piano Class II0-	-2	
OR		
PLMU-1830 Contemporary Guitar	0–2	
THMU-1010 Introduction to Music Theory and		
Aural Skills		
PLMU-1000–4830 Private Lessons		
PFMU-3100–3980 Large Ensembles		
THMU-1250 Contemporary Musicianship I		
THMU-2250 Contemporary Musicianship II		
THMU-2260 Contemporary Musicianship III		
Worship		1
WSHP-1010 Introduction to Worship Ministry		
WSHP-1020 Introduction to Worship Technology		
WSHP-2060 Music and the Arts in Worship		
WSHP-2100 Worship Forum (every semester)		
WSHP-2200 Worship Field Experience		
WSHP-3100 Worship Practicum		
WSHP-3200 Worship Administration		
WSHP-4900 Worship Internship	9	

Theology	12
BTOT-3140 Psalms	
*BTHT-3340 Christian Theology 1: Bible, Trinity, God	
the Father	3
or BTHT-3350 Christian Theology 2: God the Son and	
God the Spirit	3
or BTHT-3360 Christian Theology 3: Humanity, Angels,	
and Salvation	3
or BTHT-3370 Christian Theology 4: The Church and	
Last Things	3
BTAT-3410 Discipleship	3
or BTAT-3400 Biblical Care and Counseling	
BTAT-3730 Theology of Worship	3
*The dual-listed 6000-level courses can be used by approval for the undergo	graduate
students.	

Students are required to take 12 class hours in fields that would be helpful in combination with worship studies. The specified fields are: business administration; Christian education; Christian ministries management; communication studies; broadcasting, digital media, and journalism; missions; music; philosophy and religion; preseminary; psychology; and theatre. Students must take at least six of these 12 hours outside of the department of music.

Specified Electives12

Worship Major Curriculum Summary

Proficiency Requirements	0–7
General Education Requirements	
Worship Major Requirements	
Electives	
Total (minimum, not including proficiency)	128



Department of Music and Worship Worship

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Worship

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and Healthy Living	2
PFMU-XXXX Large Ensemble Performance	
PLMU-XXXX Private Lessons	
THMU-1250 Contemporary Musicianship I	
WSHP-1010 Introduction to Worship Ministry	
WSHP-1020 Introduction to Worship Technology	
WSHP-2100 Worship Forum (both semesters)	0
LIT-2XXX Literature Elective	
Electives	
Total	32
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	
GSS-1100 Politics and American Culture	
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	
THMU-2250 Contemporary Musicianship II	
THMU-2260 Contemporary Musicianship III	2 2
WSHP-2060 Music and the Arts in Worship	2
WSHP-2100 Worship Forum (both semesters)	
WSHP-2200 Worship Field Experience	1
Quantitative Elective	
Social Science/Global Awareness Elective	3
Flective	7
Elective	
Total	
Total	32
Total Third year: BTGE-3755 Theology I	 32 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II	32 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32 3 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship (or BTAT-3400 Biblical Care and Counseling	3 3 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship (or BTAT-3400 Biblical Care and Counseling BTAT-3730 Theology of Worship	3333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship (or BTAT-3400 Biblical Care and Counseling BTAT-3730 Theology of Worship PFMU-XXXX Ensemble Performance	3 3 3 3 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	3233333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32333)320
Total Third year: BTGE-3755 Theology I	323333333
Total Third year: BTGE-3755 Theology I	323333333
Total Third year: BTGE-3755 Theology I	323333333
Total Third year: BTGE-3755 Theology I	323333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	3233333333333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32333332233333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32333332233333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	3233333030303133333333333333
Total Third year: BTGE-3755 Theology I	323333333330222233333333333333
Total Third year: BTGE-3755 Theology I	323333333330222233333333333333
Total	32333333333333333333333333333333333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32 33 33 33 33 33 33 33 33 33 33 33 33 3
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	323333333000222233333333333333333333333333333333333333
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32 33 33 33 35 33 35 33 35 33 35 33 35 33 35 33 35 35
Total Third year: BTGE-3755 Theology I BTGE-3765 Theology II BTAT-3410 Discipleship	32 33 33 33 35 33 35 33 35 33 35 33 35 33 35 33 35 35

Suggested Three-Year Curriculum for a Major in Worship

Fall Year 1. BTGE-1725 The Bible and the Gospel 3 ENG-1400 Composition 3 HUM-1400 Introduction to the Humanities 3 PFMU-XXXX Ensemble Performance 1 PLMU-XXXXX Private Lessons 1 WSHP-1010 Introduction to Worship Ministry 1 WSHP-2100 Worship Forum 0 Electives 3 Total 15
Spring Year 1. 3 BTGE-2730 Old Testament Literature
Summer Year 1. BTGE-2740 New Testament Literature
Fall Year 2: BTGE-3755 Theology I
Spring Year 2. BTAT-3410 Discipleship 3 (or BTAT-3400 Biblical Care and Counseling 3) BTAT-3730Theology of Worship 3 BTGE-3765 Theology II 3 PFMU-XXXX Ensemble Performance 0 PLMU-XXXX Private Lessons 2 THMU-2260 Contemporary Musicianship III 2 WSHP-2100 Worship Forum 0 WSHP-3200 Worship Administration 3 Total 16
Summer Year 2. 3 GSS-1100 Politics and American Culture. 3 Biology Elective. 3.5 History Elective. 3 Humanities Elective. 3 Elective. 3 Total 15

Department of Music and Worship Minors

Fall Year 3.	
BTHT-33XX Biblical History and Theology Elective	3
BTOT-3140 Psalms	3
PFMU-XXXX Ensemble Performance	0
WSHP-2100 Worship Forum	0
WSHP-3100 Worship Practicum	
Specified Elective	
Total	16
Spring Year 3:	
PFMU-XXXX Ensemble Performance	0
WSHP-2100 Worship Forum	0
WSHP-3100 Worship Practicum	1
WSHP-4900 Worship Internship	9
Electives	
Total	17

NOTE: Students must meet proficiencies for program. Proficiencies (voice, piano or guitar, and theory/aural skills = 0-7)

Graduate Program Pathway Option for Worship

The Bachelor of Arts in worship program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.





Minors

Music Minor

The **music minor** allows students with interests and abilities in music to build upon this background through formal music instruction. Students who minor in music should begin the program no later than their sophomore year.

Course requirements involve 16 semester hours.	
CDMU-2600 Introduction to Conducting	2
GMUS-1030 Recital and Program Attendance (2 semesters)	0
HUM-2430 Enjoyment of Music	3
PFMU-3100–3980 Large Ensemble	2
PLMU-1000/4830 Private Lessons	
*THMU-1010 Introduction to Music Theory	2
*THMU-1210 Music Theory I	3
*THMU-1310 Aural Skills I	

*Students in this minor are required to take these classes prior to private lessons.

Music Technology Minor

The **music technology minor** gives students important skills in digital music applications, including audio recording and editing, MIDI, digital live performance, synthesis, and composition for media.

Course requirements involve 16–17 semester hours.	
THMU-1010 Introduction to Music Theory	2
THMU-1210 Music Theory I	3
Or THMU-1250 Contemporary Musicianship I	2
TYMU-2510 Introduction to Digital Music Production	3
TYMU-2520 Music Production Techniques	3
TYMU-2251 Music Technology	3
TYMU-3520 Scoring for Digital Media	

Worship Minor

The **worship minor** is designed to help prepare students who are interested in careers in worship leadership and related fields.



School of Nursing

Mission Statement	174
Accreditation and Licensure	174
Admission	174
Progression	175
Probation	176
Removal From Nursing Major	176
Graduation	176
Financial Aid	176
Programs of Study	176

Cocurricular Opportunities	176
Technical Resources	176
Career Opportunities	176
Faculty	177
Clinical Activity Information	178
Nursing Course Requirements	178
Minor	
» Cross-Cultural Nursing Minor	180
School of Nursing Course Descriptions	292

Mission Statement

The School of Nursing models nursing as a ministry for Christ through education, service, and scholarship resulting in transformed lives.

Accreditation and Licensure

The Bachelor of Science in Nursing program at Cedarville University is accredited by the Commission on Collegiate Nursing Education (**www.ccneaccreditation.org**) and has full approval from the Ohio Department of Higher Education and Ohio Board of Nursing.

Admission

Students who wish to apply for admission to Cedarville University and major in nursing need a strong commitment to leading a godly lifestyle and learning ways to use nursing as ministry for Christ. Acceptance by Cedarville University does not guarantee acceptance into the nursing major. A college preparatory curriculum including four years of both mathematics and science (algebra, biology, and chemistry are required) provides the best academic preparation for the nursing major. An ACT composite score of 24 (or SAT composite of 1160, or CLT composite of 76) or higher is required to enter the program as a nursing major.

A select number of students who have not achieved these scores, but who have met the above curricular requirements and are otherwise eligible for admission to the University, may be admitted as pre-nursing students. It is the responsibility of pre-nursing students to obtain a change of major form in order to change their major to nursing if they earn an unrounded cumulative GPA of 3.0 by the end of freshman year at Cedarville University.

- Nursing major ACT: 24 or higher; SAT: 1160 or higher; CLT: 76 or higher.
- Pre-Nursing (if does not have ACT of 24, SAT of 1160, or CLT of 76 take courses in freshman nursing plan; change major to nursing when earns unrounded cumulative GPA of 3.0)
- Only nursing majors may take 2000 level and above nursing courses
- · Only nursing majors may enroll in clinical courses.
- Admission to the School of Nursing is contingent upon available clinical/classroom space.



Admission Criteria for Transferring from Another Nursing Program

Every year the Cedarville University School of Nursing receives transfer requests from students who are enrolled in various nursing programs around the country. Admission to the School of Nursing is contingent upon available clinical/classroom space. These are the requirements that must be met in order for students to transfer from another nursing program into the Cedarville University School of Nursing B.S.N. program.

- Students applying for transfer at Checkpoint #1 (end of first freshman semester / prior to NSG-1050 and NSG-1055) must meet all Checkpoint #1 requirements.
- Students applying for transfer at Checkpoint #2 (end of freshman year or equivalent) must meet all Checkpoint #2 requirements.
- Students applying for transfer at Checkpoint #3 (mid sophomore year or equivalent) must meet all Checkpoint #3 requirements except the requirement that they have no more than four remaining general education/Bible classes at the start of their junior year.
- Students applying for transfer at Checkpoint #4 (end sophomore year or equivalent) must meet all Checkpoint #4 requirements.
- If a transfer candidate has received a failing grade or WF (withdraw fail) in two previous nursing courses, they will not be admitted to the program.
- A transfer candidate who has a single failure in any previous nursing course will result in the student being admitted on academic probation.
- If a transfer candidate is admitted on academic probation, they will be required to meet all academic probation standards until graduation.
- 8. Students may request transfer credit for the following nursing courses by submitting their transcript and course syllabus:
 - a. NSG-1000 (Member of Nursing Profession)
 - b. NSG-1050/1055 (Health Promotion and Wellness/ Experiences in Health Promotion)
 - c. NSG-2000 (Roles in Disease Prevention)
 - d. NSG-2050 (Roles in Disease Management) See details below (#9)
 - e. NSG-3110 (Pharmacology)
 - f. NSG-3930 (Nursing Research and EBP)
- Students may request transfer credit for NSG-2050 (Roles in Disease Management) by submitting their transcript and course syllabus, and passing skills validation per course requirements.
- 10. All students who transfer into the Cedarville University B.S.N. program must take:
 - a. NSG-2800 (Special Topics in Nursing) (1–3 credits) required for progression. To be taken during first semester at Cedarville University for those entering at Checkpoint #2 or after.
 - b. NSG-3000 (Nursing Care of III Adults)
 - c. NSG-3010 (Care of Women and Newborns)
 - d. NSG-3030 (Care of Children)
 - e. NSG-3050 (Behavioral and Mental Health Care)
 - f. NSG-4000 (Care of Populations)
 - g. NSG-4030 (Complex Care Management)
 - h. NSG-4020 (Leadership and Management)
 - i. NSG-4060 (Transition Into Practice)
 - j. NSG-4950 (Seminar in Nursing)

School of Nursing Progression

Progression

Students must fulfill academic, nonacademic, and technical requirements in order to progress in the nursing program. In addition, students must receive a positive recommendation from the faculty of the School of Nursing each semester.

Checkpoint #1

- · End of freshman fall semester
- Student must have an unrounded cumulative GPA of 2.5 or higher to progress to NSG-1050 and 1055 for spring semester of freshman year.
- If GPA is less than (<) 2.5:
 - · Change major
 - · Five-year plan
- · Meets all academic requirements

Checkpoint #2

- End of freshman year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to sophomore-level (2000) nursing courses.
- If GPA less than (<) 3.0:
 - · Change major
 - Five-year plan
 - **Request for extension of GPA audit (see nursing student handbook)
- · Meets all academic requirements

Checkpoint #3

- A transcript audit will be performed early spring semester of sophomore year to verify:
 - · Student is on track for progression to junior-year plan
 - Student has earned C- or higher in all nursing, psychology, and science courses
 - Anything less than C- must be repeated and may be repeated one time only
 - Student has no more than four remaining general education/Bible courses at start of junior-year clinical courses
 - Meets all academic requirements
- Students will be permitted to progress into 3000-level clinical courses depending on availability of faculty and clinical sites. In the event numbers of eligible students exceed clinical site availability, registration for 3000-level clinical courses will be ranked by GPA.

Checkpoint #4

- End of Sophomore year; after May session grades have been submitted
- Students must have an unrounded cumulative GPA of 3.0 or higher to progress to 3000-level clinical courses.
- If GPA less than (<) 3.0:
 - Change major
 - Five-year plan
 - ** Request for extension of GPA audit (see nursing student handbook)
- · Meets all academic requirements

Academic Requirements

- 1. Maintain GPA as follows:
 - End of First Semester GPA 2.5 to progress to NSG-1050 and NSG-1055.
 - b. End of freshman year unrounded cumulative GPA of 3.0 or higher
 - End of sophomore year unrounded cumulative GPA of 3.0 or higher
 - d. End of fall semester of junior year (or first 3000-level clinical course) through to graduation, unrounded cumulative GPA 2.5 or higher
- Any course for which the minimal grade is not achieved must be repeated.
 - a. A C- or higher is required in all nursing, psychology, and science courses:
 - CHEM-1000 Principles of Chemistry
 - ii. GBIO-1010 Basics of the Cell
 - iii. GBIO-2010 Human Anatomy and Physiology I
 - iv. GBIO-2015 Human Anatomy and Physiology II
 - v. GBIO-2210 Principles of Microbiology
 - vi. PYCH-1600 General Psychology
 - vii. PYCH-2610 Statistics
 - b. Students may repeat a course one time only.
- 3. Earn a weighted exam average of >75% in all nursing courses that have two or more exams. The final exam will be part of the weighted exam average in determining passing or failing a course. If a student achieves an exam average less than 75%, but an overall grade greater than 75%, the student will be given a D+ in the course. If a student achieves an overall course grade less than 75%, the student will be given the overall course grade earned.
- A student receiving less than C- in a nursing course will fail the course
 - A failing grade in two 2000-level or higher nursing courses in the same or subsequent semesters will result in removal from the program.
 - A single failure in any 2000-level or higher nursing course will result in student being placed on academic probation.
 - c. A student will not be removed from academic probation. After a first nursing course failure, student will be on probation until another nursing course failure resulting in removal from the program, or until successful completion of the program.
- 5. Any prerequisite course taken at another institution must be transferred to Cedarville University and posted on the student's Cedarville University transcript by the end of the first full week of classes in order to remain in the nursing course for which the prerequisite was required. If a prerequisite course is not posted on the student's Cedarville University transcript by this deadline, the student will be required to withdraw from that nursing course immediately. Transfer courses are shown as credit (K) on the transcript and do not affect GPA.
- Students must meet all clinical objectives and fulfill all other clinical requirements.

Nonacademic Requirements

Students must practice the characteristics of empathy, integrity, respect, self-confidence, self-motivation, stewardship, teamwork, diplomacy, time management, dependability, and tolerance. Faculty reserves the right at any time to enact probation or remove students from the nursing major who exhibit unprofessional, immoral, illegal, or unethical behavior, or who compromise the safety of self or others.

School of Nursing Probation

Technical Standards Requirements

Students must demonstrate ability to follow technical standards: physical/neurological, motor, communication, judgement, and social/behavioral/emotional coping skills.*

*Fully described in the nursing student handbook.

Probation

When a student fails to meet one or more of the specified academic, nonacademic, or technical criteria the status of that student will be changed to probation.

Removal From Nursing Major

A student will be removed from the major for the following reasons:

- Failure to meet academic, nonacademic, technical, or clinical requirements while on probation.
- Demonstration of behavior that is not consistent with professional standards concerning health, safety, ethics, and behavior as specified by the Ohio Board of Nursing and the nursing student handbook.
- Second 2000-level or higher nursing course failure or violation of nonacademic/technical requirements.

Readmission when a student has been removed from the nursing major may be considered only under extreme circumstances and provided the student has been out of the nursing major for at least one calendar year.

Graduation

Candidates for the B.S.N. degree must complete the required 129 semester hours, earn a grade of C- or better in all nursing courses, maintain a GPA of 2.5 or higher, register for the NCLEX-RN examination, apply for state licensure, and meet University requirements for graduation.



Financial Aid

Federal Nursing Student Loans are available to qualified students who have been admitted to the nursing program. Some scholarships are available through endowments, although primarily offered to nursing upperclassmen. Information is available at **cedarville.edu/finaid**.

Programs of Study

Cedarville's nursing program leads to a Bachelor of Science in Nursing (B.S.N.) degree. Nursing students may also elect to earn a minor in cross-cultural nursing.

Cocurricular Opportunities Nursing Honor Society (NHS)

The Nursing Honor Society is an organization comprised of junior and senior nursing students whose grades rank in the top 35 percent of their class. Induction into this organization signifies academic excellence and provides unique opportunities to participate in academic enrichment, networking events, and professional development. From its initial launch in 2016, the organization has grown to induce and maintain approximately 50 members annually. NHS plans to become an official charter under the acclaimed research organization, Sigma Theta Tau International (STTI), in the near future.

Student Nurses Association (SNA)

The Student Nurses Association promotes spiritual growth and professional development for nurses and service for the community. Membership is open to all nursing students.

Alpha lota Alpha (AIA) Men in Nursing

The vision and mission of AIA is to have a Christlike influence on the nursing profession and to mentor male nursing students who desire to live and practice nursing guided by Christ's example. All male nursing students are eligible to enroll.

Cedarville University Emergency Medical Services

CU EMS is a volunteer ambulance service run and manned entirely by students from Cedarville University who are EMTs or paramedics.

Disaster Preparedness

Students in the School of Nursing have the opportunity to participate in disaster preparedness initiatives within the local community.

School of Nursing Committee Service

The faculty of the School of Nursing encourage student representation and participation in governance of the school. Placement on committees is an important right that provides a student voice in the School of Nursing. Student representation and participation is encouraged in the B.S.N. Curriculum and Assessment Committee and the School of Nursing Faculty organization Connections Committee.

Technical Resources

- · State-of-the-art high-fidelity simulation center
- Moderate fidelity clinical nursing and practice centers

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Nursing graduates obtain positions in the following settings: medical centers, public health departments, home health agencies, clinics, nursing homes, schools, work sites, mental health facilities, and mission fields.

School of Nursing Faculty

Faculty

Angelia Mickle, Dean; Associate Professor of Nursing. Education. A.A.S. Nursing, Central Carolina Community College, 1991; B.S.N., Indiana Wesleyan University, 1999; M.S.N., Indiana Wesleyan University, 2008. D.N.P., University of Tennessee, 2013. Post Master's Certificate, Psychiatric Mental Health Nurse Practitioner, University of Cincinnati, 2017. At Cedarville since 2008.

Suzanne Lefever, Assistant Dean of Undergraduate Programs; Associate Professor of Nursing. Education: B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001. Kimberly Higginbotham, Assistant Dean, Director of Graduate

Nursing Programs; Associate Professor of Nursing. Education: B.S.N., Cedarville University, 1993; M.S.N., University of Virginia, 2000; D.N.P., Vanderbilt University, 2017. At Cedarville since 2000. Carolyn Barnett, Associate Professor of Nursing. Education: L.P.N., Lewis Wilson Technological Center, 1979; B.S.N., Cedarville University, 1986; M.S.N., University of Phoenix, 2006; Global Public Health Nursing Certificate, 2019. At Cedarville since 1997.

Linda Cave, Assistant Professor of Nursing. *Education:* B.S., University of Northern Colorado, 1981; M.S., University of Colorado Health Sciences Center, 1983. At Cedarville since 1989. **Sharon Christman**, Professor of Nursing. *Education:* B.S.N., Cedarville University, 1992; M.S., The Ohio State University, 1995; A.N.P., The Ohio State University, 2000; Ph.D., The Ohio State University, 2003. At Cedarville since 1997.

Kristi Coe, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1995; M.S., The Ohio State University, 2011; M.L.I.S., Kent State University, 2019. At Cedarville since 2011. Sarah Compton, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 2011; M.S.N., Western Governor's University, 2017. At Cedarville since 2017.

Elizabeth Delaney, Associate Professor of Nursing. *Education:* B.S. N., Wright State University, 1988; M.S., Wright State University, 1992; M.S. FNP, Wright State University, 1999; D.N.P., The Ohio State University, 2017. At Cedarville since 2012. Clifford Fawcett III, Associate Professor of Nursing. *Education:* B.S.N., Cedarville University, 1988; M.Ed., University of Virginia, 1989; M.S.N., University of Delaware, 1997; D.N.P., University of Toledo, 2020. At Cedarville since 2010.

Jason Grimm, Assistant Professor of Nursing. *Education:* B.S.N., University of Oklahoma, 1999; M.S., University of Maryland, 2008; D.N.P., Texas Christian University, 2016. At Cedarville since 2019. **Chu-Yu Huang**, Professor of Nursing. *Education:* A.D.N., Foo Yin Nursing Junior College of Nursing, Taiwan, 1989; B.S.N., University of Dubuque, 1992; M.S., The Ohio State University, 1995; Ph.D., The Ohio State University, 2001. At Cedarville since

Nate Kincaid, Assistant Professor of Nursing. *Education:* B.S.N., Wright State University, 2006; M.S.N., Grand Canyon University, 2018. At Cedarville since 2019.

Mark Klimek, Associate Professor of Nursing. *Education:* A.A.S. Nursing, Youngstown State University, 1974; B.S.N., University of Virginia, 1977; M.S.N., Wayne State University, 1979; graduate study, Wayne State University, 1987. At Cedarville since 1983. **Scott Long**, Assistant Professor of Nursing. *Education:* A.S., Ohio University-Chillicothe, 2004; B.S.N., Ohio University, 2007; M.S., Wright State University, 2017 Adult-Gero Acute Care Nurse Practitioner. At Cedarville since 2019.

Jenna Orme, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1996; M.S.N., Cedarville University, 2019. At Cedarville since 2019.

Anne Russell, Associate Professor in Nursing. *Education:* Diploma Nursing, Community Hosp School of Nursing, 1972; B.S.N., Xavier University, 1986; M.S.N., University of Pennsylvania, 1987; Ph.D., Kent State University, 2008. At Cedarville since 2018.

Lisa Smithers, Assistant Professor of Nursing. *Education:* B.S., Wright State University, 1991; B.S.N., Wright State University, 2000; M.S.N., The Ohio State University, 2004. At Cedarville since 2016

Rebecca Wagner, Associate Professor of Nursing. *Education:* B.S.N., University of Delaware, 1977; M.S.N., University of Phoenix, 2007; Ed.D, Liberty University, 2014. At Cedarville since 2014

Katherine Webb, Assistant Professor in Nursing. *Education:* B.S.N., Cedarville University, 2008; M.S., Clinical Nurse Specialist, Wright State University, 2016. At Cedarville since 2016.

Technical Support Staff

Karen Callan, Coordinator of Nursing Laboratory Facilities. *Education:* B.S.N., Cedarville University, 1985. At Cedarville since 1992.

Rhonda Dodson, B.S.N. Program Advisor. *Education:* B.S.N., Sharon General Hospital School of Nursing, 1980; Project Management Professional Certificate, 2018. At Cedarville since 2019.

Rhonda Smith, Compliance Advisor for B.S.N. Student Success. *Education:* B.S.N., Lynchburg College, 1988; M.S.N. Chamberlain University, 2018. At Cedarville since 2000.

Emeriti

Irene Alyn, Distinguished Professor Emerita of Nursing. Education: B.A., Taylor University, 1962; Diploma, Cook County School of Nursing, 1962; M.S.N., University of Illinois, 1965; Ph.D., University of Illinois, 1972. At Cedarville 1981–2007.

Lois Baker, Senior Professor Emerita of Nursing. *Education:* Diploma, Blodgett Memorial Medical Center School of Nursing, 1974; B.R.E., Grand Rapids Baptist College, 1975; B.S.N., Nazareth College, 1982; M.S.N., University of Cincinnati, 1984; Ph.D., Wayne State University, 1991. At Cedarville 1984–2014. Carolyn Carlson, Distinguished Professor Emerita of Nursing. *Education:* B.S., Capital University, 1959; M.S., U.C.L.A., 1962; M.A., University of Colorado, 1972; Ph.D., University of Colorado, 1972. At Cedarville 1988–2007.

Janet Conway, Senior Professor Emerita of Nursing. *Education:* Diploma, Hackley Hospital School of Nursing, 1965; B.S.N., Coe College, 1976; M.S., University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; Ph.D., University of Texas, 1988. At Cedarville 1982–2013.

Judith Shrubsole, Associate Professor Emerita of Nursing *Education:* Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; B.Sc.N., University of Western Ontario, 1968; M.S., D'Youville College, 1992; Ph.D., Rush University, 2003. At Cedarville 1992–2010.

Clinical Activity Information Facilities

All clinical activity is conducted under the supervision of the Cedarville University School of Nursing faculty. The program utilizes a number of community resources including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physician's offices.

Age Requirement

Students must be 18 years old prior to the start date of the clinical experience in their first clinical course.

Clinical Requirements

Students are required to have a background check, current CPR/BLS certification, uniforms, equipment, photo identification, and transportation for clinical experiences. Nursing students are required to furnish proof of private health insurance.

Health Requirements

Prior to clinical nursing courses, students must provide documentation of the following, and must upload to Castle Branch profile:

- a) Complete physical examination. Obtain the physical examination form from the School of Nursing office before having your physical examination. The physical exam must be dated on or after August 1 of first semester in nursing program.
- b) Childhood immunizations. All immunizations (contact nursing office for list) must be complete and up-to-date.
- c) Negative 2-step Mantoux test followed by annual Tb testing. Clinical agencies require a negative chest x-ray in the event of a positive TB skin test.
- d) Tetanus booster or Tdap (within last 10 years). Clinical sites require documentation of TDap prior to starting clinical experience.
 - e) Hepatitis B vaccine series and Hepatitis B titer
 - f) Influenza vaccine
- g) Proof of current health insurance coverage. All students enrolled in clinical courses must have current health insurance coverage. Any injury or medical care received at a clinical site is the responsibility of the student and will be charged to the student healthcare insurance.
- h) Other documentation as requested. The School of Nursing may request further documentation when a student's ability to practice according to acceptable and prevailing standards of safe nursing care is uncertain.

Additional Required Program Expenses (estimated)

Year 1 and 2: \$500-\$2000 (laptop is required, uniforms, clinical equipment, CPR/BLS certification, immunizations, physical exam, background check, transportation expenses, academic resources) Year 3: \$350-\$650 (immunization updates, CPR recertification,

transportation expenses)
Year 4: \$800–\$1200 (Licensure application, NCLEX-RN registration, background check, immunizations undates

registration, background check, immunizations updates, transportation expenses)



Nursing Course Requirements

In addition to completing the general education requirements, nursing majors must take the following courses. These requirements are divided into two segments, *support cognate requirements and nursing major requirements*.

The support cognate requirements, many of which satisfy general education requirements, include:

CHEM-1000 Principles of Chemistry	4
GBIO-1010 Basics of the Cell	
GBIO-2010 Human Anatomy and Physiology I	4
GBIO-2015 Human Anatomy and Physiology II	4
GBIO-2210 Principles of Microbiology	4
PYCH-1600 General Psychology	3
PYCH-2610 Statistics	

The nursing major requirements involve 71 semester hours including:

including:	
NSG-1000 Member of Nursing Profession	2
NSG-1050 Health Promotion and Wellness	3
NSG-1055 Experiences in Health Promotion	1
NSG-2000 Roles in Disease Prevention	4
NSG-2050 Roles in Disease Management	4
NSG-3000 Care of III Adults	6
NSG-3010 Nursing Care of Women and Newborns	6
NSG-3030 Care of Children	6
NSG-3050 Behavioral and Mental Healthcare	6
NSG-3110 Pharmacology	
NSG-3930 Nursing Research and Evidence-Based Practice	
NSG-4000 Care of Populations	6
NSG-4020 Nursing Leadership/Management	6
NSG-4030 Complex Care Management	
NSG-4060 Transition Into Practice	
*NSG-4950 Seminar in Nursing	3
*Capstone Course	

Nursing Major Curriculum Summary

Other General Education Requirements	35
Nursing Major Requirements	71
Required Cognates	23
Total (minimum, not including proficiency)	129



School of Nursing Nursing Course Requirements

A complete description of the general education requirements is found on page 24.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Nursing

First year:	
BTGE-1725 The Bible and the Gospel	3
BTGE-2730 Old Testament Literature	
CHEM-1000 Principles of Chemistry	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GBIO-1010 Basics of the Cell	
GBIO-2010 Human Anatomy and Physiology I	
HUM-1400 Introduction to the Humanities	
NSG-1000 Member of Nursing Profession	
NSG-1050 Health Promotion and Wellness	
NSG-1055 Experiences in Health Promotion	1
PYCH-1600 General Psychology	3
Total	
Second year:	
BTGE-2740 New Testament Literature	
BTGE-3755 Theology I	3
GBIO-2015 Human Anatomy and Physiology II	4
GBIO-2210 Principles of Microbiology	4
GSS-1100 Politics and American Culture	
NSG-2000 Roles in Disease Prevention	
NSG-2050 Roles in Disease Management	
NSG-3110 Pharmacology	
PEF-1990 Physical Activity and Healthy Living	o
DVCLL 0610 Statistics	۷
PYCH-2610 Statistics	
Total	33
Third year:	
BTGE-3765 Theology II	3
LIT-2XXX Literature Elective	
NSG-3000 Care of III Adults	_
NSG-3010 Nursing Care of Women and Newborns	
NSG-3030 Care of Children	
NSG-3050 Behavioral and Mental Healthcare	
NSG-3930 Nursing Research and Evidence-Based Practice	
Total	33
Fourth year:	
NSG-4000 Care of Populations	6
NOC 4000 Newsiter Leadership (Management	٥
NSG-4020 Nursing Leadership/Management	ხ
NSG-4030 Complex Care Management	6
NSG-4060 Transition Into Practice.	
NSG-4950 Seminar in Nursing	
History Elective	
Total	30



Suggested Three-Year Curriculum for a Major in Nursing

Fall Year 1:	
BTGE-1725 The Bible and the Gospel	3
CHEM-1000 Principles of Chemistry	
ENG-1400 Composition	
GBIO-1010 Basics of the Cell	1
GBIO-2210 Principles of Microbiology	4
NSG-1000 Member of Nursing Profession	2
Total 1	
Spring Year 1	
BTGE-2730 Old Testament Literature	
COM-1100 Fundamentals of Speech	
GBIO-2010 Human Anatomy and Physiology I	
NSG-1050 Health Promotion and Wellness	
NSG-1055 Experiences in Health Promotion	1
PYCH-1600 General Psychology	
Total 1	7
Cummar Vaar 1	
Summer Year 1 BTGE-2740 New Testament Literature	2
HUM-1400 Introduction to the Humanities	3
NSG-2000 Roles in Disease Prevention	
PEF-1990 Physical Activity and Healthy Living	2
PYCH-2610 Statistics	
Total 1	5
Fall Year 2:	
BTGE-3755 Theology I	3
GBIO-2015 Human Anatomy and Physiology II	4
GSS-1100 Politics and American Culture	
NSG-2050 Roles in Disease Management	
NSG-3110 Pharmacology	
Total 1	
Spring Year 2.	
BTGE-3765 Theology II	
NSG-3010 Nursing Care of Women and Newborns	
NSG-3030 Care of Children	
NSG-3930 Nursing Research and Evidence-Based Practice	3
Total1	8
Summer Year 2.	
LIT-2XXX Literature Elective	Q
NSG-3000 Care of III Adults	
NSG-3050 Behavioral and Mental Healthcare	
Total	
Ισται	9
Fall Year 3.	
NSG-4000 Care of Populations	6
	6
History Elective	3
Total 1	
Oracle and Version O	
Spring Year 3:	_
NSG-4020 Nursing Leadership/Management	6
NSG-4060 Transition Into Practice	
NSG-4950 Seminar in Nursing	
Total 1	15

School of Nursing Minor

Minor

Cross-Cultural Nursing Minor

Students anticipating service in intercultural or international settings may choose an emphasis in cross-cultural nursing.

Course requirements involve an additional 16 semester hours

selected from:

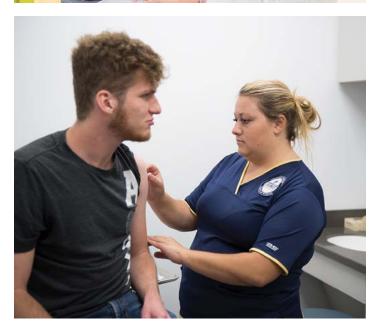
BTPA-2260 World Religions3
One course selected from3
ANTH-1800 Cultural Anthropology3
BTAT-3470 Cross-Cultural Ministry3
PYCH-1800 Cross-Cultural Psychology3
One course selected from3
BTAT-2400 Introduction to Evangelism3
BTAT-3200 Introduction to Missions: Theology and History 3
BTAT-3410 Discipleship3
BTAT-3450 Contemporary World Missions3
BTAT-3510 Introduction to Urban Missiology3
NSG-2200 Cross-Cultural Interactions1
*NSG-4200 Culture and Health3
Credits selected from3
NSG-3200 Cross-Cultural Nursing Internship1-3
NSG-4800 Independent Study1-2
*Crosslisted as an honor's seminar

Crosslisted as an honor's seminar.











Admission/Preferred Admission	182
Career Opportunities	183
Faculty	183
School of Pharmacy	184

la	

>>	Bachelor of Science in Pharmaceutical	
	Sciences	18
Sch	nool of Pharmacy Course Descriptions	29

School of Pharmacy Admission/Preferred Admission

Admission/Preferred Admission

The Bachelor of Science in Pharmaceutical Sciences (B.S.P.S.) degree curriculum includes courses in the professional Doctor of Pharmacy (Pharm.D.) degree curriculum, which are only accessible to students who have been admitted to the Pharm.D. program (unless an exception is granted by the School of Pharmacy). The B.S.P.S. degree curriculum includes all of the courses required for admission to the Cedarville University Doctor of Pharmacy program. The final course in the B.S.P.S. degree curriculum is typically completed during the spring semester of the first professional (P1) year in the Doctor of Pharmacy program.

Students intending to pursue a career in pharmacy - thus, pursue a Pharm.D. degree – should choose pharmaceutical sciences as their major. NOTE: Failure to be granted admission to the Pharm.D. program (which would occur during the academic year prior to the 1st professional (P1) year in the Pharm.D. program), or be granted an exception to complete the B.S.P.S. by the School of Pharmacy in the absence of such admission, will result in an inability to complete this degree.

Undergraduate students at Cedarville University in the pharmaceutical sciences major may compete for Preferred Admission to the Pharm.D. program as early as their senior year in high school and continuing throughout their undergraduate studies. Preferred Admission is awarded to a select number of students who have demonstrated the aptitudes and skills necessary for successful pursuit of a career in pharmacy. This status reserves a seat for the student in the class size-limited Pharm.D. program, associated with a specific School-established start date in the Pharm.D. program. Students with Preferred Admission status are exempt from competing against other applicants for a seat in the program. The granting of Preferred Admission status involves two steps.

First, students obtain admission to the University. Second, students compete for preferred admission to the School of Pharmacy. That competition begins with an invitation by the Pharmacy Admissions Committee to apply for Preferred Admission to the School of Pharmacy. Those invitations are based upon the following criteria:

- 1. Declared interest in pharmacy
- 2. Academic curriculum
- 3. Cumulative GPA (high school or collegiate)
- ACT composite and subscores of at least 23; SAT subscores of 570 or higher; or CLT composite of 74 (for high school students)

The Pharmacy Admissions Committee begins inviting students to apply by the first week of October. The application process involves scheduling an interview with the Pharmacy Admissions Committee. Interviews typically begin in mid-November and continue until all Preferred Admission seats are filled. Final selection is based upon performance in the interview and on the essay.

Students who do not wish to compete for preferred admission or who do not qualify for preferred admission as a new student may still take the B.S.P.S. curriculum and apply for Preferred Admission, or make direct application to the Pharm.D. program, later in their academic journey. The Admissions Committee considers applications of undergraduate students for Preferred Admission at the end of each academic year.

Preferred Admission Continuation Requirements

In order to continue with Preferred Admission status, students must meet the following requirements:

 Maintain a cumulative undergraduate GPA of at least 3.00. For purposes of Preferred Admission, the School of Pharmacy calculates the GPA using a courserepeat and grade-replacement policy that considers the repeated course grade in place of the original course grade, regardless of when such occurred during the undergraduate experience (i.e., any undergraduate course may be repeated for this purpose). Note, this Preferred Admission policy does not affect the student's official transcript – the policies for which are established and managed by the Registrar.

Students who do not achieve a 3.00 GPA according to these policies will be subject to the following actions related to their Preferred Admission status:

- Conditional Status: Applied to student failing to achieve a 3.00 cumulative GPA after their first undergraduate semester at Cedarville University.
- Probation Status: Applied to student failing to achieve a 3.00 cumulative GPA after their first undergraduate year at Cedarville University.
- Loss of Preferred Admission Status: Occurs if student fails to achieve a 3.00 cumulative GPA after two years of undergraduate study at Cedarville University.

Note: All status decisions are at the discretion of the Admissions Committee; students who do not hold Preferred Admission status may continue to enroll in the B.S.P.S. degree curriculum with an aim toward regaining Preferred Admission status and/or applying directly to the Pharm.D. program at the appropriate time.

2. Earn a minimum grade of "C" in all courses identified as prerequisites for admission to the Pharm.D. program (see Graduate Academic Catalog). Students may repeat any course for which a "C" was not earned. Exceptions to this requirement are applied to select two-semester sequence courses (General Chemistry, Organic Chemistry, Human Structure and Function) in which students may continue with a C- in either semester of the sequence as long as they earn a grade of at least C+ in the complementary course of the sequence.

All prerequisite and application requirements for the Pharm.D. program are found in the Graduate Academic Catalog.

Financial Aid

B.S.P.S. students benefit from all scholarship programs available to other Cedarville University students. For students continuing into the professional Pharm.D. program (completing their B.S.P.S. degree as part of their professional studies) after three years of undergraduate study at Cedarville University, the University aid will continue to be available through the first professional year.



School of Pharmacy Career Opportunities

Career Opportunities

The demand for pharmacists appears to be strong for many years to come. Current shortages as well as changes and advances in science and healthcare will create abundant opportunities for pharmacy graduates. These opportunities may include:

- Clinical specialist in cardiology, oncology, nutrition, infectious disease, diabetes mellitus, psychiatry, etc.
- · Community pharmacist
- · Compounding pharmacist
- Consultant pharmacist in geriatrics, palliative care, etc.
- Hospital pharmacist
- · Long-term care pharmacist
- · Managed care pharmacist
- · Nuclear pharmacist
- Pediatrics pharmacist

Faculty

Aleda Chen, *Interim Dean;* Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2006; M.S., Purdue University, 2009; Ph.D., Purdue University, 2011. At Cedarville since 2011.

Jeffrey Bates, Associate Dean; Associate Professor of Pharmacy Practice. Education: B.S., Ferris State University, 1991; Pharm.D., Ferris State University, 2007; At Cedarville since 2016.

Department of Pharmacy Practice

Justin Cole, *Interim Chair*, *Pharmacy Practice*; Associate Professor of Pharmacy Practice. *Education*: Pharm.D., Ohio Northern University, 2006. At Cedarville since 2016.

Douglas Anderson, Professor of Pharmacy Practice. *Education:* B.S., Pharmacy, University of Oklahoma, 1988; Pharm.D., University of Oklahoma, 1992. At Cedarville since 2009. **Juanita Draime**, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Cedarville University, 2016. At Cedarville

Marty Eng, Professor of Pharmacy Practice. *Education:* Pharm.D., University of Maryland, Baltimore School of Pharmacy, 2000. At Cedarville since 2012.

Thad Franz, *Vice Chair of Experiential Programs*. Associate Professor of Pharmacy Practice. *Education:* B.S., Pharmaceutical Science, The Ohio State University, 2003; Pharm.D., The Ohio State University, 2005. At Cedarville since 2012.

Melody Hartzler, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2009. At Cedarville since 2010.

Alexandra Hintz, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., University of Charleston, 2015. At Cedarville since 2018.

Jeff Huston, *Director*, *Pharmacy Practice Lab*; Associate Professor of Pharmacy Practice. *Education*: B.S., Pharmacy, Ohio Northern University, 1990; Pharm.D., Shenandoah University, 2018. At Cedarville since 2010.

Zach Jenkins, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Northeast Ohio Medical University. At Cedarville since 2013.

Emily Laswell, Associate Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2012. At Cedarville since 2013.

Brenda Pahl, *Director, Experiential Programs;* Assistant Professor of Pharmacy Practice. *Education:* B.S., Ohio Northern University, 1991; Pharm.D., The Ohio State University, 2007. At Cedarville since 2015.

David Peters, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D., Ohio Northern University, 2016. At Cedarville since 2017.

Bethany Sibbitt, Assistant Professor of Pharmacy Practice. *Education:* Pharm.D, Cedarville University, 2016. At Cedarville since 2017.

Nathanael Smith, Assistant Professor of Pharmacy Practice. Education: B.S.P.S., Cedarville University, 2014; PharmD., Cedarville University, 2017. At Cedarville since 2018. Anna Staudt, Instructor of Pharmacy. Education: Pharm.D, Cedarville University, 2017. At Cedarville since 2017.

Andrew Straw, Assistant Professor of Pharmacy Practice. *Education*: Pharm.D., Ohio Northern University, 2014. At Cedarville since 2015.

Department of Pharmaceutical Sciences

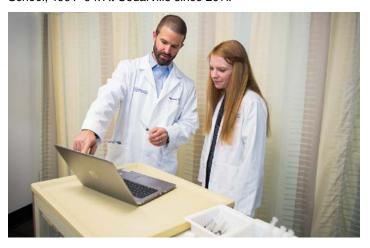
Samson Amos, Chair; Associate Professor of Pharmaceutical Sciences. Education: B.Pharm., Ahmadu Bello University, Nigeria, 1989; M.Sc., University of Jos, Nigeria, 1998; Ph.D., University of Nigeria, 2002. At Cedarville 2013.

Melissa Beck, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Ashland University, 1995; Ph.D., University of Michigan, 2001. At Cedarville since 2013.

Denise Jean-Louis, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., University of the West Indies, 1999; Ph.D., University of the West Indies, 2005; Postdoctoral Fellow, Department of Medicinal Chemistry, University of Iowa/University of Kansas, 2006–2008; Postdoctoral Fellow, Specialized Chemistry Center, University of Kansas, 2008–2010. At Cedarville since 2012.

Elisha Injeti, Associate Professor of Pharmaceutical Sciences. *Education:* B.S., Andhra University, 1995; M.S., Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; Ph.D., Loma Linda University, 2008. At Cedarville since 2009.

Rocco Rotello, Associate Professor of Pharmaceutical Sciences. *Education:* B.A., Chadron State College, 1983; M.S., University of Nebraska Medical School, 1985; Ph.D., University of Colorado Medical School, 1991; Postdoctoral Fellow, Harvard Medical School, 1991–94. At Cedarville since 2011.



School of Pharmacy Mission

Cedarville University is a Christ-centered learning community equipping students for lifelong leadership and service through an education marked by excellence and grounded in biblical truth. The School of Pharmacy develops exceptional pharmacy practitioners focused on meeting the physical, emotional, and spiritual needs of patients through servant leadership. The school pursues innovative, ethical solutions to health-related issues in diverse populations through collaborative teaching, research, and practice.

Values

Character—Regarding character as the foundation for appropriate decisions, compassionate care, and clear perspectives, the school considers the development of godly character as paramount in the lives of its students.

Global Focus—The school embraces a global perspective to its impact, endeavoring to equip graduates for service locally, regionally, nationally, and internationally, maintaining a particular sensitivity to the underserved.

Ethics-The school advances behavior, practice, and research consistent with the truth of the Scriptures and example of Christ.

Collaboration—Though structured into distinct administrative and academic units, the school pursues collaborative relationships and activities within the school, among other units of the university, and with other organizations outside of the university, exemplifying to students the value and effectiveness of working together to achieve worthwhile goals.

Innovation—The school promotes and celebrates the discovery of creative solutions and approaches to issues and problems that challenge the delivery of effective patient care. Recognizing continuous innovation as a quality found in effective organizations today, the school actively integrates contemporary topics and practices into the curriculum.

Leadership Development—Regarding influence as the essence of leadership and desiring our graduates to be influential in their personal and professional lives, the school pursues opportunites to help its students develop and apply their leadership skills.

Regional Accreditation

The University is accredited by the Higher Learning Commission. The Higher Learning Commission has approved the University to award the Doctor of Pharmacy degree.

Cedarville University School of Pharmacy's Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503, 312/664-3575; FAX 312/664-4652, website acpe-accredit. org.



Bachelor of Science in Pharmaceutical Sciences

This degree serves as the foundation for advanced study in pharmacy or the pharmaceutical sciences as well as career opportunities in pharmacy and the pharmaceutical industry.

Course requirements involve 123 semester hours including:
Biblical Education15
BTGE-1725 The Bible and the Gospel3
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
BTGE-3755 Theology I3
BTGE-3765 Theology II
Communication6
COM-1100 Fundamentals of Speech
ENG-1400 Composition
Humanities9
HUM-1400 Introduction to the Humanities3
LIT-2XXX Literature Elective
Humanities Elective
Physical Education2
PEF-1990 Physical Activity and Healthy Living2
Social Sciences and History9
GSS-1100 Politics and American Culture3
History Elective3
Social Science/Global Awareness Elective
Cognates47
BIO-1110 Introduction to Biology
BIO-2210 Microbiology
BIO-2250 Cell Biology
CHEM-1110, 1120 General Chemistry I and II
CHEM-3510, 3520 Organic Chemistry I and II
GBIO-2010, 2015 Human Anatomy & Physiology I and II 8
GBIO-3350 Principles of Immunology3
MATH-1700 Calculus and Dynamical Systems for Life Science4
PHYS-1010 College Physics I4
(or PHYS-2110 General Physics I4)
Pharmaceutical Sciences35
PPHR-1011 Profession of Pharmacy—Introduction to Public
Health1
PPHR-1012 Profession of Pharmacy—History and Issues 1
PPHR-2013 Profession of Pharmacy—Careers I
PPHR-2014 Profession of Pharmacy—Careers II
*PHAR-6110 Introduction to Pharmacy
*PHAR-6111 Research Design and Methodology
*PHAR-6112 Introduction to Self-Care
*PLIAD 0101 Dhawsaay Drastica Lab L
*PHAR-6121 Pharmacy Practice Lab I
*PHAR-6122 Pharmacy Practice Lab II
*PHAR-6130 Medicinal Biochemistry
*PHAR-6131 Pharmaceutical Sciences5
*PHAR-6132 Integrated Medicinal Chemistry
and Pharmacology5
*PHAR-6134 Pharmacokinetics and Biopharmaceutics 4
*PHAR-6137 Immunology, Immunotheraphy, and
Pharmacogenomics 4
*The advanced professional pharmacy course descriptions can be found in the
graduate catalog.
gg.
Pharmaceutical Sciences Major Curriculum Summary
Proficiency Requirements0–4
General Education Requirements41
Pharmaceutical Sciences Major Requirements35
Cognate Requirements
General Electives5
Total (minimum, not including proficiency)128

School of Pharmacy Bachelor of Science in Pharmaceutical Sciences

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Pharmaceutical Sciences - B.S.

First year: BTGE-1725 The Bible and the Gospel	
Second year: BTGE-2740 New Testament Literature 3 BTGE-3755 Theology I 3 BIO-2250 Cell Biology 4 CHEM-3510 Organic Chemistry I 4 CHEM-3520 Organic Chemistry II 4 GBIO-2010 Anatomy and Physiology I 4 HUM-1400 Introduction to the Humanities 3 PPHR-1011 Profession of Pharmacy - Intro to Public Health 1 Humanities Elective 3 Social Science/Global Awareness Elective 3 Total 32	
Third year: BTGE-3765 Theology II 3 BIO-2210 Microbiology 4 GBIO-2015 Anatomy and Physiology II 4 GBIO-3350 Principles of Immunology 3 GSS-1100 Politics and American Culture 3 PHYS-1010 College Physics I 4 (or PHYS-2110 General Physics I 4) PPHR-1012 Profession of Pharmacy - History and Issues 1 PPHR-3460 Advanced Physiology for Pharmacy 3 LIT-2XXX Literature Elective 3 History Elective 3 Elective 2 Total 33	
Fourth year: *PHAR-6110 Introduction to Pharmacy	

*Note: The advanced professional pharmacy curriculum is described in the Graduate Catalog and available upon request from pharmacy admissions.



A complete description of the general education requirements is found on page 24.

Suggested Three-Year Curriculum Accelerated Pathway for a Major in Pharmaceutical Sciences - B.S.

Fall Year 1: BTGE-1725 The Bible and the Gospel
Spring Year 1. BTGE-2730 Old Testament Literature
Summer Year 1. BTGE-2740 New Testament Literature
Fall Year 2. BTGE-3755 Theology I 3 BIO-2250 Cell Biology 4 CHEM-3510 Organic Chemistry I 4 GBIO-2015 Anatomy and Physiology II 4 PPHR-1011 Profession of Pharmacy—Intro to Public Health 1
Spring Year 2. BIO-2210 Microbiology
Summer Year 2. BTGE-3765 Theology II 3 GSS-1100 Politics and American Culture 3 LIT-2XXX Literature Elective 3 PPHR-3460 Advanced Physiology for Pharmacy 3 Humanities Elective 3 Electives 2
Fall Year 3.*PHAR-6110 Introduction to Pharmacy
Spring Year 3. *PHAR-6122 Pharmacy Practice Lab II

*Note: The advanced professional pharmacy courses and descriptions can be found in the graduate catalog.



Department of Psychology

Mission Statement	187
Personal Requirements	187
Department Requirements	187
Programs of Study	187
Cocurricular Opportunities	187
Career Opportunities	187
Faculty	188
Major	
» Psychology	189
Pathways to a Graduate Degree	
» Graduate Program Pathway Option for	
Psychology	190

Minor	
» Psychology Minor	191
» Addictions and Chemical Dependency	
Minor	191
» Child and Family Studies Minor	191
» Comprehensive Counseling Minor	191
» Cross-Cultural Psychology Minor	191
» Health Psychology and Public Health	
Minor	191
» Neuropsychology Minor	191
» Psychological Research Minor	191
Department of Psychology	
Course Descriptions	294

Department of Psychology Mission Statement

Mission Statement

The Cedarville University Department of Psychology seeks to:

- Develop understanding of biblical content that has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
- Provide an analysis of the person from physical, emotional, rational, and spiritual levels.
- Aid students in their personal adjustment to everyday life through an understanding of human behavior.
- Prepare students for graduate study in psychology and related areas.
- Train students desiring to use counseling in vocational ministry and in biblical counseling contexts.
- Introduce students to the work world through internships, Christian ministries, guest lecturers, and advisement.
- Provide courses in psychology necessary for teacher certification.

Personal Requirements

A psychology major or minor is one who is interested in learning about the holistic well-being of individuals, families, and human relationships in society with a reconciliatory goal (2 Cor. 5:18–20). Such knowledge is applicable personally, relationally, and corporately either in clinical or ministry settings.

Department Requirements

All psychology majors must obtain a cumulative 2.0 GPA or higher in their major for graduation.

Programs of Study

The Department of Psychology offers a Bachelor of Arts degree with a major or a minor in psychology. For those majoring in psychology, each student chooses at least one concentration from the following:

- Addictions and Chemical Dependency
- · Child and Family Studies
- · Comprehensive Counseling
- Cross-Cultural Psychology
- · Health Psychology and Public Health
- Interdisciplinary Studies
- Neuropsychology
- Occupational Therapy
- · Psychological Research

The psychology program is particularly useful to students who wish to earn a minor field of study at Cedarville, earn a double major, or take a sequence of courses in preparation for graduate school.

Cocurricular Opportunities

Psychology majors have the opportunity to present their scholarly work and papers at various academic and professional venues. For example, students have presented at the Ohio Undergraduate Psychology Research Conference, Ohio Psychological Association Annual Conference, Christian Association for Psychological Studies International Conference, and Association for Psychological Science Annual Conference.

Students can join the academic organization Psi Kappa Theta (PKT), whose mission is to build unity in the psychology department and connect students to each other and their professors. They host educational and social events for students interested in psychology.



Technical Resources

Psychology students are able to conduct researches and data analyses using, for example, the Statistical Package for the Social Sciences (SPSS), biofeedback instruments and programs, psychological assessment inventories, and to engage in real or stimulated experiments and projects to enhance learning.

Career Opportunities

The Cedarville University Department of Psychology has a strong track record in seeing alumni placed in quality graduate psychology and counseling programs. In addition, graduates of the psychology major find ready placements in human service agencies after graduation. Careers pursued by psychology majors include:

- Author
- Behavior specialist M/R populations
- Business-professionals
- Chaplain/pastor/minister
- · Child therapist
- Child life specialist
 Callege saupagler
- College counselor
- College professor/administrator •
- Correctional institution counselor
- Counselor in local church
- Crisis pregnancy center director
- Dean of men/women
- Forensic psychologist
- Geriatric center counselor
- Guidance counselor
- Health psychologist in a hospital

- High school psychology teacher
- · Industrial psychologis
- Marriage and family therapis
- Medical doctor
- Missions agency counselor
- Occupational therapists
- Physician assistants
- Private practice
- Psychologist (clinical)
- School psychologist
- Social agency counselor
- State hospital counselorSubstance abuse
- counselor
- · Many more

Department of Psychology Faculty

Faculty

Luke Tse, *Chair*; Professor of Psychology. *Education:* B.A., Embry-Riddle Aeronautical University, 1991; M.Div., New Orleans Baptist Theological Seminary, 1995; Ph.D., New Orleans Baptist Theological Seminary, 2000. Licensed Professional Counselor (LPC); Licensed Independent Marriage and Family Therapist (LIMFT); National Certified Counselor (NCC). At Cedarville since 2001

Kristin DeWitt, Professor of Psychology. *Education*: B.A., Clearwater Christian College, 1987; M.A., Liberty University, 1992; M.A., Argosy University, Tampa, 2002; Psy.D., Argosy University, Tampa, 2005; Licensed Psychologist (FL). At Cedarville University since 2015.

Charles Dolph, Senior Professor of Psychology. *Education:* B.A., Cedarville University, 1974; M.Ed., Georgia State University, 1982; Ph.D., Georgia State University, 1982. Licensed Psychologist (OH). At Cedarville since 1979.

Michael Firmin, Distinguished Professor of Psychology. Education: B.A., Calvary Bible College, 1983; M.A., Calvary Theological Seminary, 1985; M.S. and Ph.D., Bob Jones University, 1987, 1988; M.A., Marywood University, 1992; Ph.D., Syracuse University, 2000. National Certified Counselor (NCC); Licensed Psychologist (OH). At Cedarville since 1998. Betsy Linnell, Assistant Professor of Psychology. Education: B.A., Cedarville University, 2000; M.S., University of Dayton, 2013; Licensed Supervising Professional Clinical Counselor (OH); Licensed Special Education Teacher, LD & DH K-12; Licensed Elementary Education Teacher, Prek-8. At Cedarville since 2014. Chao Liu, Assistant Professor of Psychology. Education: B.A., Beijing Normal University, 2009; M.A., University of Maine, 2013; Ph.D., Oklahoma State University, 2018. At Cedarville since 2018. Felisha Younkin, Assistant Professor of Psychology. Education: B.A. Miami University, 2007; M.S., The Ohio State University, 2010; Ph.D., The Ohio State University, 2013; Licensed Independent Marriage and Family Therapist (OH). At Cedarville since 2016.





Emeriti

Robert Abbas, Professor Emeritus of Psychology. *Education:* B.M., Northwestern College, 1959; B.A., Wartburg College, 1962; M.A., University of Northern Colorado, 1965; Ph.D., University of Missouri at Columbia, 1972. Licensed Psychologist (OH). At Cedarville since 1971.

Stanley Ballard, Professor Emeritus of Psychology. *Education:* Graduate, Moody Bible Institute, 1954; Th.B., Baptist Bible College, 1956; Th.M., Dallas Theological Seminary, 1964; M.S., North Texas State University, 1965; Ph.D., North Texas State University, 1971. At Cedarville from 1965–2001.

Milton Becknell, Professor of Psychology. *Education:* B.A., University of North Texas, 1973; B.S.N., Texas Christian University, 1977; M.S.N., University of Texas at Austin, 1980; Ph.D., University of Southern Mississippi, 1989. Diplomate, American Board of Professional Psychology in Clinical Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.

Chi-en Hwang, Professor Emerita of Psychology. *Education:* B.S., National Taiwan University, 1977; M.A., University of Iowa, 1980; Ph.D., University of Iowa, 1986. At Cedarville since 1991.





Department of Psychology Psychology

Psychology

The psychology major provides students with general exposure to the field of psychology in preparation for graduate study in psychology and related fields or a number of other human service positions.

Course requirements involve 54–56 credits, including 39 semester credits of psychology core courses and an additional 15-17 semester hour track:

comodor mour traom	
Psychology Core Courses	39
PYCH-1600 General Psychology	
PYCH-2600 Human Development: Lifespan	. 3
PYCH-2610 Statistics	. 3
PYCH-2640 Abnormal Psychology	. 3
PYCH-2650 Learning and Memory	. 3
PYCH-3610 History and Systems of Psychology	. 3
PYCH-3620 Psychology and Christianity	. 3
PYCH-3690 Social Psychology	. 3
PYCH-3730 Research Methods	
PYCH-3900 Neurophysiological Psychology	. 3
PYCH-4640 Psychology Comprehensive Review	. 3
*PYCH-4990 Psychology Internship	. 3
Professional Issues Block	
PYCH-1000 Orientation to Psychology1	
PYCH-1010 Writing in APA1	
PYCH-1020 Graduate School and Career Preparation1	
*Capstone Course	

PYCH-1020 Graduate School and Career Preparation	
*Capstone Course	
Select one of the following concentrations	
Addictions and Chemical Dependency	
PYCH-2840 Concepts of Chemical Dependency	
PYCH-3000 Addictions	
PYCH-3660 Professional Counseling	
PYCH-3670 Group Dynamics	
PYCH-3901 Medications and Behavior	
Child and Family Studies	15
PYCH-3660 Professional Counseling	3
PYCH-3680 Counseling Couples and Families	
PYCH-3701 Counseling Adolescents	
PYCH-4700 Counseling Children	
Minimum of 3 credits selected from:	3
PYCH-3130 Intimate Relationships3	
PYCH-3420 Human Sexuality3	
PYCH-3710 Adult Development and Aging3	
Comprehensive Counseling	
PYCH-3660 Professional Counseling	3
PYCH-3670 Group Dynamics	
PYCH-3680 Counseling Couples and Families	3
PYCH-3750 Psychological Testing	3
PYCH-4400 Counseling Skills	3
Cross-Cultural Psychology	15
PYCH-1800 Cross-Cultural Psychology	3
PYCH-3740 Qualitative Research	
**Study abroad credits	9
-	

**Students must complete the required internship at an international site. It is strongly recommended that students also minor in one of the language studies.

strongly recommended that students also minor in one of the language studie	S
Health Psychology and Public Health 15	
PYCH-2850 Psychology of Adjustment3	
PYCH-3000 Addictions3	
PYCH-3380 Health Psychology3	
PYCH-3901 Medications and Behavior3	
Choose a minimum of 3 credits selected from:	
GBIO-2010 Human Anatomy and Physiology I4	
GBIO-2210 Principles of Microbiology4	
MAHE-3030 Nutrition3	
NSG-1050 Health Promotion and Wellness3	
NSG-4000 Care of Populations6	
NSG-4200 Culture and Health3	
PPHR-1011 Profession of Pharmacy-	
Intro to Public Health1	
PPHR-4280 Introduction to Health	
Behavior and Beliefs2	
PYCH-3760 Cognitive Neuroscience3	
PYCH-4950 Psychology Thesis3	
Interdisciplinary Studies 15	
PYCH-XXXX Electives6	
Non-PYCH Electives9	
Neuropsychology15	
PYCH-3750 Psychological Testing3	
PYCH-3760 Cognitive Neuroscience3	
PYCH-3770 Experimental Design3	
PYCH-3901 Medications and Behavior3	
Choose one from the following3	
PYCH-3660 Professional Counseling3	
PYCH-4950 Psychology Thesis3	
Occupational Therapy 17	
ALHL-2000 Medical Terminology3	
GBIO-2010 Human Anatomy and Physiology I4	
GBIO-2015 Human Anatomy and Physiology II4	
PYCH-3710 Adult Development and Aging3	
SOC-1300 Sociology3	
Psychological Research15	
PYCH-3720 Psychology of Personality3	
PYCH-3740 Qualitative Research3	
PYCH-3750 Psychological Testing3	
PYCH-3770 Experimental Design3	
PYCH-4950 Psychology Thesis3	
sychology Major Curriculum Summary	
roficiency Requirements0-	_4
other General Education Requirements45-5	50

Ps

Total (minimum, not including proficiency)) 128
Electives	19–29
Psychology Major Requirements	54-56
Other General Education Requirements	45–53
Proficiency Requirements	



A complete description of the general education requirements is found on page 24.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for	а
Major in Psychology	

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and Healthy Living	
PYCH-1000 Orientation to Psychology	
PYCH-1010 Writing in APA	1
PYCH-1020 Graduate School and Career Preparation	
PYCH-1600 General Psychology	3
Biology Elective	
History Elective	
Total	
Opposition	
Second year: BTGE-2730 Old Testament Literature	2
BTGE-2740 New Testament Literature	
PYCH-2600 Human Development: Lifespan	3
PYCH-2610 Statistics	
PYCH-2640 Abnormal Psychology	
PYCH-2650 Learning and Memory	3
Humanities/Global Awareness Elective	
LIT-2XXX Literature Elective	
Total	
Third year:	0
BTGE-3755 Theology I BTGE-3765 Theology II	
PYCH-3690 Social Psychology	
PYCH-3730 Research Methods	
PYCH-3900 Neurophysiological Psychology	3
Concentration Requirements	9
Electives	-
Total	32
Fourth year:	
PYCH-3610 History and Systems of Psychology	3
PYCH-3620 Psychology and Christianity	3
PYCH 4000 Psychology Comprehensive Review	
PYCH-4990 Psychology Internship	
Total	



Suggested Three-Year Curriculum for a Major in Psychology		
Fall Year 1: BTGE-1725 The Bible and the Gospel 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 PYCH-1000 Orientation to Psychology 1 PYCH-1600 General Psychology 3 Elective 3 Total 16		
Spring Year 1 3 BTGE-2730 Old Testament Literature 3 PEF-1990 Physical Activity and Healthy Living 2 PYCH-1010 Writing in APA 1 PYCH-1020 Graduate School and Career Preparation 1 PYCH-2600 Human Development: Lifespan 3 PYCH-2640 Abnormal Psychology 3 Elective 3 Total 16		
Summer Year 1 BTGE-2740 New Testament Literature 3 COM-1100 Fundamentals of Speech 3 LIT-2XXX Literature Elective 3 PYCH-2610 Statistics 3 Physical Science Elective 3.5 Total 15.5		
Fall Year 2: PYCH-2650 Learning and Memory 3 PYCH-3690 Social Psychology 3 PYCH-3730 Research Methods 3 Concentration Requirements 3 Electives 6 Total 18		
Spring Year 2. BTGE-3755 Theology I		
Summer Year 2. BTGE-3765 Theology II		
Fall Year 3. PYCH-3610 History and Systems of Psychology 3 PYCH-3620 Psychology and Christianity 3 PYCH-4640 Psychology Comprehensive Review 3 or (PYCH-4990 Psychology Internship 3) Concentration Requirements 3 Electives 3 Total 15		
Spring Year 3: Concentration Requirements 3 Electives 14 Total 17		

Graduate Program Pathway Option for Psychology

The Bachelor of Arts in psychology program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at **6**.

Department of Psychology Minors

Minors

Psycho	logy	Minor
---------------	------	-------

-,	
The psychology minor helps students who find that general	
coursework in psychology will support their major field of study.	
In particular, understanding people and human dynamics and	
applying the scientific method to problem-solving strengthens	
students' vocational preparation and ultimate job success. The	
psychology minor is constructed to allow maximum flexibility	
across a large cross section of majors at Cedarville University.	
Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH-2640 Abnormal Psychology	
Electives in psychology	12

Each of the following minors help prepare students who are interested in specific coursework to adequately present their education and traning in psychology.

Addictions and Chemical Dependency Minor

Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH 2640 Abnormal Psychology	3
PYCH-2840 Concepts of Chemical Dependency	3
PYCH-3000 Addictions	3
PYCH-3670 Group Dynamics	3
PYCH-3901 Medications and Behavior	3

Child and Family Studies Minor

Cilia and Family Studies willor	
Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH 2640 Abnormal Psychology	3
PYCH-3660 Professional Counseling	3
Choose two from the following	6
PYCH-3680 Counseling Couples and Families	3
PYCH-3701 Counseling Adolescents	3
PYCH-4700 Counseling Children	3
Choose one from the following	
PYCH-3130 Intimate Relationships	3
PYCH-3420 Human Sexuality	
PYCH-3710 Adult Development and Aging	
1 3 3	

Comprehensive Counseling Minor

Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	(
PYCH 2640 Abnormal Psychology	
PYCH-3660 Professional Counseling	
PYCH-3750 Psychological Testing	
Choose two from the following	
PYCH-3670 Group Dynamics	
PYCH-3680 Counseling Couples and Families	
PYCH-4400 Counseling Skills	
3	

Cross-Cultural Psychology Minor

Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH-1800 Cross-Cultural Psychology	
PYCH 2640 Abnormal Psychology	
PYCH-3740 Qualitative Research	
*PYCH-XXXX Study-Abroad Electives	6
Students must complete at least 6 credit hours of a semester-long studies abro	ad

*Students must complete at least 6 credit hours of a semester-long studies abroad through the University's Office of CU Study Abroad and complete their internship abroad. A foreign language minor is encouraged.

Health Psychology and Public Health Minor

Course requirements involve 21 semester hours including:	
PYCH-1600 General Psychology	3
PYCH 2640 Abnormal Psychology	3
PYCH-2850 Psychology of Adjustment	3
PYCH-3000 Addictions	
PYCH-3380 Health Psychology	3
PYCH-3901 Medications and Behavior	3
Choose one or more from the following	3
GBIO-2010 Human Anatomy and Physiology I	4
GBIO-2210 Principles of Microbiology	4
MAHE-3030 Nutrition	3
NSG-1050 Health Promotion and Wellness	3
NSG-4000 Care of Populations	6
NSG-4200 Culture and Health	3
PPHR-1011 Profession of Pharmacy-Intro to Public Health	1
PPHR-4280 Introduction to Health Behavior and Beliefs	2
PYCH-3760 Cognitive Neuroscience	3
PYCH-3900 Neurophysiological Psychology	3
PYCH-4950 Psychology Thesis	

Neuropsychology Minor

Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH 2640 Abnormal Psychology	3
PYCH-3750 Psychological Testing	3
PYCH-3760 Cognitive Neuroscience	
PYCH-3901 Medications and Behavior	
Select one from the following	3
PYCH-3770 Experimental Design (for psychology majors)	3
PYCH-3900 Neurophysiological	
Psychology (for non-psychology majors)	3
,	

Psychological Research Minor

· cychiclogical riccoulon illinio	
Course requirements involve 18 semester hours including:	
PYCH-1600 General Psychology	3
PYCH 2640 Abnormal Psychology	3
PYCH-3720 Psychology of Personality	3
PYCH-3740 Qualitative Research	3
PYCH-3750 Psychological Testing	3
PYCH-3770 Experimental Design	





Department of Science and Mathematics

Mission Statement	. 193
Personal Requirements	. 193
Programs of Study	. 193
Cocurricular Opportunities	. 193
Technical Resources	. 193
Career Opportunities	. 193
Faculty	. 193
Majors	
» Biology — Bachelor of Arts	. 195
» Biology — Bachelor of Science	. 197
» Chemistry — Bachelor of Arts	. 198
» Chemistry — Bachelor of Science	. 199
» Environmental Science	. 200
» Forensic Science	. 201
» Geology — Bachelor of Science	
» Mathematics — Bachelor of Arts	. 204
» Mathematics — Bachelor of Science	. 205
» Molecular Biology	
» Physics — Bachelor of Science	. 207
» Teacher Education Licensure Programs	
Adolescent and Young Adult	. 208
» Chemistry Education	. 208
» Life Science Education	. 209
» Mathematics Education — Integrated	. 210
» Physical Science Education	
» Physics Education	. 212
» Science Comprehensive Education	
— Integrated	. 213
Pathways to a Graduate Degree	
» Graduate Program Pathway Option for Biology — Bachelor of Arts	196
» Graduate Program Pathway Option for Biology —	
Darahada a (Oalasaa	407

»	Graduate Program Pathway Option for Chemestry — Bachelor of Arts	
»	Graduate Program Pathway Option for Chemistry —	
»	Bachelor of Science	
»	Science	20
»	Science	20
"	Bachelor of Science	
»	Graduate Program Pathway Option for Mathematics Bachelor of Arts	 20
»	Graduate Program Pathway Option for Mathematics	_
»	Bachelor of Science	
»	BiologyGraduate Program Pathway Option for Physics —	20
	Bachelor of Science	20
/lin	ors	
>>	Actuarial Science Minor2	14
>>	Biology Minor2	14
>>	Chemistry Minor2	14
>>	Earth Science Minor2	14
>>	Geology Minor2	14
	Mathematics Minor 2	
>>	Physics Minor2	14
	ecial Programs	
>>	Preagriculture Curriculum2	14
>>	Agriculture Business Emphasis2	14
>>	Agriculture Science Emphasis2	14
>>	Environmental Biology Emphasis	15
	Prephysician Assistant	
	Predental, Premedical, Preoptometric 2	
	Preveterinary	
	partment of Science and Mathematics	
-		

Course Descriptions......296

Department of Science and Mathematics Mission Statement

Mission Statement

The Cedarville University Department of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, geological sciences, the earth-space sciences, and secondary science and mathematics education. The department seeks to present the natural sciences and mathematics as disciplines through which students can learn to understand creation and its Creator. They will learn how to exercise stewardship of this knowledge as professionals who seek to make a difference in their vocations for the glory of God and the benefit of family, church, community, and environment.

This department seeks to:

- · Provide a meaningful learning experience in the sciences and mathematics as part of the liberal arts core curriculum.
- Aid students in developing clear and orderly thinking processes through the use of the techniques of science and mathematics.
- Assist students in developing a biblical perspective of the sciences, which is essential in understanding controversial issues such as origin of life, biomedical ethics, and genetic engineering.
- Prepare students for graduate study or further professional study in the medical, environmental, or agricultural sciences.
- Prepare secondary teachers with a biblical perspective of science.
- Prepare students to serve in other science-related vocations.

Personal Requirements

Students who enjoy and excel in high school mathematics and science courses possess the greatest potential for success as graduates of this department. Therefore, to prepare for the mathematics and science curricula, students should take a college preparatory curriculum which includes:

- · Four units of English
- · Four units of mathematics (algebra, geometry, and trigonometry)
- Four units of science (physical science, biology, chemistry, and physics)
- Three units of social science
- Three units of a single foreign language
- Electives in computers may also be helpful.

Programs of Study

The Department of Science and Mathematics offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Biology
- Life Science Education
- Chemistry Education
- Physical Science Education
- Mathematics Education Integrated
- Science Comprehensive Education Integrated

Bachelor of Science (B.S.) in:

- Biology
- Chemistry
- **Environmental Science**
- Forensic Science
- **Minors**
 - **Actuarial Science**
 - Biology
 - Chemistry
 - Earth Science
- **Special Programs**
- - Environmental Biology
 - Preagriculture
 - Predenta Premedical

- Mathematics
- Molecular Biology

Chemistry

Mathematics

Physics Education

- **Physics**
- Geology
- Geology
- Mathematics
- **Physics**
- Preoptometric
- Prephysician Assistant
- Preveterinary

Cocurricular Opportunities

- Alpha Theta Pi (Biology Club)
- Chi Theta Pi (pre-health professions organization)
- Cedarville University Emergency Medical Services Squad
- QED (Math Club)
- Epsilon Kappa Mu (pre-vet club)
- Chemistry Club (American Chemical Society Student Chapter)

Technical Resources

- ArcGis
- Biology and chemistry support •
- CCP4
- Chem Sketch
- DPGraph 2008
- Laboratory simulations
- LabScrib3
- LaTeX
- Matlab 2017
- MicroCalc 7.0 laboratory
- Statistical analysis tools

Career Opportunities

Graduates of this department have gained admission to outstanding graduate and professional schools around the nation. Careers pursued by graduates include:

- Agricultural consultant
- **Biologist**
- **Botanist**
- Business actuary
- Chemist
- Chiropractor
- Environmental scientist
- Environmental toxicologist
- Geologist
- Health professional

- Laboratory technician
- Mathematician
- Pharmacist
- Physical therapist
- Physician
- **Physicist**
- Researcher
- Science educator
- Statistician
- Wildlife biologist

Faculty

Mark McClain, Chair; Professor of Chemistry. Education: B.A., Cedarville University, 1989; Ph.D., University of Michigan, 1994; Postdoctoral Fellow, Sandia National Laboratories, 1994-96; Summer Faculty Research Fellow, Air Force Research Laboratory, 1997, 1999, 2000, 2001, 2002; National Research Council Senior Research Associate, 2003-2004. At Cedarville since 1996. Steven Gollmer, Assistant Chair; Senior Professor of Physics.

Education: B.S., Pillsbury Baptist Bible College, 1982; B.S., Northern Illinois University, 1985; M.S., University of Illinois, 1986; Ph.D., Purdue University, 1994. At Cedarville since 1994.

Melissa Burns, Assistant Professor of Biology; Joint Assistant Professor of Pharmacy. Education: B.A., Cedarville University, 1996; M.D., Indiana University School of Medicine, 2000. At Cedarville since 2009.

Tracy Collins, Associate Professor of Biology. Education: B.S., The Ohio State University, 2000; M.S., University of Dayton, 2005; Ph.D., University of Dayton, 2010. At Cedarville since 2015.

Sharon Cooper, Assistant Professor of Biology. Education: B.S., Cedarville University, 2010; Ph.D., The Ohio State University, 2017. At Cedarville since 2017.

Terry Dickson, Professor of Biology. Education: B.S., The Ohio State University, 1973; M.D., Medical College of Ohio at Toledo, 1982. At Cedarville since 2020.

Dennis Flentge, Senior Professor of Chemistry. Education: B.S., Texas Lutheran College, 1969; Ph.D., Texas A&M University, 1974; Postdoctoral Research Fellow, University of Florida, 1974-75; Texas A&M University, 1976; Summer Faculty Research Fellow, Wright-Patterson Air Force Base, 1981, 1982, 1984-1988, 1990, 1996, 1997, 2001; graduate study, University of Wisconsin, summer, 1984. At Cedarville since 1980.

Darrin Frey, Senior Professor of Mathematics. Education: B.S., University of Nebraska, 1989; Ph.D, University of Michigan, 1995. At Cedarville since 1997.

Department of Science and Mathematics Faculty

Mark Gathany, Professor of Biology. *Education:* B.S., Grace College, 2002; M.S.E.S and Conservation Biology Certificate, Ohio University, 2004; Ph.D., Colorado State University. At Cedarville since 2007.

Sarah Gilchrist, Assistant Professor of Mathematics. *Education:* B.S., Cedarville University, 2000; M.S., Wright State University, 2004; Ph.D., The Ohio State University, ABD. At Cedarville 2004–2009, 2012.

Adam Hammett, Associate Professor of Mathematics. *Education:* B.S., Westmont College, 2001; Ph.D., The Ohio State University, 2007–2008. At Cedarville University since 2015

Nathan Hnatiuk, Associate Professor of Chemistry. *Education:* B.S., Houghton College, 2003; Ph.D., University of Connecticut, 2010. At Cedarville University since 2008

Ashley Holland, Associate Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D. University of Michigan, 2012. At Cedarville since 2013. **Geoffrey Holloway**, Associate Professor of Chemistry. *Education:* B.S., Ball State University, 1996; Ph.D., University of Illinois, 2001; Dreyfus Postdoctoral Fellow, 2001–2002, Eastern Illinois University. At Cedarville since 2012.

Aaron Hutchison, Associate Professor of Chemistry. *Education:* B.A., Cedarville University, 1998; Ph.D., University of Kentucky, 2007. At Cedarville University since 2003.

William Jones, Associate Professor of Biology. *Education:* B.A., Cedarville University, 1981; M.A., University of Akron, 1999; Ph.D., The Ohio State University. At Cedarville since 1999.

Heather Kuruvilla, Senior Professor of Biology; Joint Professor of Pharmacy. *Education:* B.S., Houghton College, 1992; Ph.D., State University of New York at Buffalo, 1997. At Cedarville since 1997. **Lindsey McCarty**, Associate Professor of Mathematics. *Education:* B.S., Cedarville University, 2005; M.S., University of Michigan, 2008; Ph.D., University of Michigan, 2012. At Cedarville

Michael Mendel, Professor of Zoology. *Education:* B.S., Humboldt California State University, 1981; M.S., New Mexico State University, 1984; Ph.D., University of Maine, 1992. At Cedarville since 2016

Douglas Miller, Professor of Chemistry. *Education:* B.S., University of Rochester, 1977; Ph.D., University of Colorado, 1981; postdoctoral research, University of Iowa, 1982; City University of New York, 1982–1984; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1986–1990, 1992. At Cedarville since 1984.

Joni Ormsbee, Assistant Professor of Mathematics. Education: B.S., Wright State University, 1987; M.A.T., Miami University, 1992; M.S., Miami University, 1995. At Cedarville since 2010.

Christina Osborne, Assistant Professor of Mathematics. *Education*: B.S., California Baptist University, 2012; M.S., University of California at Riverside, 2014; Ph.D., University of Virginia, 2018; postdoctoral Ross Assistant Professor of Mathematics, The Ohio State University, 2018-2020. At Cedarville since 2020.

Lin Pan, Associate Professor of Physics. *Education*. B.Sc., Qingdao University, 1991; Ph.D., Michigan Technological University, 2008. At Cedarville since 2011.

Robert Paris, Associate Professor of Biology. *Education:* B.S., Berea College, 1992; M.S., University of Tennessee, 1997; Ph.D., Virginia Polytechnic Institute and State University, 2000. At Cedarville since 2011.

Kaleb Pauley, Associate Professor of Biology; Joint Assistant Professor of Pharmacy. *Education:* B.S., Marshall University, 2002; M.S., Marshall University, 2004: Ph.D., University of Florida, 2008; Postdoctoral Research Fellow, University of Florida, 2008–2011. At Cedarville since 2011.

Mohan Pereira, Assistant Professor of Physics. *Education:* B.S., University of Colombo, 2007; Ph.D., University of Rhode Island, 2016; postdoctoral research, Yale School of Medicine, 2016-2018. At Cedarville since 2018.

Thomas Rice, Assistant Professor of Geology. *Education:* B.S., West Virginia University, 1978; M.E., Colorado School of Mines, 1987. At Cedarville since 2012.

Kevin Roper, Professor of Mathematics. *Education:* B.S., Southhampton University, England, 1979; M.Ed., University of South Carolina, 1988; M.A., University of Kentucky, 1992; Ph.D., University of Kentucky, 1995. At Cedarville 1995–97 and since 2000.

Nina Sekerak, Assistant Professor of Chemistry. *Education*: B.S., Pensacola Christian College, 2009; Ph.D., University of Illinois, Urbana-Champaign, 2015. At Cedarville since 2015.

John Whitmore, Senior Professor of Geology. *Education:* B.S., Kent State University, 1985; M.S., Institute for Creation Research, 1991; Ph.D., Loma Linda University, 2003. At Cedarville since 1991.

Otis Wright, Senior Professor of Mathematics. *Education:* B.Sc. (Hons.), The University of Sydney, Australia, 1987; M.A., Princeton University, 1989; Ph. D., Princeton University, 1991. Postdoctoral research, University of North Carolina at Chapel Hill, 1998–1999. At Cedarville since 2002.

Emerit

Donald Baumann, Senior Professor Emeritus of Biology and Chemistry. *Education:* B.S., Iowa State University, 1960; M.S., Iowa State University, 1962; Ph.D., Iowa State University, 1964. At Cedarville since 1964.

Edwin Braithwaite, Professor Emeritus of Mathematics. *Education:* B.A., Western Washington University, 1966; M.A., Western Washington University, 1968; Ph.D., University of Illinois, 1975. At Cedarville since 1976.

Leroy Eimers, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Hobart College, 1963; M.S., Syracuse University, 1966; Ph.D., Syracuse University, 1970. At Cedarville since 1981. Larry Helmick, Senior Professor Emeritus of Chemistry. *Education:* B.S., Cedarville University, 1963; Ph.D., Ohio University, 1968; postdoctoral research, University of Florida, 1974–75 and summers of 1969, 1970, 1971; University of Illinois, summers of 1972, 1973, 1974; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1980–1987 and 1990–1993, 1998; National Research Council Senior Research Fellow, 1988–1989; Wright Laboratory, Wright-Patterson Air Force Base, 1994–1997. At Cedarville since 1968.

Robert Schumacher, Associate Professor Emeritus of Mathematics. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993.

John Silvius, Senior Professor Emeritus of Biology. *Education:* B.A., Malone College, 1969; graduate study, Western Michigan University, 1970; Ph.D., West Virginia University, 1974; postdoctoral study, University of Illinois, 1974–76. At Cedarville since 1979.

Daniel Wetzel, Professor Emeritus of Physics and Mathematics. *Education:* B.S., Morehead State College, 1955; M.S., University of Cincinnati, 1963; Ph.D., The Ohio State University, 1971. At Cedarville since 1963.

Technical Support Staff

Eric Johnson, Science Laboratory Technician. *Education:* B.A., Cedarville University, 1988. At Cedarville since 2003. **Shannon Swicker**, Biology Laboratory Instructor. *Education:* B.S., Cedarville University, 2018. At Cedarville since 2019.

since 2014.

Department of Science and Mathematics Biology — Bachelor of Arts

Biology — Bachelor of Arts

The Bachelor of Arts degree with a major in biology provides general course background in the biological sciences.

Course requirements involve 53 semester nours including:	
Biology Core Requirements	37
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	
BIO-2250 Cell Biology	4
BIO-2500 General Botany	
BIO-2600 General Ecology	4
BIO-3300 Genetics	4
BIO-3710 Biochemistry	4
*BIO-4800 Senior Seminar-Biology	1
BIO-2XXX, 3XXX, 4XXX, ENVS-2XXX, or 3XXX	8
Departmental Requirements	16
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-3510 Organic Chemistry I	4
GMTH-1030 Precalculus	
*Capstone Course	

Biology Major (B.A.) Curriculum Summary

biology major (b.A.) Curriculum Summary	
Proficiency Requirements	0–4
Other General Education Requirements	41–49
Biology Major Requirements	53
Electives	26–34
Total (minimum, not including proficiency)	128

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to page 216 for a list of courses generally recommended for admission to professional colleges.

Students anticipating **graduate study** in biology should consider completing the Bachelor of Science in biology curriculum.



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Biology — B.A.

First year: BIO-1110 Introduction to Biology	
Second year: BIO-2250 Cell Biology	
Third year: BIO-3300 Genetics BIO-3710 Biochemistry BTGE-3755 Theology I BTGE-3765 Theology II Biology Electives Humanities Elective Electives Total	
Fourth year: BIO-4800 Senior Seminar — Biology Social Science/Global Awareness Elective Electives Total	3



Department of Science and Mathematics Biology — Bachelor of Arts

Suggested Three-Year Curriculum for a Major in Biology — B.A.

Fall Year 1:BTGE-1725 The Bible and the Gospel3BIO-1110 Introduction to Biology4CHEM-1110 General Chemistry I (physical science elective)4GMTH-1030 Precalculus4PEF-1990 Physical Activity and Healthy Living2Total17
Spring Year 1 BTGE-2730 Old Testament Literature
Summer Year 1 BTGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 LIT-2XXX Literature Elective 3 Social Science/Global Awareness Elective 3 Electives 4 Total 16
Fall Year 2: 4 BIO-2250 Cell Biology 4 BIO-2500 General Botany 4 CHEM-3510 Organic Chemistry I 4 Electives 4 Total 16
Spring Year 2. BTGE-3755 Theology I
Summer Year 2. BTGE-3765 Theology II 3 HUM-1400 Introduction to the Humanities. 3 History Elective. 3 Humanities Elective. 3 Electives. 3 Total. 15
Fall Year 3. BIO-3300 Genetics 4 Biology Electives 4 Electives 8 Total 16
Spring Year 3: BIO-3710 Biochemistry



The Bachelor of Arts in biology program offers accelerated pathways to the Master of Business Administration degree and the Advanced Master of Divinity degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.





Department of Science and Mathematics Biology — Bachelor of Science

Biology — Bachelor of Science

The Bachelor of Science degree with a major in biology prepares students for graduate study in the biological sciences by including the course requirements prescribed by many of the leading graduate-level biology degree programs in the nation. This major enhances the student's depth of knowledge in biology and increases the breadth of exposure to chemistry, mathematics, and physics.

Riology Core Poquirements
Course requirements involve 75 hours including:

Biology Core Requirements	47
BIO-1110 Introduction to Biology	
BIO-1120 General Zoology	
BIO-2250 Cell Biology	
BIO-2500 General Botany	
BIO-2600 General Ecology	4
BIO-3300 Genetics	4
BIO-3710 Biochemistry	4
BIO-3800 Biological Research	2
(or BIO-3810 Biological Research Internship2)
*BIO-4800 Senior Seminar — Biology	1
BIO-2XXX,3XXX, 4XXX, ENVS-2XXX, or 3XXX	16
Departmental Requirements	28
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-3510, 3520 Organic Chemistry I and II	8
MATH-1700 Calculus and Dynamical Systems for the Life	
Sciences	
PHYS-1010, 1020 College Physics I and II	8
*Capstone Course	

Biology Major (B.S.) Curriculum Summary

Biology major (Biol) curriculum cummary	
Proficiency Requirements	0–4
Other General Education Requirements	41
Biology Major Requirements	75
Electives	12
Total (minimum, not including proficiency)	128

Students anticipating **graduate study** should consider completing the Bachelor of Science in chemistry curriculum.

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to page 216 for a list of courses generally recommended for admission to professional colleges.



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Biology — B.S.

First year: BIO-1110 Introduction to Biology	
Second year: BIO-2250 Cell Biology	
Third year: BIO-3300 Genetics BIO-3710 Biochemistry BIO-3800 Biological Research (or BIO-3810 Biological Research Internship BTGE-2730 Old Testament Literature BTGE-2740 New Testament Literature PHYS-1010, 1020 College Physics I and II Biology/ENVS Electives Social Science/Global Awareness Elective Total	
Fourth year: BIO-4800 Senior Seminar — Biology	

Graduate Program Pathway Option for Biology — Bachelor of Science

The Bachelor of Science in biology program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Science and Mathematics Chemistry — Bachelor of Arts

Chemistry — Bachelor of Arts

The Bachelor of Arts degree with a major in chemistry prepares students for careers in the health professions, technical business professions, and other science-related vocations.

Course requirements involve 34 semester hours including:	
Chemistry Core Requirements	27
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-2210 Analytical Chemistry I	3
CHEM-2800 Introduction to Research in Chemistry	1
CHEM-3510, 3520 Organic Chemistry I and II	8
CHEM-4310 Thermodynamics and Kinetics	4
(or CHEM-4320 Quantum Mechanics and Spectroscopy 4)
*CHEM-4800 Senior Seminar — Chemistry	1
CHEM 4830 Research in Chemistry	2
CHEM-2XXX, 3XXX, or 4XXX	
Required Cognates	18

Required Cognates	18
MATH-1710, 1720 Calculus I and II	
PHYS-2110, 2120 General Physics I and II8	
*Capstone Course	

Chemistry Major (B.A.) Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	
Chemistry Major Requirements	34
Cognates	
Electives	
Total (minimum, not including proficiency).	128

Students anticipating **graduate study** should consider completing the Bachelor of Science in chemistry curriculum.

Students preparing for medicine, dentistry, optometry, or any of the health professions should refer to page 216 for a list of courses generally recommended for admission to professional colleges.



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Chemistry — B.A.

First year: BTGE-1725 The Bible and the Gospel	8 3 3 10 2
Second year: BTGE-2730 Old Testament Literature	3 1 3 3 3
Third year: BTGE-3755 Theology I. BTGE-3765 Theology II. CHEM-3510, 3520 Organic Chemistry I and II. CHEM-2XXX, 3XXX, or 4XXX Biology Elective	3 8 7 .3.5 3 3
Fourth year: CHEM-4310 Thermodynamics and Kinetics	4) 1 2

Graduate Program Pathway Option for Chemestry — Bachelor of Arts

The Bachelor of Arts in chemistry program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Science and Mathematics Chemistry — Bachelor of Science

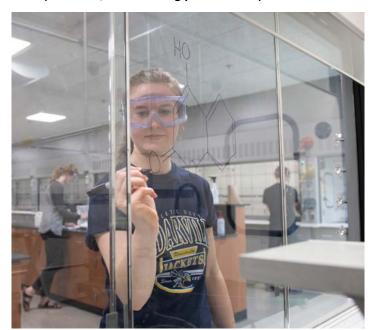
Chemistry — Bachelor of Science

The **Bachelor of Science degree with a major in chemistry** prepares students for graduate study in chemistry and for careers in industry or research. The degree requirements provide training in each of the primary areas of chemistry with the necessary support in mathematics, physics, and biology.

Course requirements involve 48 semester hours including:	
Chemistry Core Requirements	38
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-2210, 2220 Analytical Chemistry I and II	6
CHEM-2800 Introduction to Research in Chemistry	1
CHEM-3410 Inorganic Chemistry	3
CHEM-3510, 3520 Organic Chemistry I and II	
CHEM-4310 Thermodynamics and Kinetics	4
CHEM-4320 Quantum Mechanics and Spectroscopy	4
*CHEM-4800 Senior Seminar — Chemistry	1
CHEM-4830 Research in Chemistry	3
CHEM 2XXX, 3XXX, or 4XXX	
Required Cognates	18
MATH-1710, 1720 Calculus I and II	10
PHYS-2110, 2120 General Physics I and II	
*Capstone Course	

Chemistry Major (B.S.) Curriculum Summary

Chemistry Major (B.S.) Curriculum Summary	
Proficiency Requirements	.0–4
Other General Education Requirements	44.5
Chemistry Major Requirements	48
Cognates	18
Electives	.17.5
Total (minimum, not including proficiencies)	. 128



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Chemistry — B.S.

First year: BTGE-1725 The Bible and the Gospel 3 CHEM-1110, 1120 General Chemistry I and II 8 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 MATH-1710, 1720 Calculus I and II 10 PEF-1990 Physical Activity and Healthy Living 2 History Elective 3 Total 32
Second year: 3 BTGE-2730 Old Testament Literature
Third year: 3 BTGE-3755 Theology I
Fourth year: CHEM-3410 Inorganic Chemistry 3 CHEM-4800 Senior Seminar — Chemistry 1 CHEM-4830 Research in Chemistry 3 CHEM-2XXX,3XXX, or 4XXX 10 Humanities Elective 3 Electives 13.5 Total 33.5

Graduate Program Pathway Option for Chemistry — Bachelor of Science

The Bachelor of Science in chemistry program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.



Department of Science and Mathematics Environmental Science

Environmental Science

The Bachelor of Science degree with a major in environmental science prepares students with a foundation for entering vocations in ecology, conservation biology, environmental education, environmental consulting companies, etc., and graduate study which is often needed for these careers.

Course requirements involve 78-79 semester hours including	:
Environmental Science Core Requirements	
BIO-1110 Introduction to Biology	
BIO-1120 General Zoology	
BIO-2500 General Botany	
BIO-2600 General Ecology	
BIO-3800 Biological Research	2
*BIO-4800 Biology Senior Seminar	
ENVS-1110 Environment: Science, Sustainability,	
and Stewardship	. 4
ENVS-3100 Geographic Information Systems	. 4
ENVS-3200 Advanced Ecology	
ENVS-3600 Environmental Ethics	. 3
GEOL-1110 Introduction to Physical Geology	
Required Cognates	22
CHEM-1110, 1120 General Chemistry I and II	. 8
CHEM-3510 Organic Chemistry I	. 4
GMTH-2110 Introduction to Biostatistics	. 3
MATH-1700 Calculus and Dynamical Systems for the Life	
Sciences	. 4
POLS-3690 Public Policy	
Track Options-Select One of the Following19	
Animal and Wildlife Biology	20
BIO-3410 Parasitology and Invertebrate Zoology3	
BIO-3420 Comparative Vertebrate Anatomy	
and Physiology4	
BIO-3520 Plant Taxonomy3	
BIO-3610 Ecophysiology3	
BIO-4880 Topics in Biology3	
BIOA-3210 Animal Ecology4	
or BIOA-3450 Wildlife Ecology4	
Geology	19
BIOA-3010 Land Resources4	
GEOL-3100 Geomorphology4	
GEOL-3800 Philosophy of Science and Research	
Methods in Geology3	
GEOL-4100 Environmental Geology4	
GEOL-XXX Geology Elective4	
Molecular Ecology	20
BIO-2250 Cell Biology4	
BIO-3300 Genetics4	
BIO-3710 Biochemistry4	
BIO-3XXX/4XXX Elective	
or BIOA-3XXX/4XXX AuSable Institute course4	
CHEM-3520 Organic Chemistry II4	
Plant and Agricultural Science	19
BIO-3410 Parasitology and Invertebrate Zoology3	
BIO-3510 Plant Physiology3	
BIO-3520 Plant Taxonomy3	
BIO-3610 Ecophysiology3	
BIOA-3030 Ecological Agriculture4	
BIO-4880 Topics in Biology3	
Independent Track	19

Students may elect to pursue another emphasis, or minor, related to the major field of study and approved by the academic advisor. Examples would include GIS/ Geospatial, Earth Science, and Community Development among others.

Environmental Science Major (B.S.) Curriculum Summary	
Proficiency Requirements	0-4
General Education Requirements	38
Environmental Science Major Requirements	56-57
Cognate Requirements	22
General Electives	11-12
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Environmental Science — B.S.

major in Environmental Colonico B.C.	
First year: BIO-1110 Introduction to Biology	4 3 3 p4 4 3
Second year: BIO-2500 General Botany BIO-2600 General Ecology BTGE-2730 Old Testament Literature BTGE-2740 New Testament Literature Interest	4 3 8 3 .es 4
Third year: BIO-3800 Biological Research BTGE-3755 Theology I CHEM-3510 Organic Chemistry I ENVS-3100 Geographic Information Systems ENVS-3200 Advanced Ecology ENVS-3600 Environmental Ethics LIT-2XXX Literature Elective Track requirements Electives Total	3 4 3 3 3 3
Fourth year: BTGE-3765 Theology II	1 3 3 11-12 8-9

Graduate Program Pathway Option for Environmental Science

The Bachelor of Science in environmental science program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at cedarville.edu/gradpathways.

Department of Science and Mathematics Forensic Science

Forensic Science

The Bachelor of Science degree with a major in forensic science is an interdisciplinary degree that includes substantial laboratory work and an emphasis on advanced coursework in the sciences. It will involve a collaborative endeavor between Cedarville University and the Ohio Bureau of Criminal Identification and Investigation consisting of a forensic laboratory experience on an internship basis with the bureau.

Course requirements involve 90 semester hours including:		
Science and Math Core Requirements	6	64
BIO-1110 Introduction to Biology		
BIO-1120 General Zoology	4	
BIO-2250 Cell Biology	4	
BIO-3710 Biochemistry	4	
CHEM-1110, 1120 General Chemistry I and II		
CHEM-2210, 2220 Analytical Chemistry I and II	6	
CHEM-3510, 3520 Organic Chemistry I and II	8	
FORS-3400 Forensic Science	4	
*FORS-4800 Forensic Science Capstone	1	
GSS-3650 Quantitative Methodology		
or GMTH-2110 Intro to Biostatistics	3	
MATH-1710, 1720 Calculus I and II		
PHYS-2110, 2120 General Physics I and II		
Criminal Justice Requirements		18
CRJU-1310 Introduction to Criminal Justice		
CRJU-3350 Criminal Law		
CRJU-3390 Criminal Evidence		
CRJU-3400 Criminal Procedure		
CRJU-4320 Criminal Investigation		
GSS-4990 History and Government Internship	3	
Required Science electives selected from		.8
BIO-3300 Genetics		
BIO-3450 Human Structure and Function I		
BIO-3460 Human Structure and Function II		
BIO-4210 Advanced Cell Biology	4	
BIO-4300 Molecular Biology of the Cell		
CHEM-4310 Thermodynamics and Kinetics		
CHEM-4320 Quantum Mechanics and Spectroscopy	4	
*Capstone Course		

Forensic Science Major (B.S.) Curriculum Summary Proficiency Requirements0-4 General Education Requirements......38 Forensic Science Major Requirements......90 Total (minimum, not including proficiency)128



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Forensic — B.S.

First year:	
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BTGE-1725 The Bible and the Gospel	3
CHEM-1110, 1120 General Chemistry I and II	
CRJU-1310 Introduction to Criminal Justice	
ENG-1400 Composition	
PEF-1990 Physical Activity and Healthy Living	2
History Elective	3
Total	
Second year: BTGE-2730 Old Testament Literature	_
BTGE-2740 New Testament Literature	٠3
CHEM-2210, 2220 Analytical Chemistry I and II	ხ
COM-1100 Fundamentals of Speech	
GSS-1100 Politics and American Culture	
MATH-1710, 1720 Calculus I and II	
LIT-2XXX Literature Elective	١١٠
Total	
IOIai	34
Third year:	
BIO-2250 Cell Biology	4
BTGE-3755 Theology I	
BTGE-3765 Theology II	3
CHEM-3510, 3520 Organic Chemistry I and II	
CRJU-3350 Criminal Law	3
CRJU-4320 Criminal Investigation	
FORS-3400 Forensic Science	
HUM-1400 Introduction to the Humanities	
Humanities Elective	
Total	34
Fourth year:	
BIO-3710 Biochemistry	4
CRJU-3400 Criminal Procedure	
FORS-4800 Forensic Science Capstone	1
GSS-3650 Quantitative Methodology	3
(or GMTH-2110 Introduction to Biostatistics	3)
GSS-4990 History and Government Internship	3
PHYS-2110, 2120 General Physics I and II	8
Science Electives	

Graduate Program Pathway Option for Forensic Science

The Bachelor of Science in forensic science program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at cedarville.edu/ gradpathways.



Department of Science and Mathematics Geology — Bachelor of Science

Geology — Bachelor of Science

The Bachelor of Science degree with a major in geology prepares students for graduate studies or employment in a wide variety of geological fields. Skills needed by modern geologists, such as observation, interpretation, model analysis, critical thinking, and field work, are emphasized throughout the program. Opportunities for undergraduate research and publication are also available and encouraged.

Course requirements involve 88–89 hours including:	
Geology Core Requirements	.38
ENVS-3100 Geographic Information Systems4	ļ
GEOL-1110 Introduction to Physical Geology4	ļ
GEOL-1120 Historical Geology4	ŀ
GEOL-2100 Mineralogy 4	Ļ
GEOL-3100 Geomorphology 4	ŀ
GEOL-3600 Readings in Geology (one-hour taken twice) 2	<u> </u>
GEOL-3800 Philosophy of Science/Research Methods	
in Geology3	3
GEOL-4100 Environmental Geology4	1
GEOL-4700 Professional Geologist Exam Prep 1	
*GEOL-4800 Senior Project (one-hour taken twice)	
POLS-3690 Public Policy	3
GEOL-3XXX/4XXX Geology electives	`
alor onto 47000 acology closives	,
Geosciences Emphasis Requirements	32
BIO-1120 General Zoology	. O =
BIO-2500 General Botany	
BIO-2600 General Ecology	
ENVS-1110 Environment: Science, Sustanability, and	r
Stewardship4	
ENVS-3200 Advanced Ecology	†)
ENVS-3200 Advanced Ecology)
GEOL-3200 Invertebrate Paleontology	
	ŀ
or GEOL 3300 Petrology4	
GEOL-3XXX/4XXX Geology electives) `
MGMT-3500 Principles of Organization and Management 3) 40
Geosciences Cognates	. 19
BIO-1110 Introduction to Biology	-
CHEM-1110 General Chemistry I	
CHEM-1120 General Chemistry II	
GMTH-2110 Introduction to Biostatistics	3
MATH-1700 Calculus and Dynamical Systems	
for Life Sciences4	ļ
Physical Geology Emphasis Requirements	.23
GEOL-3200 Invertebrate Paleontology	
GEOL-3300 Petrology4	-
GEOL-3400 Structural Geology4	ļ
GEOL-4200 Stratigraphy and Sedimentology5	;
GEOL-4400 Summer Field Camp6	;
Physical Geology Cognates	.27
BIO-1110 Introduction to Biology4	ŀ
CHEM-1110 General Chemistry I4	ļ
CHEM-1120 General Chemistry II4	
GMTH-2110 Introduction to Biostatistics	}
MATH-1700 Calculus and Dynamical Systems	
for Life Sciences4	ŀ
PHYS-1010 College Physics I4	Ļ
PHYS-1020 College Physics II	1

Geology Major (B.S.) Curriculum Summary	
Proficiency Requirements	0–4
General Education Requirements	38
Geology Major Requirements	61–70
Cognate(s)	19–27
General Electives	1–2
Total (minimum, not including proficiency)	128

A complete description of the general education requirements is found on page <?>.

Suggested Four-Year Curriculum for a Major in Geology (Geosciences Emphasis) — B.S.

major in deology (deosciences Emphasis) — b.s.
First year: BIO-1110 Introduction to Biology 4 BIO-1120 General Zoology 4 BTGE-1725 The Bible and the Gospel 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 ENVS-1110 Environment: Science, Sustainability, and Stewardship 4 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 Total 32
Second year: CHEM-1110, 1120 General Chemistry I and II
Third year: BIO-2500 General Botany 4 BIO-2600 General Ecology 4 BTGE-2740 New Testament Literature 3 ENVS-3600 Environmental Ethics 3 GEOL-3100 Geomorphology 4 GEOL-3200 Invertebrate Paleontology 4 (or GEOL-3300 Petrology 4) GEOL-3600 Readings in Geology (one-credit hour taken twice) 2 GEOL-3800 Philosophy of Science/Research Methods in Geology 3 LIT-2XXX Literature Elective 3 POLS-3690 Public Policy 3 Total 33
Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 ENVS-3200 Advanced Ecology 3 GEOL-4100 Environmental Geology 4 GEOL-4700 Professional Geologist Exam Prep 1 GEOL-4800 Senior Project (one-credit hour taken twice) 2 MGMT-3500 Principles of Organization and Management 3 Geology Electives 6 History/Global Awareness Elective 3 Humanities Elective 3 General Electives 1 Total 32

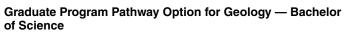
*Capstone Course

Department of Science and Mathematics Geology — Bachelor of Science

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Geology (Physical Geology Emphasis) — B.S.

First year: BTGE-1725 The Bible and the Gospel 3 BTGE-2730 Old Testament Literature 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GEOL-1110 Introduction to Physical Geology 4 GEOL-1120 Historical Geology 4 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 MATH-1700 Calculus and Dynamical Systems for Life Sciences 4 PEF-1990 Physical Activity and Healthy Living 2 Total 32
Second year: BIO-1110 Introduction to Biology
Third year: BTGE-2740 New Testament Literature
Summer: GEOL-4400 Summer Field Camp6
Fourth year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 GEOL-4100 Environmental Geology 4 GEOL-4700 Professional Geologist Exam Prep 1 GEOL-4800 Senior Project (one-credit hour taken twice) 2 POLS-3690 Public Policy 3 Geology Core Electives 3 History/Global Awareness Elective 3 Humanities Elective 3 General Electives 2 Total 27



The Bachelor of Science in geology program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.



Department of Science and Mathematics Mathematics — Bachelor of Arts

Mathematics — Bachelor of Arts

The Bachelor of Arts degree with a major in mathematics provides coursework and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts major also prepares students for a wide variety of career opportunities that require a general Bachelor of Arts degree. The flexibility of this major enables students to select their mathematics and other electives to meet educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements involve 54 semester hours including:
Mathematics Core Requirements42
CS-1210 C++ Programming
MATH-1710, 1720, 2710 Calculus I, II, and III
MATH-1990 Beautiful Math Structures and Thinking
MATH-2210 Logic and Methods of Proof
MATH-2740 Differential Equations
MATH-2800 LaTeX for Technical Documents
MATH-3610 Linear Algebra3
MATH-3800 Research Methods in Mathematics
*MATH-4800 Capstone Experience in Mathematics3
PHYS-2110, 2120, 2130 General Physics I, II, and III 10
Electives (meeting the following criteria)12
Applied courses (at least three hours from the following
applied courses)3-9
MATH-3110 Probability and Statistics3
MATH-3120 Theory of Probability3
MATH-3240 Introduction to Operations Research3
MATH-3550 Discrete Mathematics: Graph Theory3
MATH-3750 Introduction to Dynamical Systems3
MATH-3760 Numerical Analysis3
MATH-4130 Mathematical Statistics3
MATH-4210 Mathematical Methods for Physicists3
MATH-4880 Topics in Mathematics1–3
MATH-4900 Independent Study in Mathematics1-3
Theoretical courses (at least three hours from the
following)3-9
MATH-3500 Number Theory3
MATH-3550 Discrete Mathematics: Graph Theory3
MATH-3560 Discrete Mathematics: Combinatorics3
MATH-3710 Advanced Calculus3
MATH-3740 Complex Variables3
MATH-4130 Mathematical Statistics3
MATH-4410 Euclidean and Non-Euclidean Geometry3
MATH-4450 Topology3
MATH-4610, 4620 Abstract Algebra I and II6
MATH-4710, 4720 Real Variables I and II6
MATH-4880 Topics in Mathematics1-3
MATH-4900 Independent Study in Mathematics1-3
*Capstone Course
Mathematics Major (B.A.) Curriculum Summary
Proficiency Requirements0–4
Other General Education Requirements44.5–52.5
Mail II Mail David

 A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Mathematics — B.A.

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	
CS-1210 C++ Programming	
ENG-1400 Composition	
HUM-1400 Introduction to the Humanities	3
MATH-1710, 1720 Calculus I and II	
MATH-1990 Beautiful Math Structures and Th	inking3
MATH-2800 LaTeX for Technical Documents	
PEF-1990 Physical Activity and Healthy Living	
Total	
Second year:	_
BTGE-2730 Old Testament Literature	
BTGE-2740 New Testament Literature	
GSS-1100 Politics and American Culture	
MATH-2210 Logic and Methods of Proof	
MATH-2710 Calculus III	
MATH-2740 Differential Equations	
MATH-3800 Research Methods in Mathemati	
PHYS-2110, 2120 General Physics I and II	8
LIT-2XXX Literature Elective	
Electives	
Total	33
Third year:	
BTGE-3755 Theology I	3
BTGE-3765 Theology II	
GBIO-1000 Principles of Biology	
MATH-3610 Linear Algebra	
PHYS-2130 General Physics III	
Humanities Elective	3
Mathematics Electives	6
Social Science/Global Awareness Elective	3
Electives	
Total	
Fourth year:	
MATH-4800 Capstone Experience in Mathem	
History Elective	
Mathematics Electives	•
Electives	
Total	31.5

Graduate Program Pathway Option for Mathematics — Bachelor of Arts

The Bachelor of Arts in mathematics program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.



Department of Science and Mathematics Mathematics — Bachelor of Science

Mathematics — Bachelor of Science

The Bachelor of Science degree with a major in mathematics prepares students for graduate study in mathematics. The curriculum includes the course requirements prescribed by many of the leading graduate-level mathematics programs in the nation.

Students should include courses in astronomy, chemistry, and physics as general electives. Course requirements involve 69 hours:

nouro.
Mathematics Core Requirements48
CS-1210 C++ Programming2
MATH-1710, 1720, 2710 Calculus I, II, and III
MATH-1990 Beautiful Math Structures and Thinking
MATH-2210 Logic and Methods of Proof
MATH-2740 Differential Equations
MATH-2800 LaTeX for Technical Documents
MATH-3610 Linear Algebra3
MATH-3800 Research Methods
MATH-4610 Abstract Algebra I
MATH-4710 Real Variables I
*MATH-4800 Capstone Experience in Mathematics
PHYS-2110, 2120, 2130 General Physics I, II, and III
Electives (meeting the following criteria)21
Applied courses (at least six hours from the following
applied courses) 6–15
MATH-3110 Probability and Statistics3
MATH-3120 Theory of Probability3
MATH-3240 Introduction to Operations Research3
MATH-3550 Discrete Mathematics: Graph Theory3
MATH 9750 Introduction to Dynamical Systems
MATH-3760 Numerical Analysis3
MATH-4130 Mathematical Statistics
MATH-4210 Mathematical Methods for Physicists3
MATH-4880 Topics in Mathematics1–3
MATH-4900 Independent Study in Mathematics1–3
Theoretical courses (at least six hours from the following
theoretical courses)6–15
MATH-3500 Number Theory3
MATH-3550 Discrete Mathematics: Graph Theory3
MATH-3560 Discrete Mathematics: Combinatorics3
MATH 9740 Complex Veriables
MATH-3740 Complex Variables3
MATH-4130 Mathematical Statistics
MATH-4410 Euclidean and Non-Euclidean Geometry3
MATH 4450 Topology3
MATH-4620 Abstract Algebra II3 MATH-4720 Real Variables II3
MATH 4000 Taning in Mathematics
MATH-4880 Topics in Mathematics1-3 MATH-4900 Independent Study in Mathematics1-3
*Canatone Course
"L.SPOTONA L.OUICA

*Capstone Course

Mathematics Major (B.S.) Curriculum Summary Proficiency Requirements.....

Proficiency Requirements	0–4
General Education Requirements	
Mathematics Major Requirements	69
Electives	
Total (minimum, not including proficiency) .	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Mathematics — B.S.

First year:
BTGE-1725 The Bible and the Gospel
COM-1100 Fundamentals of Speech
CS-1210 C++ Programming2
ENG-1400 Composition3
HUM-1400 Introduction to the Humanities
MATH-1710, 1720 Calculus I and II
MATH-1990 Beautiful Math Structures and Thinking
MATH-2800 LaTeX for Technical Documents
PEF-1990 Physical Activity and Healthy Living
Total
10tal 30
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature3
GSS-1100 Politics and American Culture
MATH-2210 Logic and Methods of Proof
MATH-2710 Calculus III
MATH-2740 Differential Equations
MATH-3800 Research Methods in Mathematics
PHYS-2110, 2120 General Physics I and II
LIT-2XXX Literature Elective
Total
Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
GBIO-1000 Principles of Biology
MATH-3610 Linear Algebra3
MATH 4710 Pool Variables I
MATH-4710 Real Variables I3
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34 Fourth year:
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34 Fourth year: MATH-4800 Capstone Experience in Mathematics 3
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34 Fourth year: MATH-4800 Capstone Experience in Mathematics 3 History Elective 3
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34 Fourth year: MATH-4800 Capstone Experience in Mathematics 3 History Elective 3 Mathematics Electives 15
MATH-4710 Real Variables I 3 PHYS-2130 General Physics III 2 Humanities Elective 3 Mathematics Electives 6 Electives 4.5 Total 34 Fourth year: MATH-4800 Capstone Experience in Mathematics 3 History Elective 3

Graduate Program Pathway Option for Mathematics — Bachelor of Science

The Bachelor of Science in mathematics program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Science and Mathematics Molecular Biology

Molecular Biology

The Bachelor of Science degree with a major in molecular biology prepares students for graduate-level training in the context of a broad biological background based in a biblical worldview. This degree allows students to become holistically thinking molecular biologists and will enhance the student's depth of knowledge in this competitive and growing field.

Course requirements involve 75 hours including:
Biology Requirements59
BIO-1110 Introduction to Biology4
¹ BIO-1120 General Zoology4
(or BIO-2500 General Botany4)
BIO-2250 Cell Biology4
BIO-3300 Genetics
BIO-3710 Biochemistry4
BIO-3800 Biological Research2
(or BIO-3810 Biology Research Internship2)
BIO-4210 Advanced Cell Biology4
BIO-4300 Molecular Biology of the Cell4
*BIO-4800 Senior Seminar — Biology1
CHEM-1110, 1120 General Chemistry I and II8
CHEM-3510, 3520 Organic Chemistry I and II8
MATH-1700 Calculus and Dynamical Systems for the Life
Sciences4
PHYS-1010, 1020 College Physics I and II8
Biology electives selected from the following16
Selected from
BIO-2210 Microbiology4
BIO-4310 Eukaryotic Gene Regulation3
BIO-4350 Immunology4
BIO-4360 Infectious Disease3
Any 3000- or 4000-level BIO or ENVS electives8-9
¹ Students selecting BIO-1120 General Zoology will take this course in the freshman
year. Students selecting BIO-2500 General Botany will take this course in the
sophomore year.

*Capstone Course

Molecular Biology Major (B.S.) Curriculum Summary	
Proficiency Requirements	0–4
General Education Requirements	41
Molecular Biology Major Requirements	75
General Electives	12
Total (minimum, not including proficiency)	128

Students preparing for medicine, dentistry, optometry, or any of the **health professions** should refer to pages 210, 211 for a list of courses generally recommended for admission to professional colleges.



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Molecular Biology — B.S.

4
4
3
8
3
3
3
2
3
33
-
4
.4)
Ŕ
3 4
3
3
3
3
3
31
4
4
2
.2)
4
3
3
8
3
31
4
4
1
3
3
16
3
3
33

Graduate Program Pathway Option for Melecular Biology

The Bachelor of Science in molecular biology program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at **cedarville.edu/gradpathways**.

Department of Science and Mathematics Physics — Bachelor of Science

Physics — Bachelor of Science

The physics major prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Course requirements involve 68.5 semester hours including:	
Physics Core Requirements62.	.5
CHEM-1050 Chemistry for Engineers	
CS-1210 C++ Programming	
EGEE-2050 Circuits and Instrumentation	
MATH-1710, 1720, 2710 Calculus I, II, and III	
MATH-2740 Differential Equations	
MATH-3610 Linear Algebra3	
*PHYS-2110, 2120, 2130 General Physics I, II, and III 10	
PHYS-3110 Intermediate Physics Lab2	
PHYS-3310 Theoretical Mechanics	
PHYS-3350 Thermal Physics	
PHYS-3410 Electromagnetic Theory3	
PHYS-3510 Modern Physics3	
PHYS-3800 Research Methods in Physics1	
PHYS-4110 Advanced Physics Lab2	
PHYS-4210 Mathematical Methods for Physicists	
PHYS-4520 Quantum Mechanics3	
PHYS-4800 Senior Seminar — Physics 1	
Electives selected from the following PHYS-3000 and	
PHYS-4000-level courses	6
PHYS-3330 Acoustics3	
PHYS-4450 Optics	
PHYS-4880 Topics in Physics1–3	
*All students must earn a C+ or higher in these courses.	

B.S. Physics Curriculum Summary

Proficiency Requirements	0–4
Other General Education Requirements	
Physics Major Requirements	
Electives	
Total (minimum, not including proficiency)	128



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Physics — B.S.

First year: BTGE-1725 The Bible and the Gospel . CHEM-1050 Chemistry for Engineers COM-1100 Fundamentals Speech CS-1210 C++ Programming ENG-1400 Composition MATH-1710,1720 Calculus I and II PEF-1990 Physical Activity and Healthy PHYS-2110 General Physics I Total	
Second year: BTGE-2730 Old Testament Literature BTGE-2740 New Testament Literature EGEE-2050 Circuits and Instrumentation GBIO-1000 Principles of Biology GSS-1100 Politics and American Culture MATH-2710 Calculus III MATH-2740 Differential Equations PHYS-2120, 2130 General Physics II an PHYS-3310 Theoretical Mechanics Total	
Third year: BTGE-3755 Theology I	3 s 3 3 3 3 3 2 3 3 5 3 5 6
Fourth year: PHYS-4110 Advanced Physics Lab PHYS-4210 Mathematical Methods for F PHYS-4520 Quantum Mechanics PHYS-4800 Senior Seminar — Physics History Elective/Global Awareness Elect Humanities Elective Physics Electives Social Science Elective Electives Total	Physicists 3

Graduate Program Pathway Option for Physics — Bachelor of Science

The Bachelor of Science in physics program offers an accelerated pathway to the Master of Business Administration degree. You may view a sample curriculum plan at cedarville.edu/ gradpathways.

DepartmentofScienceandMathematicsTeacherEducationLicensureProgramsAdolescentandYoungAdult

Teacher Education Licensure Programs Adolescent and Young Adult

The Department of Science and Mathematics joins with the School of Education to offer adolescent/young adult licensure programs in the following areas:

- Chemistry
- · Life Science
- · Mathematics Integrated
- Physical Science
- Physics
- Science Comprehensive Integrated

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:

Teacher Education	
EDSE-3000 Principles of Teaching AYA Learners	4
EDSE-4450 Adolescent/Young Adult Field Experience	2
EDSE-4900 Student Teaching and Seminar: AYA	12
EDSP-2100 Exceptionalities and Behavior	2
EDSP-4250 Communication, Collaboration and Inclusion	2
EDUC-1000 The Education Profession	2
EDUC-1050 Preliminary Student Involvement	0
EDUC-2050 Teaching Diverse Learners	2
EDUC-2100 e-Learning for Educators	
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	3
EDUC-3100 Philosophical Foundations of Education	3
EDUC-3200 Faith and Learning Alignment	1
EDUC-4000 Reading and Writing in the	
Disciplines: AYA and Multi-Age	3
Specific information regarding admission to the Teacher	

Specific information regarding admission to the Teacher Education Program and course descriptions is located in the School of Education section (page 90).

Chemistry Education (Bachelor of Arts)

The **chemistry education major** prepares students to engage the culture as chemistry teachers in the middle school and high school setting, in both public and private institutions. The goal of the program is to prepare future educators with a heart for Christ and a high view of God's Word.

Course we suring meants in value 40 F compactor leaving in all editors	
Course requirements involve 46.5 semester hours including:	
Chemistry Core Requirements	16.5
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-2210 Analytical Chemistry I	3
CHEM-2800 Introduction to Research in Chemistry	1
CHEM-3210 Environmental Chemistry	4
CHEM-3410 Inorganic Chemistry	3
CHEM-3510, 3520 Organic Chemistry I and II	8
*CHEM-4800 Senior Seminar — Chemistry	1
GBIO-1000 Principles of Biology	
MATH-1700 Calculus and Dynamical Systems for	
the Life Sciences	4
PHYS-1010, 1020 College Physics I and II	
SCED-3120 Teaching Science for Adolescent and Young Adult	3
Teacher Education	41
*Capstone Course	

Chemistry Education (B.A.) Summary	
Proficiency Requirements	0–4
General Education Requirements	38–46
Chemistry Education Major Requirements	46.5
Teacher Education Requirements	41
General Electives	
Total (minimum, not including proficiency) .	128

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Chemistry Education

First year:
BTGE-1725 The Bible and the Gospel3
CHEM-1110, 1120 General Chemistry I and II8
COM-1100 Fundamentals of Speech3
EDUC-1000 The Education Profession2
EDUC-1050 Preliminary Student Involvement
ENG-1400 Composition
GBIO-1000 Principles of Biology
GSS-1100 Politics and American Culture3
MATH-1700 Calculus & Dynamical Systems for the Life Sciences4
PEF-1990 Physical Activity and Healthy Living2
Total31.5
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
CHEM-2210 Analytical Chemistry I
CHEM-2800 Introduction to Research in Chemistry1
EDSP-2100 Exceptionalities and Behavior
EDUC-2050 Teaching Diverse Learners
EDUC-2100 e-Learning for Educators
EDUC-2300 Assessment and Differentiation2
EDUC-2500 Educational Psychology3
PHYS-1010, 1020 College Physics I and II8
Electives
Total
Third year:
Third year:
Third year: BTGE-3755 Theology I3
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3
Third year: BTGE-3755 Theology I
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year:
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year: CHEM-4800 Senior Seminar — Chemistry 1
Third year: BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year:
Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year: CHEM-4800 Senior Seminar — Chemistry 1 EDSE-4450 Adolescent/Young Adult Field Experience 2
Third year: BTGE-3755 Theology I
Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year: CHEM-4800 Senior Seminar — Chemistry 1 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2
Third year: BTGE-3755 Theology I
Third year: 3 BTGE-3755 Theology I 3 BTGE-3765 Theology II 3 CHEM-3210 Environmental Chemistry 4 CHEM-3410 Inorganic Chemistry 3 CHEM-3510, 3520 Organic Chemistry I and II 8 EDSE-3000 Principles of Teaching AYA Learners 4 HUM-1400 Introduction to the Humanities 3 LIT-2XXX Literature Elective 3 SCED-3120 Teaching Science for Adolescent and Young Adult 3 Total 34 Fourth year: CHEM-4800 Senior Seminar — Chemistry 1 EDSE-4450 Adolescent/Young Adult Field Experience 2 EDSE-4900 Student Teaching and Seminar: AYA 12 EDSP-4250 Communication, Collaboration and Inclusion 2 EDUC-3100 Philosophical Foundations of Education 3 EDUC-3200 Faith and Learning Alignment 1
Third year: BTGE-3755 Theology I

Department of Science and Mathematics Life Science Education

Life Science Education (Bachelor of Arts)

Course requirements involve 59.5 semester hours including:	
Biology Core Requirements	33
BIO-1110 Introduction to Biology	. 4
BIO-1120 General Zoology	. 4
BIO-2250 Cell Biology	. 4
BIO-2500 General Botany	. 4
BIO-2600 General Ecology	. 4
BIO-3300 Genetics	. 4
BIO-3710 Biochemistry	. 4
*BIO-4800 Senior Seminar — Biology	. 1
Biology electives selected from the following	. 4
BIO-3410 Parasitology and Invertebrate Zoology3	
BIO-3450 Human Structure and Function I4	
BIO-3460 Human Structure and Function II3	
BIO-3510 Plant Physiology3	
BIO-3520 Plant Taxonomy3	
BIO-3610 Ecophysiology3	
BIO-4300 Molecular Biology of the Cell4	
BIOA-3600 Topics in Environmental Biology4	
Physical Science/Mathematics/Science Methods	.26.5
CHEM-1110, 1120 General Chemistry I and II	. 8
CHEM-3510 Organic Chemistry I	
GSCI-1010 Principles of Earth Science	3.5
GMTH-1030 Precalculus	
PHYS-1010 College Physics I	
SCED-3120 Teaching Science	. 3
Teacher Education	41
*Capstone Course	

Life Science Education Summary

0–4
38-46
59.5
41
138.5



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Life Science Education

First year:	
BTGE-1725 The Bible and the Gospel	3
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
CHEM-1110, 1120 General Chemistry I and II	8
EDUC-1000 The Education Profession	2
EDUC-1050 Preliminary Student Involvement	
ENG-1400 Composition	
GMTH-1030 Precalculus	
GSS-1100 Politics and American Culture	
PEF-1990 Physical Activity and Healthy Living	
Total	33
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	
BIO-2250 Cell Biology	
BIO-2500 General Botany	
BIO-2600 General Ecology	4
CHEM-3510 Organic Chemistry I	4
COM-1100 Fundamentals of Speech	
EDSP-2100 Exceptionalities and Behavior	2
EDUC-2050 Teaching Diverse Learners	
EDUC-2100 e-Learning for Educators	
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	
Total	
Third was a	
Third year:	2
BTGÉ-3755 Theology I	
BTGÉ-3755 Theology I	3
BTGÉ-3755 Theology I	3 4
BTGÉ-3755 Theology I	3 4 4
BTGÉ-3755 Theology I	3 4 4
BTGÉ-3755 Theology I	3 4 4 4
BTGÉ-3755 Theology I	3 4 4 4 3.5
BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDSE-3000 Principles of Teaching AYA Learners. GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I	3 4 4 4 3.5 3
BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDSE-3000 Principles of Teaching AYA Learners GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives	3 4 4 3.5 3 4
BTGÉ-3755 Theology I BTGE-3765 Theology II BIO-3300 Genetics BIO-3710 Biochemistry EDSE-3000 Principles of Teaching AYA Learners. GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities. PHYS-1010 College Physics I	3 4 4 3 3 4 4
BTGÉ-3755 Theology I. BTGE-3765 Theology II. BIO-3300 Genetics BIO-3710 Biochemistry EDSE-3000 Principles of Teaching AYA Learners. GSCI-1010 Principles of Earth Science HUM-1400 Introduction to the Humanities PHYS-1010 College Physics I Biology Electives LIT-2XXX Literature Elective	3 4 4 3.5 3 4 3
BTGÉ-3755 Theology I	3 4 4 3.5 3 4 3
BTGÉ-3755 Theology I	3 4 4 3.5 3 4 3 3
BTGÉ-3755 Theology I. BTGE-3765 Theology II. BIO-3300 Genetics	3 4 4 3.5 3 4 3 3 8.5
BTGÉ-3755 Theology I. BTGE-3765 Theology II. BIO-3300 Genetics	3 4 4 3.5 3 4 3 8.5
BTGÉ-3755 Theology I. BTGE-3765 Theology II. BIO-3300 Genetics	3 4 4 3.5 3 4 3 3 8.5
BTGÉ-3755 Theology I. BTGE-3765 Theology II. BIO-3300 Genetics	3 4 4 3 3 4 3 3 8.5 1
BTGÉ-3755 Theology I	3 4 4 3 3 3 4 3 3 8.5 1 2 2
BTGÉ-3755 Theology I	3 4 4 3 3 3 4 3 3 8.5 1 2 2
BTGÉ-3755 Theology I	3 4 4 3 3 4 3 3 8.5 1 2 2 2
BTGÉ-3755 Theology I	3 4 4 3.5 3 3 3 3 3 3 3 3 3
BTGÉ-3755 Theology I	344 3.533 8.5 12 123133
BTGÉ-3755 Theology I	34433 8.5 12 123133

Department of Science and Mathematics Mathematics Education — Integrated

Mathematics Education — Integrated (Bachelor of Arts)

Course requirements involve 52 semester hours including:	40
Mathematics Core Requirements	42
MATH-1710 Calculus I	
MATH-1720 Calculus II	
MATH-1990 Beautiful Math Structures and Thinking	
MATH-2210 Logic and Methods of Proof	
MATH-2710 Calculus III	. 3
*MATH-3050 Algebraic Structures for Secondary Education	. 4
MATH-3110 Probability and Statistics	
MATH-3800 Research Methods in Mathematics	
MATH-4410 Euclidean and Non-Euclidean Geometry	. 3
**MATH-4800 Capstone Experience in Mathematics	. 3
Mathematics Electives	. 6
PHYS-2120 General Physics II4	
Any MATH-3XXX/4XXX course not already required 3-6	
One course Selected From the Following	
MATH-3550 Discrete Mathematics: Graph Theory3	
MATH-3560 Discrete Mathematics: Combinatorics3	
Computer/Math Methods/Physics	10
CS-1210 C++ Programming	. 2
MATH-2800 LaTeX for Technical Documents	. 1
MTED-3120 Teaching Mathematics	. 3
PHYS-2110 General Physics I	
Teacher Education	
*A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and	
MATH-4610.	
**Capstone Course	



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Mathematics Education (Integrated)

First year:	
BTGE-1725 The Bible and the Gospel	3
COM-1100 Fundamentals of Speech	3
CS-1210 C++ Programming	
EDSP-2100 Exceptionalities and Behavior	
EDUC-1000 The Education Profession.	
EDUC-1050 Preliminary Student Involvement	
ENG-1400 Composition	ა
GBIO-1000 Principles of Biology	3.5
MATH-1990 Beautiful Math Structures and Thinking	10
MATH-2800 LaTeX for Technical Documents (computer elective)	
Total	
10tal	2.5
Second year:	
BTGE-2730 Old Testament Literature	3
BTGE-2740 New Testament Literature	3
EDUC-2050 Teaching Diverse Learners	2
EDUC-2100 e-Learning for Educators	3
EDUC-2300 Assessment and Differentiation	2
EDUC-2500 Educational Psychology	
GSS-1100 Politics and American Culture	3
MATH-2210 Logic and Methods of Proof	3
MATH-2710 Calculus III	3
MATH-3800 Research Methods in Mathematics	1
PEF-1990 Physical Activity and Healthy Living	
PHYS-2110 General Physics I	4
Total	32
	32
Third year:	
Third year: BTGE-3755 Theology I	3
Third year: BTGE-3755 Theology I EDSE-3000 Principles of Teaching AYA Learners	3 4
Third year: BTGE-3755 Theology I EDSE-3000 Principles of Teaching AYA Learners EDUC-3100 Philosophical Foundations of Education	3 4 3
Third year: BTGE-3755 Theology I EDSE-3000 Principles of Teaching AYA Learners EDUC-3100 Philosophical Foundations of Education HUM-1400 Introduction to the Humanities	3 4 3
Third year: BTGE-3755 Theology I EDSE-3000 Principles of Teaching AYA Learners EDUC-3100 Philosophical Foundations of Education HUM-1400 Introduction to the Humanities LIT-2XXX Literature Elective	3 4 3
Third year: BTGE-3755 Theology I EDSE-3000 Principles of Teaching AYA Learners EDUC-3100 Philosophical Foundations of Education HUM-1400 Introduction to the Humanities LIT-2XXX Literature Elective MATH-3050 Algebraic Structures for Secondary Education	3 3 3
Third year: BTGE-3755 Theology I	3 4 3 3
Third year: BTGE-3755 Theology I	3 3 3 4 3
Third year: BTGE-3755 Theology I	3 3 3 4 3
Third year: BTGE-3755 Theology I	3 3 3 4 3
Third year: BTGE-3755 Theology I	3 3 3 4 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 3 3 3 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 4 3 3 3 3 3 3
Third year: BTGE-3755 Theology I	3 4 3 3 3 3 3 3

Department of Science and Mathematics Physical Science Education

Physical Science Education (Bachelor of Arts)

Course requirements involve 64.5 semester hours including:
Physical Science Core64.5
GBIO-1000 Principles of Biology
(or BIO-1110 Introduction to Biology4)
CHEM-1110, 1120 General Chemistry I and II8
CHEM-3510 Organic Chemistry I4
GEOL-1110 Introduction to Physical Geology4
GEOL-1120 Historical Geology4
ESCI-2310 Introduction to Oceanography4
ESCI-2510 Introductory Astronomy 4
MATH-1710, 1720 Calculus I and II 10
MATH-2740 Differential Equations
PHYS-2110, 2120, 2130 General Physics I, II, and III 10
PHYS-3110 Intermediate Physics Lab2
PHYS-3510 Modern Physics3
SCED-3120 Teaching Science
Research methods selected from the following 1
CHEM-2800 Introduction to Research in Chemistry1
PHYS-3800 Research Methods in Physics1
Senior capstone experience selected from the following 1
*CHEM-4800 Senior Seminar — Chemistry1
*PHYS-4800 Senior Seminar — Physics1
Teacher Education41
*Capstone Course
Physical Science Education Curriculum Summary
Proficiency Requirements0-5
General Education Requirements38–46
Physical Science Education Major Requirements64.5
Teacher Education Requirements41

Total (minimum, not including proficiency)143.5

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Physical Science Education — B.A.

First year:
BTGE-1725 The Bible and the Gospel3
CHEM-1110, 1120 General Chemistry I and II8
COM-1100 Fundamentals of Speech
EDUC-1000 The Education Profession2
EDUC-1050 Preliminary Student Involvement0
ENG-1400 Composition
MATH-1710, 1720 Calculus I and II
PEF-1990 Physical Activity and Healthy Living
Total
10tai
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature
GBIO-1000 Principles of Biology
(or BIO-1110 Introduction to Biology4) CHEM-3510 Organic Chemistry I4
EDSP-2100 Exceptionalities and Behavior
EDUC-2050 Teaching Diverse Learners
EDUC-2100 e-Learning for Educators
EDUC-2300 Assessment and Differentiation2
EDUC-2500 Educational Psychology3
ESCI-2310 Introduction to Oceanography4
MATH-2740 Differential Equations
PHYS-2120, 2130 General Physics II and III6
Total
Third year:
BTGÉ-3755 Theology I3
BTGE-3765 Theology II
EDSE-3000 Principles of Teaching AYA Learners4
ESCI-2510 Introduction to Astronomy4
GEOL-1110 Introduction to Physical Geology4
GEOL-1120 Historical Geology
PHYS-3510 Modern Physics
PHYS-3800 Research Methods in Physics
(or CHEM-2800 Introduction to Research in Chemistry
History Elective3
LIT-2XXX Literature Elective
Social Science/Global Awareness Elective3
Total
Fourth year:
EDSE-4450 Adolescent/Young Adult Field Experience
EDSE-4900 Student Teaching and Seminar: AYA
EDSP-4250 Communication, Collaboration and Inclusion2
EDUC-3100 Philosophical Foundations of Education
EDUC-3200 Faith and Learning Alignment
EDUC-4000 Reading and Writing in the
Disciplines: AYA and Multi-Age
GSS-1100 Politics and American Culture
PHYS-3110 Intermediate Physics Lab
PHYS-4800 Senior Seminar — Physics
SCED-3120 Teaching Science
Total

Department of Science and Mathematics Physics Education

Physics Education (Bachelor of Arts)

Course requirements involve 60 semester nours including:	
Physics Core Requirements	26
PHYS-2110, 2120, 2130 General Physics I, II, and III	. 10
PHYS-3110 Intermediate Physics Lab	2
PHYS-3310 Theoretical Mechanics	3
PHYS-3410 Electromagnetic Theory	
PHYS-3510 Modern Physics I	
PHYS-3800 Research Methods in Physics	
PHYS-4800 Senior Seminar — Physics	1
Physics electives selected from the following	
PHYS-3350 Thermal Physics	
PHYS-4210 Mathematical Methods for Physicists	
PHYS-4450 Optics	3
PHYS-4520 Quantum Mechanics	
*PHYS-4880 Topics in Physics1-	3
Departmental Requirements	
GBIO-1000 Principles of Biology	
CHEM-1110, 1120 General Chemistry I and II	
GSCI-1010 Principles of Earth Science	
MATH-1710, 1720, 2710 Calculus I, II, and III	
MATH-2740 Differential Equations	
SCED-3120 Teaching Science	
Teacher Education	41
*Capstone Course	
Physics Education Curriculum Summary	
Proficiency Requirements	0-4
Other General Education Requirements	
Physics Education Major Requirements	60
Teacher Education Requirements	
Total (minimum, not including proficiency)	139

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Physics Education — B.A.

_
First year:
BTGE-1725 The Bible and the Gospel3
CHEM-1110, 1120 General Chemistry I and II8
COM-1100 Fundamentals of Speech3
EDUC-1000 The Education Profession2
EDUC-1050 Preliminary Student Involvement0
ENG-1400 Composition3
MATH-1710, 1720 Calculus I and II10
PEF-1990 Physical Activity and Healthy Living2
PHYS-2110 General Physics I4
Total35
Second year:
BTGE-2730 Old Testament Literature3
BTGE-2740 New Testament Literature3
EDSP-2100 Exceptionalities and Behavior2
EDUC-2050 Teaching Diverse Learners2
EDUC-2100 e-Learning for Educators3
EDUC-2300 Assessment and Differentiation2
EDUC-2500 Educational Psychology3
GBIO-1000 Principles of Biology
GSS-1100 Politics and American Culture3
MATH-2710 Calculus III3
MATH-2740 Differential Equations
PHYS-2120, 2130 General Physics II and III6
Total36.5
Third year:
BTGE-3755 Theology I3
BTGE-3765 Theology II
EDSE-3000 Principles of Teaching AYA Learners4
GSCI-1010 Principles of Earth Science
HUM-1400 Introduction to the Humanities
PHYS-3110 Intermediate Physics Laboratory2
PHYS-3310 Theoretical Mechanics
PHYS-3510 Modern Physics3
PHYS-3800 Research Methods in Physics1
History Elective3
LIT-2XXX Literature Elective
Social Science/Global Awareness Elective3
Total
Fourth year:
EDSE-4450 Adolescent/Young Adult Field Experience
EDSE-4900 Student Teaching and Seminar: AYA
EDSP-4250 Communication, Collaboration and Inclusion
EDUC-3100 Philosophical Foundations of Education
EDUC-3200 Faith and Learning Alignment
EDUC-4000 Reading and Writing in the
Disciplines: AYA and Multi-Age3
PHYS-3410 Electromagnetic Theory
PHYS-3410 Electromagnetic Theory
POED 2100 Teaching Science
SCED-3120 Teaching Science
Physics Elective

Department of Science and Mathematics Science Comprehensive Education — Integrated

Science Comprehensive Education — Integrated (Bachelor of Arts)

Course requirements involve 71 semester hours including:	
Core Requirements	61
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BIO-2500 General Botany	4
BIO-2600 General Ecology	
BIO-3300 Genetics	
*BIO-4800 Senior Seminar — Biology	
CHEM-1110, 1120 General Chemistry I and II	
CHEM-2800 Introduction to Research in Chemistry	
CHEM-3510 Organic Chemistry I	
CHEM-3710 Biochemistry	
ESCI-2510 Introductory Astronomy	4
GEOL-1110 Introduction to Physical Geology	4
GMTH-1030 Precalculus	4
PHYS-1010, 1020 College Physics I and II	8
SCED-3120 Teaching Science	3
Electives selected from the following	
One biology selected from the following	
BIO-3410 Parasitology and Invertebrate Zoology	
BIO-3450 Human Structure and Function I	
BIO-3510 Plant Physiology	
BIO-3520 Plant Taxonomy	
BIO-3610 Ecophysiology	.3
BIO-4300 Molecular Biology of the Cell	.4
BIOA-3600 Topics in Environmental Biology	
One chemistry selected from the following	
CHEM-2210 Analytical Chemistry I	3
CHEM-3520 Organic Chemistry II	4
One earth science selected from the following	
GEOL-1120 Historical Geology	
ESCI-2310 Introduction to Oceanography	
ESCI-2410 General Meteorology	
Teacher Education	41
*Capstone Course	
Colones Community Education Intervated Comm	
Science Comprehensive Education — Integrated Summ	ary
Proficiency Requirements	
General Education Requirements	
Science Comprehensive Education Major Requirements Teacher Education Requirements	
Total (minimum, not including proficionary)	450
Total (minimum, not including proficiency)	150



A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Science Comprehensive Education

First year: BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4 3
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-2800 Introduction to Research in Chemistry	
EDUC-1050 Preliminary Student Involvement	0
ENG-1400 Composition	
GMTH-1030 Precalculus	4
GSS-1100 Politics and American Culture PEF-1990 Physical Activity and Healthy Living	
Total	
Second year:	
BIO-2500 General Botany	
BIO-2600 General Ecology	
BTGE-2740 New Testament Literature	3
CHEM-3510 Organic Chemistry I COM-1100 Fundamentals of Speech	
EDSP-2100 Exceptionalities and Behavior	
EDUC-2050 Teaching Diverse Learners	
EDUC-2300 Assessment and Differentiation	
EDUC-2500 Educational Psychology	3
ESCI-2510 Introductory Astronomy	
	-
Third year:	
Third year: BIO-3300 Genetics	
BIO-3300 Genetics	3
BIO-3300 Genetics	3 3 4
BIO-3300 Genetics	3 3 4
BIO-3300 Genetics	3 4 4
BIO-3300 Genetics	3 4 4 3
BIO-3300 Genetics	3 4 4 3
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective Chemistry Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective	3 4 3 3 3
BIO-3300 Genetics	3 4 3 3 3
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective Chemistry Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year:	3 4 3 3 3 3
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners. CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective Chemistry Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience	3 4 3 3 3 3 41 1
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective Chemistry Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA	3 4 3 3 3 3 3 41
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II. EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry. HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective LIT-2XXX Literature Elective. Social Science/Global Awareness Elective. Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion. EDUC-3100 Philosophical Foundations of Education.	3 4 3 3 3 3 41 1 2 2
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II. EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective Chemistry Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion EDUC-3100 Philosophical Foundations of Education EDUC-3200 Faith and Learning Alignment	3 4 3 3 3 3 41 1 2 2
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II. EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry. HUM-1400 Introduction to the Humanities. PHYS-1010, 1020 College Physics I and II. Biology Elective. Chemistry Elective. LIT-2XXX Literature Elective. Social Science/Global Awareness Elective. Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience. EDSE-4900 Student Teaching and Seminar: AYA. EDSP-4250 Communication, Collaboration and Inclusion. EDUC-3100 Philosophical Foundations of Education. EDUC-3200 Faith and Learning Alignment. EDUC-4000 Reading and Writing in the	3 4 3 3 3 3 3 1 2 2 2
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities. PHYS-1010, 1020 College Physics I and II Biology Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective. Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion EDUC-3100 Philosophical Foundations of Education EDUC-3200 Faith and Learning Alignment EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age SCED-3120 Teaching Science	3 4 3 3 3 3 3 3 3
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities PHYS-1010, 1020 College Physics I and II Biology Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective. Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion EDUC-3100 Philosophical Foundations of Education EDUC-3200 Faith and Learning Alignment EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age SCED-3120 Teaching Science Earth Science Elective	3 4 3 3 3 3 3 3 3 3 3 3 3 3
BIO-3300 Genetics BTGE-3755 Theology I BTGE-3765 Theology II EDSE-3000 Principles of Teaching AYA Learners CHEM-3710 Biochemistry HUM-1400 Introduction to the Humanities. PHYS-1010, 1020 College Physics I and II Biology Elective LIT-2XXX Literature Elective Social Science/Global Awareness Elective. Total Fourth year: BIO-4800 Senior Seminar — Biology EDSE-4450 Adolescent/Young Adult Field Experience EDSE-4900 Student Teaching and Seminar: AYA EDSP-4250 Communication, Collaboration and Inclusion EDUC-3100 Philosophical Foundations of Education EDUC-3200 Faith and Learning Alignment EDUC-4000 Reading and Writing in the Disciplines: AYA and Multi-Age SCED-3120 Teaching Science	3 4 3 3 3 3 3 3 3 3

Department of Science and Mathematics Minors

Minors

The minors in the Department of Science and Mathematics are designed to provide nonmajors with additional background in the biological sciences, mathematics, and physical sciences.

Actuarial Science Minor

Course requirements for the actuarial science mind	or involve
41 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
FIN-3710 Principles of Finance	3
GMTH-3100 Theory of Interest	
MATH-1710, 1720, 2710 Calculus I, II, and III	
MATH-3120 Theory of Probability	
MATH-3610 Linear Algebra	
MATH-4130 Mathematical Statistics	

Biology Minor

Course requirements for the **biology minor** involve 19 semester hours including:

BIO-1110 Introduction to Biology......4

MRKT-3600 Principles of Marketing3

Biology Electives	3
BIO-2600 General Ecology	4
BIO-2500 General Botany	4
BIO-1120 General Zoology	4
BIO-1110 Introduction to Biology	

Chemistry Minor

CHEM-2XXX,3XXX,4XXX Electives......3

Earth Science Minor

Geology Minor

Mathematics Minor

Physics Minor

Special Programs

Preagriculture Curriculum

The **preagriculture curriculum** is designed to satisfy the technical and non-technical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The preagriculture students should confer with their advisor to select electives based on the following criteria:

- The requirements of the school to which they will transfer after leaving Cedarville University
- The specific agricultural program they wish to enter Course requirements include core requirements and an emphasis in either agriculture business or agriculture science. Core requirements include:

BTGE-1725 The Bible and the Gospel	3
BIO-1110 Introduction to Biology	
CHEM-1110 General Chemistry I	
ENG-1400 Composition	3
GMTH-1030 Precalculus	
(or MATH-1710 Calculus I	5)
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3

Agriculture Business Emphasis

The **agriculture business emphasis** prepares students for careers in the industry and business phases of agriculture. Course requirements include:

Two courses selected from	10
ACCT-2110 Principles of Accounting	3
BIO-1120 General Zoology	4
BIO-2500 General Botany	4
BIO-2600 General Ecology	
BIO-2210 Microbiology	
BIO-3300 Genetics	
BUS-2150 Statistics for Business	3
ECON-2330, 2340 Microeconomics and Macroeconom	ics 6
MGMT-3500 Principles of Organization and Manageme	nt 3
Humanities Electives	6
Social Science Elective	3

Agriculture Science Emphasis

The **agriculture science emphasis** prepares students for careers including agronomy, animal science, food science, and horticulture.

Course requirements include:

BIO-1120 General Zoology	4
BIO-2500 General Botany	4
BIO-2600 General Ecology	4
CHEM-3510, 3520 Organic Chemistry I and II	8
MATH-1720 Calculus II	5
MATH-3110 Probability and Statistics	3
Biological Science Elective	4
(or CHEM-3710 Biochemistry	4)
Humanities Elective	
Social Science Elective	3

Department of Science and Mathematics Special Programs

Environmental Biology Emphasis

The **environmental biology emphasis**, within the biology major, provides undergraduate preparation for students who wish to emphasize the biological sciences while pursuing careers in such fields as conservation biology, wildlife biology, environmental toxicology, and environmental health.

toxicology, and on international floatin	
BIO-3800 Biological Research	
Electives selected from	1
BIO-2210 Microbiology	
BIO-3410 Parasitology & Invertebrate Zoology	3
BIO-3420 Comparative Vertebrate Anatomy and Physiology	4
BIO-3520 Plant Taxonomy	3
BIO-3610 Ecophysiology	
BIO-4910 Environmental Biology Internship	
*BIOA-3220 Aquatic Biology	4
*BIOA-4710 Conservation Biology	4
*BIOA-4820 Restoration Ecology	4
ENVS-3100 Introduction Geographic Information Systems	
ENVS-3200 Advanced Ecology	

*Course provided by Cedarville University in partnership with AuSable Institute. Additional elective courses may be completed in May or Summer sessions at AuSable Institute by approval of the student's academic advisor.





Prephysician Assistant

Cedarville students who successfully apply to physician assistant school typically choose a degree in biology or in allied health (offered by the School of Allied Health). Students should contact the specific schools they wish to attend to determine the exact prerequisites as well as the required number of direct healthcare hours as these vary from one program to another. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biology Courses:

BIO-1110 Introduction to Biology4
GBIO-2010, 2015 Human Anatomy & Physiology I and II8
(or BIO-3450, 3460 Human Structure and Function I and II 8)
BIO-2210 Microbiology4

Chemistry Courses:

CHEM-1110, 1120 General Chemistry I and II8	
CHEM-3510 Organic Chemistry I4	
CHEM-3710 Biochemistry4	

Mathematics Courses:

manional contract	
GMTH-1030 Precalculus4	ļ

Psychology Courses:

PYCH-1600 General Psychology3	
PYCH-2600 Human Development: Lifespan3	
PYCH-2610 Statistics3	

Other:

ALHL-2000 Medical Terminology	3
GBIO-3100 Pre-Health Professional Development II	
(or ALHL-4960 Senior Seminar	1)



Department of Science and Mathematics Special Programs

Predental, Premedical, Preoptometric

Cedarville University students have been successful in gaining admission to medical and professional schools. For many of these schools, no specific major is required; however, students typically choose majors in biology or chemistry. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biol	loav	Courses:

BIO-1110 Introduction to Biology	4
BIO-2250 Cell Biology	4
BIO-3450, 3460 Human Structure and Function I and II	8
Sample of Optional Electives:	
BIO-1120 General Zoology	4
BIO-2210 Microbiology	
BIO-3300 Genetics	
BIO-4350 Immunology	4
BIO-4260 Infectious Diseases	3
BIO-4450 Introduction to Human Gross Anatomy	2
Chemistry and Physics Courses:	
CHEM-1110, 1120 General Chemistry I and II	8
CHEM-3510, 3520 Organic Chemistry I and II	
CHEM-3710 Biochemistry	
PHYS-1010, 1020 College Physics I and II	
(or PHYS-2110, 2120 General Physics I and II	
Mathematics Courses (2 semesters from the following opti	ons).
GMTH-2110 Introduction to Biostatistics	

Other:

Students survey different medical professions and programs, learn about Cedarville's pre-health professions committee, and are guided through the graduate school application process. These courses are designed for students interested in medicine, dentistry, and optometry.

GBIO-1100 Pre-Health Professional
Development I (FA, First year)
GBIO-3100 Pre-Health Professional
Development II (FA. Third year)



Preveterinary

Cedarville University students have been successful in gaining admission to veterinary schools. For many of these schools, no specific major is required; however, students typically choose majors in biology or chemistry. An ACT composite score of at least 25 (or SAT composite of 1150) is highly recommended. In addition to general degree requirements, the following courses are typically required or recommended for admission:

Biology Courses:

Diology Courses.	
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BIO-2210 Microbiology	
BIO-2250 Cell Biology	
BIO-3300 Genetics	
BIO-3410 Parasitology / Invertebrate Zoology	3
BIO-3610 Ecophysiology	3
BIO-3420 Comparative Vertebrate Anatomy and Physiology	

Chemistry & Physics Courses:

CHEM-1110, 1120 General Chemistry I and II	8
CHEM-3510, 3520 Organic Chemistry I and II	8
CHEM-3710 Biochemistry	4
PHYS-1010, 1020 College Physics I and II	8
(or PHYS-2110, 2120 General Physics I and II	





Department of Social Work

Mission Statement	218
Department Objectives	218
Personal Requirements	218
Department Requirements	218
Programs of Study	218
Cocurricular Opportunities	218
Technical Resources	218

Career Opportunities	218
Faculty2	219
Major	
» Social Work2	219
Department of Social Work	
Course Descriptions	308

Department of Social Work Mission Statement

Mission Statement

The Cedarville University Department of Social Work develops competent servant leaders grounded in biblical truth to practice generalist social work in diverse settings worldwide advancing human and community well-being.

Department Objectives

Graduates of the Cedarville University Baccalaureate Social Work Program will demonstrate a basic level of competency in the profession of social work by

- Integrating faith and practice through a process of ethical reasoning while respecting spiritual diversity.
- Evaluating multiple sources of knowledge and applying strategies of ethical reasoning to integrate knowledge and practice.
- Communicating effectively with diverse individuals, groups, communities, organizations, and colleagues while being mindful of the importance of difference in shaping life experiences.
- Assuring continual professional development by practicing reflection and self-correction and managing personal values in a way that allows professional values to guide practice.
- Assessing client strengths and needs using a bio-psychosocial-spiritual model and analyzing, formulating, and advocating for policies that advance social well-being, recognizing the extent to which a culture's structures and values may oppress, marginalize, alienate, or create or enhance privilege and power.

Personal Requirements

A solid high school college preparatory program provides an excellent background for students entering the social work major.

Department Requirements

To graduate with a degree from the Department of Social Work students must earn a cumulative average of 2.5 or higher and a "C-" or higher in all courses required by the major. In addition, students must be admitted into the social work program.

Admission to the Social Work Program

Admission to the social work program occurs during the sophomore year. Freshmen and sophomores interested in social work should declare their intent to major in social work and meet with an appropriate advisor to ensure that courses are taken in the proper sequence.

Admission Requirements and Procedures

- Complete at least 41.5 hours of the general education requirements, including the necessary prerequisites. (Submit a summary of prerequisites.)
- Complete SWK-1100 Total Immersion Experience with a "C" or higher by the junior year.
- Complete SWK-2330 Introduction to Social Work with a "C" or higher by the junior year.
- Complete SWK-2350 Field Survey with a "C" or higher by the junior year.
- Complete SWK-2900 Ethics in the Helping Professions with a "C" or higher by the junior year.
- Complete and submit an Application for Admission to the social work program director, including an autobiographical statement detailing interest in social work.
- Submit letters of recommendation from a pastor, an employer or volunteer supervisor, and a teacher or adult friend.
- 8. Be interviewed by a minimum of two social work faculty.

- Earn a cumulative GPA of 2.25 or higher. Submit a copy of current unofficial grade transcript from CedarInfo.
- 10. Complete and document 40 hours of post high school social service volunteer experience (submit form).
- Provide a background check for the State of Ohio and an additional FBI background check for those who live out of state
- 12. Submit a social work program handbook sign-off sheet.
- 13. Submit a sign-off sheet attesting to having read the Code of Ethics and agreeing to conform to the Code of Ethics.

The final decision as to whether all requirements are adequately met for admission to and progression in the social work program will be made by the social work program director.

Programs of Study

Cedarville's social work program leads to a Bachelor of Science (B.S.) degree in social work.

Cocurricular Opportunities

Social work has two professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Epsilon Alpha Pi

Epsilon Alpha Pi is a professional organization for social work majors that seeks to promote professional development, political and social awareness, and community outreach.

Epsilon Omega

Epsilon Omega is a local chapter of Phi Alpha Honor Society, the National Social Work Honor Society, committed to promoting a high standard of education for social workers.

Technical Resources

A large number of computer software programs are available to students, including:

- · A variety of presentation programs
- Database programs
- Spreadsheet programs
- · Statistical analysis programs
- · Various search engines
- Web and HTML programs
- Word processing programs

The department prepares students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives.

Career Opportunities

Graduates of the department have attended some of the nation's outstanding graduate and professional schools. Careers pursued by graduates include:

- Administrator
- · Adoption social worker
- Children's services social worker
- · Community developer
- Crisis pregnancy counselor
- Family violence prevention case worker
- · Hospice case manager
- Medical social worker
- Mental health social worker

- Missionary
- Prison caseworker
- · Probation officer
- Refugee resettlement worker
- School social worker
- Senior citizen center outreach worker
- Sex trafficking program coordinator
- Youth pastor

Department of Social Work Faculty

Faculty

Michael E. Sherr, *Chair*; Professor of Social Work. *Education*: B.S.W., University of North Carolina, 1997; M.S.W., University of South Carolina, 1998; Ph.D., University of South Carolina, 2003. At Cedarville since 2018.

Melissa Brown, Assistant Professor of Social Work. *Education*: B.S., Cedarville University, 2008; M.S.W., The Ohio State University, 2014. At Cedarville since 2014.

George Huff, Professor of Social Work; Field Director. *Education:* B.A., Ashland University, 1973; M.S.S.A., Case Western Reserve University, 1977. Licensed Independent Social Worker-Supervisor. At Cedarville since 2000.

Sandra Wagner, Instructor of Social Work. *Education:* B.S., Cedarville University, 2013; M.S.W., Boise State University, 2018. At Cedarville since 2019.

Emeriti

Nelson Henning, Senior Professor Emeritus of Social Work. *Education:* B.S.W., Southern Illinois University, 1976; M.S.W., University of Illinois, 1977; Ph.D., University of Pittsburgh, 1986. At Cedarville since 1994.



Social Work

The **social work major** prepares students for future ministries/ careers in professional social work, professional church and church-related specializations, and informal assistance. The wide range of opportunities within the social work field provides graduates with numerous ways of investing in the lives of individuals, families, groups, and communities.

The social work program is accredited by the Council of Social Work Education. Social work graduates are eligible for licensure and for advanced standing in graduate schools of social work. Advanced standing allows students to earn a Master of Social Work degree in a little over one year.

Goals

The goal of the social work program is to prepare future professional social workers who are competent in the areas of:

- Serving diverse people, groups, and communities by treating all with dignity and respect, valuing all relationships.
- Addressing conditions that limit human rights, promoting social, economic and environmental justice worldwide, and working toward the elimination of poverty with the underpinning component of enhancing the quality of life for all people.
- Practicing with competence and integrity using scientific inquiry and evidence-based interventions.
- Applying the person and the environment construct to practice, understanding the impact poverty can have on social functioning.
- Ethically integrating faith and social work practice.



Department of Social Work Social Work

International Field Experience

The social work program offers an international field experience in India, Uganda, or Romania to junior or senior social work students. Students work in a variety of social service agencies in the host country, supervised by an on-site master's level social worker and under the direction of the Department of Social Work's international field coordinator. Courses at a local university expand the student's understanding of the host country, and planned activities further enhance the cultural experience. Students receive academic credits for the coursework and for the internship, allowing them to complete their Cedarville degree within the normal four years. The international field coordinator supports the student throughout the entire process — pre-departure, during the international experience, and after the student's return to campus.

International field experience is available over the summer break or during the school year. Students interested in international field experience should meet with their advisor as early as possible to discuss the feasibility and scheduling needs. Students should then meet with the international field coordinator to initiate the application process.

Application Requirements

Early application is advised. Students should check with the international field coordinator for the application deadline for their choice of country and desired semester. Students must have gained admission into the social work program or be on track for successful completion of all program admission requirements prior to the international experience. Applicants are required to have a GPA of at least 2.75 within their core social work courses.

Three reference letters from the following individuals are required for acceptance for an international field experience:

- · Advisor or faculty member
- Pastor
- Friend

Pre-Departure Requirements

The student will be required to meet with the international field coordinator for a minimum of four times during the semester prior to departure. Meetings will focus on the country's culture, people, climate, and other pertinent topics. The student is to complete assigned readings and come prepared for discussion. Questions of concern or interest will also be discussed during the weekly sessions.

The student must also fulfill all orientation obligations within the CU Study Abroad department.

Reentry Requirements

It is recommended the student keep their return semester as light as possible. The student and the international field coordinator will meet for re-entry at a minimum five times during the return semester. The student will be required to read and discuss *Re-Entry* by Peter Jordan.

The student must also fulfill all reentry obligations within the CU Study Abroad department.

Social Work Advisory Council

The Social Work Advisory Council consists of social work professionals, agency administrators, clergy, and educators representing public, private, and church-related service agencies. Through semi-annual meetings, these experts advise the program and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view.

Melissa D. Brown, Cedarville University, Cedarville, Ohio Rebecca DeLong, Butler County Probate Court, Hamilton, Ohio

Dan DeWitt, Cedarville University
Wendy Doolittle, McKinley Hall, Springfield, Ohio
Jane Eckels, Alzheimers Association, Dayton, Ohio
Sharon Guenther, Miami Valley Hospital, Dayton, Ohio
George Huff, Cedarville University, Cedarville, Ohio
Elizabeth Karikomi, Bethany Christian Services
Suk-hee Kim, Northern Kentucky University
Esther Lanham, Advisory Council Secretary, Cedarville
University, Cedarville, Ohio

Alisha Murray, Daybreak Inc. Mackenzie Mynhier, Student Representative Michael E. Sherr, Advisory Council Chair, Cedarville

Steve Throop, Legacy Village, Xenia, Ohio Sandra Wagner, Cedarville University

University



Department of Social Work Social Work

Social Work

Course requirements for the B.S. degree with a major in social work involve 83.5 semester hours including:

¹ BTPA-2200 Introduction to Philosophy	3
¹ GBIO-1000 Principles of Biology3	
¹ HIST-3750 Social Movements	
PYCH-1600 General Psychology	3
SOC-1300 Introduction to Sociology	3
² SWK-1100 Total Immersion Experience	1
^{1,2} SWK-2330 Introduction to Social Work	3
² SWK-2350 Field Survey	
² SWK-2900 Ethics in the Helping Professions	3
³ SWK-3010 Human Behavior and Social Environment	
³ SWK-3020 Generalist Social Work Practice with Groups	3
³ SWK-3110 Social Welfare Programs and Policy	3
³ SWK-3210 Social Work Practice with Individuals	
and Families	
³ SWK-3430 Junior Seminar I	1
³ SWK-3440 Junior Field Experience I	3
³ SWK-3450 Junior Seminar II	
³ SWK-3460 Junior Field Experience II	
³ SWK-4210 Social Work Practice with Diverse Populations	3
³ SWK-4220 Social Work Practice with Communities and	
Organizations	
3*SWK-4510 Senior Seminar I	
3*SWK-4520 Senior Seminar II	
3*SWK-4560 Senior Field Experience I	
3*SWK-4570 Senior Field Experience II	
1,3SWK-4610 Statistics for Social Workers	
3,4 SWK-4620 Social Work Research Methods	
Electives selected from	9
¹ ANTH-1800 Cultural Anthropology	
SWK-2500 Social Work with Aging Populations	
SWK-2820 Social Work in Mental Health Settings	
² SWK-2840 Concepts of Chemical Dependency	

Social Work Major Curriculum Summary

Proficiency Requirements	0–4
General Education Requirements	
Social Work Major Requirements	
Electives	6
Total (minimum, not including proficiency)	128

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.

A complete description of the general education requirements is found on page 24.

Suggested Four-Year Curriculum for a Major in Social Work

First year:	
BTGE-1725 The Bible and the Gospel	.3
BTGE-2730 Old Testament Literature	.3
COM-1100 Fundamentals of Speech	.3
ENG-1400 Composition	
GBIO-1000 Principles of Biology	3.5
HUM-1400 Introduction to the Humanities	.3
PYCH-1600 General Psychology	
PEF-1990 Physical Activity and Healthy Living	
SOC-1300 Introduction to Sociology	
SWK-1100 Total Immersion Experience	
SWK-2330 Introduction to Social Work	٠,
SWK-2350 Field Survey	
Total	
Iotal	2.5
Second year:	
BTGE-2740 New Testament Literature	3
BTPA-2200 Introduction to Philosophy	
GSS-1100 Politics and American Culture	. ડ પ્ર
HIST-3750 Social Movements	
SWK-2900 Ethics in the Helping Professions	
Physical Science Elective	
Social Work program electives	0.0
Electives	
T-4-1	
Total	3.5
	3.5
Third year:	
Third year: BTGE-3755 Theology I	.3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II	.3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective	.3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment	.3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Groups	.3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Groups SWK-3110 Social Welfare Programs and Policy	.3 .3 .3 .3 .3
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Groups. SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families	.3 .3 .3 .3 .4
Third year: BTGE-3755 Theology I	.3 .3 .3 .4 .2
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective. SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Groups. SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families SWK-3430, 3450 Junior Seminar I and II SWK-3440, 3460 Junior Field Experience I and II Science or Math Elective (Bioethics recommended) Total	.3 .3 .3 .3 .4 .2 .6
Third year: BTGE-3755 Theology I BTGE-3765 Theology II LIT-2XXX Literature Elective SWK-3010 Human Behavior and Social Environment SWK-3020 Generalist Social Work Practice with Groups. SWK-3110 Social Welfare Programs and Policy SWK-3210 Social Work Practice with Individuals and Families SWK-3430, 3450 Junior Seminar I and II SWK-3440, 3460 Junior Field Experience I and II Science or Math Elective (Bioethics recommended) Total Fourth year:	.3 .3 .3 .3 .4 .2 .6 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6 .3 33
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .4 .2 .6 .3 33
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6 .3 33
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .3 .4 .2 .6 .3 33
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6 .3 33 .4 .4 .12 .3
Third year: BTGE-3755 Theology I	.3 .3 .3 .3 .4 .2 .6 .3 33 .3 .4 .4 .12 .3 .3

¹Satisfies general education requirement.

²Available to non-majors.

³Available only to social work majors who have been accepted into the program. ⁴Satisfies the additional six semester hours required for B.S. major within the general education requirements.

⁵Additional course options are available to satisfy the elective requirement with approval from the department chair.

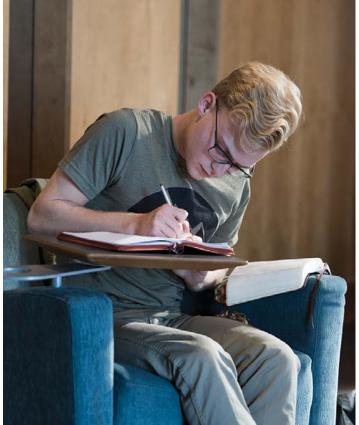
^{*}Capstone Course

Department of Social Work Social Work

Suggested Three-Year Curriculum for a Major in Social Work

Fall Year 1: BTGE-1725 The Bible and the Gospel
HIST-3750 Social Movements
PYCH-1600 General Psychology3
SWK-2330 Introduction to Social Work
Total
Spring Year 1
BTGE-2730 Old Testament Literature3
COM-1100 Fundamentals of Speech
GBIO-1000 Principles of Biology
SWK-2820 Social Work in Mental Health Settings3
SWK-2900 Ethics in the Helping Professions
Summer Year 1 BTGE-2740 New Testament Literature3
SWK-1100 Total Immersion Experience1
LIT-2XXX Literature Elective
Physical Science Elective 3.5 Total 10.5
Fall Year 2: GSS-1100 Politics and American Culture3
PEF-1990 Physical Activity and Healthy Living
SWK-2500 Social Work with Aging Populations
SWK-3010 Human Behavior and Social Environment
Science or Math Elective
Total 17
Spring Year 2.
BTGE-3755 Theology I
BTGE-3755 Theology I 3 BTPA-2200 Introduction to Philosophy 3 SWK-3020 Generalist Social Work Practice with Groups 3 SWK-3210 Social Work Practice with Individuals and Families 4 Electives 6 Total 19 Summer Year 2. 19 HUM-1400 Introduction to the Humanities 3 SWK-3430 Junior Seminar I 1 SWK-3440 Junior Field Experience I 3 SWK-3450 Junior Seminar II 1 SWK-3460 Junior Field Experience II 3 Total 11 Fall Year 3. SWK-2840 Concepts of Chemical Dependency 3 SWK-2840 Social Work Practice with Diverse Populations 3 SWK-4510 Senior Seminar I 2 SWK-4560 Senior Field Experience I 6
BTGE-3755 Theology I
BTGE-3755 Theology I 3 BTPA-2200 Introduction to Philosophy 3 SWK-3020 Generalist Social Work Practice with Groups 3 SWK-3210 Social Work Practice with Individuals and Families 4 Electives 6 Total 19 Summer Year 2. HUM-1400 Introduction to the Humanities 3 SWK-3430 Junior Seminar I 1 SWK-3440 Junior Field Experience I 3 SWK-3450 Junior Seminar II 1 SWK-3460 Junior Field Experience II 3 Total 11 Fall Year 3. SWK-2840 Concepts of Chemical Dependency 3 SWK-2840 Social Work Practice with Diverse Populations 3 SWK-4510 Senior Seminar I 2 SWK-450 Senior Field Experience I 6 SWK-4610 Statistics for Social Workers 3 Total 17 Spring Year 3: BTGE-3765 Theology II 3 SWK-4220 Social Work Practice with Communities and Organizations 4







Course Descriptions

Accounting (ACCT)	. 240	General Mathema
Adolescent / Young Adult Education (EDSE)		General Music (C
Air Force ROTC (AES)	. 286	General Science
Allied Health (ALHL)	.224	General Social Se
Anthropology (ANTH)	.278	Geography (GEO
Arabic Language (ARBC)	.272	Geology (GEOL)
Army ROTC (MIL)	. 286	German (GER)
Art (ART)		History (HIST)
Athletic Training (ATRN)		Honors (HON)
Bible and Theology — Biblical Studies (BTBS)	. 235	Humanities (HUM
Bible and Theology — New Testament (BTNT)	238	Industrial and Inr
Bible and Theology — Old Testament (BTOT)	. 239	Information Tech
Bible and Theology — History and Theology (BTHT)	. 237	International Stud
Bible and Theology — Biblical Languages (BTBL)		Journalism (JOU
Bible and Theology — Applied Theology (BTAT)	. 233	Keyboard Pedag
Bible and Theology — Applied Theology (BTAT)Bible and Theology — Christian Ministry (BTCM)	.236	Liberal Arts (LAR
Bible and Theology — Biblical Languages (BTBL)	.235	Linguistics (LING
Bible and Theology — Philosophy and Apologetics (BTPA)		Literature (LIT)
Biology (BIO)		Management (Mo
Broadcasting, Digital Media, and Journalism (BRDM)		Marketing (MRKT
Business Administration (BUS)		Mathematics (MA
Creative Writing (CWRT)		Mathematics Edu
Coaching (CCHG)		Mechanical Engi
Conducting (CDMU)		Middle Childhood
College Studies (COLL)		Multi-Age Health
Communication Studies (COM)		Multi-Age Physic
Computer Engineering (EGCP)		Music Class Stud
Criminal Justice (CRJU)		Music Education
Chemistry: Major (CHEM).		Music History (HI
Chemistry: General Education (CHEM)		Music Performan
Chinese (CHN)		Music Private Stu
Computer Science (CS)		Music Technolog
Developmental (DEV)		Music Theory (Th
Primary (P-5) Education (EDEC)		Nursing (NSG)
Earth Science (ESCI)		Prepharmacy (PF
Economics (ECON)		Physical Education
Education (EDUC)		Physical Education
Civil Engineering (EGCE)		Physics: General
Electrical Engineering (EGEE)		Physics: Major (F
English (ENG)		Political Science
Environmental Science (ENVS)		Psychology (PYC
End-User Information Systems (EUIS)		Public Administra
Exercise and Sport Science (ESS)		Science Education
Exercise and Sport Science Education (ESED)		Sociology (SOC)
Exercise and Sport Science Elective (ESSE)		Spanish (SPAN).
Exercise Science (EXSC)		Sport Manageme
Film (FILM)		Special Educatio
Finance (FIN)		Social Work (SWI
Forensic Science (FORS)		Professional Writi
French (FREN)		Theatre (THTR)
General Biology (GBIO)		Visual Communic
General Engineering (EGGN)		Worship (WSHP)

General Mathematics (GMTH)	303
General Music (GMUS)	
General Science (GSCI)	303
General Social Science (GSS)	280
Geography (GEO)	279
Geology (GEOL)	302
German (GER)	273
History (HIST)	280
Honors (HON)	28
Humanities (HUM)	289
Industrial and Innovative Design (IDES)	229
Information Technology Management (ITM)	24
International Studies (INTL)	
Journalism (JOUR)	253
Keyboard Pedagogy (KPMU)	289
Liberal Arts (LART)	28
Linguistics (LING)	274
Literature (LIT)	27
Management (MGMT)	
Marketing (MRKT)	24
Mathematics (MATH)	
Mathematics Education (MTED)	
Mechanical Engineering (EGME)	
Middle Childhood Education (EDMC)	25
Multi-Age Health Education (MAHE)	226
Multi-Age Physical Education (MAPE)	226
Music Class Studies (CLMU)	
Music Education (MUED)	
Music History (HLMU)	
Music Performance (PFMU)	
Music Private Study (PLMU)	
Music Technology (TYMU)	
Music Theory (THMU)	
Nursing (NSG)	
Prepharmacy (PPHR)	
Physical Education Activity Courses (PEAX)	
Physical Education Fitness (PEF)	
Physics: General Education (PHYS)	
Physics: Major (PHYS)	
Political Science (POLS)	
Psychology (PYCH)	294
Public Administration (PUAD)	284
Science Education (SCED)	
Sociology (SOC)	
Spanish (SPAN)	
Sport Management (SMGT)	
Special Education (EDSP)	
Social Work (SWK)	308
Professional Writing and Information Design (PWID)	
Theatre (THTR)	
Visual Communication Design (VCD)	
Worship (WSHP)	292

School of Allied Health **Course Descriptions**

Allied Health (ALHL)

ALHL-1000

1 hour

Introduction to the Allied Health Professions-Fa

Introductory course for students planning career involvement in health and health-related professions. The students will be introduced to health careers by providing descriptions of jobs, the educational and legal requirements, the work environment, and additional information about specific fields.

ALHL-2000 Medical Terminology-Fa, Sp 3 hours

An online self-paced program designed to familiarize students with vocabulary indigenous to the medical profession; including terms of anatomic/physiologic features, medical diagnosis, procedures and therapies. Prerequisite: GBIO-2010 Human Anatomy and Physiology I.

ALHL-3940 Professional Development-Sp 2 hour

This course is designed to assist students in acquiring an in-depth understanding of requirements for entry-level graduate programs in their chosen discipline, and the credentialing process for their chosen profession. Students will be introduced to the central application procedures and requirements for CASPA, PTCAS, and OTCAS.

ALHL-4960 Senior Seminar-Fa, Sp 1 hour

This course is designed to guide students in the finalization of their capstone project and its presentation before peers and faculty. Students are also encouraged to collaborate with practicing health professionals in their intended profession to seek their advice and counsel. Prerequisite: EXSC-4600 Research Methods. (Fee: \$25)

Athletic Training (ATRN)

ATRN-1300 Emergency Care-Fa, Sp

3 hours

The American Red Cross Emergency Preparedness certificate may be granted at the end of this course. (Fee: \$100) 1 hour

ATRN-1500 Introduction to Athletic Training-Fa, Sp

This course will introduce the basic concepts of the profession of athletic training. Emphasis will be placed on the history of the profession as well as the core domains of athletic training

ATRN-1550 Basic Athletic Training-Sp 3 hours An overview of the allied health profession known as athletic training. This course focuses on prevention, management, and rehabilitation of sport-related injuries. Relevant topics include

physical conditioning, evaluation, injury cycle, and superficial modalities. Prerequisite: ATRN-1500 Introduction to Athletic Training. Co-requisite: ATRN-1500 Introduction to Athletic Training.

ATRN-2560 Lower Body Injury Management-Fa

3 hours Comprehensive evaluation, management, and initial

rehabilitation of athletic injuries involving the lower portion of the human body. Prerequisites: ATRN-1550 Basic Athletic Training; GBIO-2010 Human Anatomy and Physiology I. (Fee: \$35)

ATRN-2570 Upper Body Injury Management-Sp

Comprehensive evaluation, management, and initial rehabilitation of athletic injuries involving the upper portion of the human body. Prerequisites: ATRN-1550 Basic Athletic Training; GBIO-2010 Human Anatomy and Physiology I. (Fee: \$35)

ATRN-2650 Therapeutic Exercise-Sp 3 hours

Management of injuries from the subacute phase through return to participation. Based on principles of biomechanics with emphasis on strength, flexibility, proprioception, endurance, and agility. Prerequisites: ATRN-1550 Basic Athletic Training or permission of instructor.

ATRN-2901 Clinical I-Fa

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. *Prerequisite:* ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training. (Fee: \$50)

ATRN-2902 Clinical II-Sp

2 hours

This course focuses on the application of learned principles and athletic training clinical skills. This course includes implementation and practice of specific clinical skills from the previous year to facilitate comprehensive learning. Athletic training students will be supervised and given the opportunity to practice learned skills in the clinical setting. Only for athletic training students wishing to matriculate in the athletic training education program. Prerequisite: ATRN-1500 Introduction to Athletic Training; ATRN-1550 Basic Athletic Training. (Fee: \$50)

ATRN-3500 Principles of Sport Medicine

3 hours

3 hours

An overview of the allied health profession known as athletic training. This course focuses on the principles of prevention, recognition, management and basic rehabilitation of sport-related injuries. Relevant topics include physical conditioning, evaluation and injury cycle.

Students will be broken up into teams. Content will be organized into weekly modules, in which students will complete their reading, take team quizzes in class, participate in group projects, and demonstrate competency in basic athletic training skills during LABs through practical assignments. Prerequisites: ATRN-1500 Introduction to Athletic Training; ATRN-1300 Emergency Care. (Fee: \$25)

ATRN-3550 3 hours

Organization and Administration in Athletic Training-Fa

Management of the athletic training program and facility at all levels of sport. Topics include budgets, policies, design, recordkeeping, and legal aspects of athletic training.

ATRN-3660 Therapeutic Modalities-Fa 3 hours

An overview of the modalities used in athletic training including thermal agents, electrical agents, and mechanical modalities. Prerequisite: ATRN-1550 Basic Athletic Training or permission of the instructor. (Fee: \$35)

ATRN-3770 Pharmacology-Sp

A study of the medications used to treat athletic injuries. Focuses on both prescription and non-prescription medications used in the athletic training profession.

ATRN-3903 Clinical III-Fa 2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied professional with providing services. Students are responsible for their own transportation. Prerequisites: ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management. (Fee: \$50)

ATRN-3904 Clinical IV-Sp 2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied healthcare professional with providing services. Students are responsible for their own transportation. Prerequisites: ATRN-3903 Clinical III. (Fee: \$175)

ATRN-4500 Senior Sport Medicine Capstone

2 hours

Designed for the student to demonstrate the ability to integrate the knowledge, skills and attitudes developed throughout their course of study in a final project (such as a research project and presentation) or experience (such as an internship of at least 80 clock hours). The student's academic advisor and the Department Chair must approve the project or experience based on a written proposal developed and submitted by the student prior to registering for the course. (Details for what must be included in the proposal are available in the course syllabus). Prerequisite: permission of department chair.

ATRN-4560 General Medical Issues-Fa

3 hours

Focuses on the medical issues related to allied health including, but not limited to conditions of the cardiovascular, respiratory, digestive, and urinary systems.

ATRN-4850 1-3 hours

Independent Study in Athletic Training-Fa, Sp, Su

An independent study in athletic training by students pursuing the athletic training major. Departmental approval is required.

ATRN-4905 Clinical V-Fa 2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied healthcare professional with providing services. Students are responsible for their own transportation. Prerequisites: ATRN-3904 Clinical IV. (Fee: \$50)

ATRN-4906 Clinical VI-Sp

2 hours

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to a clinical rotation site where they will be supervised by a preceptor and assist the allied healthcare professional with providing services. Students are responsible for their own transportation. Capstone Course. Prerequisites: ATRN-4905 Clinical V. (Fee: \$175)

Coaching (CCHG)

CCHG-3670 Fundamentals of Coaching-Fa

3 hours

Overview of the philosophy, psychology, organization, and general responsibilities of an athletic coach. Knowledge of motor learning and development and an overview of the organizational fundamentals of coaching for all the major sports. (even years) CCHG-3800 Coaching Techniques-Fa, Sp

This course is designed to prepare sport-specific essential skills to become an effective coach. Essential skills will include developing skill drills, offensive and defensive systems, planning practice sessions, scouting, strength and conditioning athletes, analyzing video, communicating with parents, and developing a biblically based coaching philosophy. Prerequisite: CCHG-3670 Fundamentals of Coaching.

CCHG-4850

1-3 hours

Independent Study in Coaching-Fa, Sp

Independent study in the area of coaching by students pursuing the coaching minor. Departmental approval is required.

Exercise and Sport Science Education (ESED)

ESED-2900 2 hours Health and Movement Education for the Young Child-Fa, Sp

An investigation of current trends, methods of instruction, and curriculum design in health and physical education for primary (P-5) classrooms, including review of appropriate Ohio models. Emphasis is given to the importance of nutrition, safety, and movement education for the young child, including a look at basic nutritional, health, and safety management, especially in relationship to childhood illnesses and communicable diseases. Prerequisite: EDUC-1000 The Education Profession.

Exercise and Sport Science (ESS)

ESS-1350 Introduction to Exercise Science-Fa

2 hours

Orientation to the history, philosophy, and scope of modern exercise science from a biblical perspective.

ESS-1400 First Aid and Safety Education-Fa, Sp 2 hours

American Red Cross Standard First Aid and C.P.R. certificate may be granted at the end of the course. (Fee: \$35)

ESS-2380 Motor Learning and Development-Sp 3 hours

A study of the stages in motor development and the factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition. The course provides cognitive and psychomotor knowledge of fundamental locomotor, non-locomotor, and manipulative motor skills.

ESS-3800 Sport Psychology-Fa

3 hours

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. Prerequisite: PYCH-1600 General Psychology, junior status, or permission of instructor.

ESS-3880 1-3 hours

Special Topics in Exercise and Sport Science

Investigation of special topics in exercise science that have intrinsic worth and engage student interest. Prerequisite: permission of instructor.

ESS-3890 5 hours

Human Anatomy and Physiology for the Physical Educator-Fa

This course is designed to be a study of the structure and function of the human body from a Christian theistic perspective with particular emphasis on applications and understanding for physical educators. Prerequisite: GBIO-1000 Principles of Biology. (Fee: \$25)

ESS-3900 Physiology of Exercise-Sp

A study of the physiological processes of the body and how they are affected by and adapt to varying exercise conditions. Prerequisite: GBIO-2010 Human Anatomy and Physiology I or ESS-3890 Human Anatomy and Physiology for the Physical Educator. (Fee: \$25)

ESS-3920 Biomechanics-Fa, Sp

Application of the facts and principles of basic physics to body movement, sports performance, and teaching of physical education skills. (Fee: \$25)

ESS-3940 Structural Kinesiology-Fa, Sp

Application of physical laws and analysis of human movement with special reference to anatomical principles underlying human movement. Prerequisites: GBIO-2010 Human Anatomy and Physiology I or ESS-3890 Human Anatomy and Physiology for the Physical Educator. (Fee: \$25)

ESS-4850

1-3 hours

Independent Study in Exercise and Sport Science-Fa, Sp Independent study in the area of exercise and sport science. Prerequisite: Departmental approval is required.

Exercise and Sport Science Elective (ESSE)

ESSE-1350 Foundations of Sport Ministry-Sp 3 hours

This introductory course will give an overview of sport ministry. It will explore the breadth of such a ministry as it attempts to

establish a Biblical base for sports evangelism. It will also attempt to demonstrate the balance of a spirit-filled life and the impact it can have in reaching the world with the message of Christ through sports. (even years)

ESSE-3100 Strength and Conditioning-Fa, Sp 3 hours

This course is designed to provide a comprehensive overview of strength and conditioning. Emphasis is placed on exercise selection and technique, program design, and testing and evaluation. Prerequisites: GBIO-1000 Principles of Biology, BIO-1110 Introduction to Biology, or permission of the instructor.

ESSE-4850 Independent Study in Sport Ministry 1-3 hours

Independent study in the area of Sport Ministry by students pursuing the Sport Ministry minor. *Prerequisites: Departmental approval is required.*

Exercise Science (EXSC)

EXSC-2000 Worksite Observation-Fa, Sp, Su

Students are required to arrange a field experience for five consecutive full days (minimum of 30 contact hours) in an exercise science work setting approved by their advisor where they can observe and participate in exercise science worksite activities. *Prerequisites: Departmental approval and a follow-up report are required.* Credit/no credit.

EXSC-3010 Practium I–Fa, Sp

1 hour

0 hours

This practicum is a minimum of 30 contact hours assisting or instructing on-campus experiences such as group aerobics, strength conditioning, workout supervision and personal training. Departmental approval is required. Credit/No Credit. Prerequisite: EXSC-2000 Worksite Observation.

EXSC-3020 Practicum II-Fa, Sp

1 hour

4 hours

This practicum is a minimum of 30 contact hours and is intended to provide a hands-on experience in either a sports enhancement facility, hospital cardiac rehabilitation center, or similar facility. Departmental approval is required. Credit/No Credit. Prerequisite: EXSC-2000 Worksite Observation.

EXSC-3810 3 hour

Organization and Administration of Exercise Science-Fa

This course is designed to provide the knowledge and begin to develop the skills and abilities necessary to organize, administer, manage, promote, and deliver quality health/fitness programs effectively, safely, and efficiently, meeting the needs and desires of both the client and the employer. *Prerequisites:* Junior status or permission of the instructor.

EXSC-3860 Basic Exercise Testing-Fa

This course includes guidelines and techniques of evaluation for basic fitness testing with emphasis on aerobic capacity, flexibility, strength, and body composition. Basic concepts of EKG interpretation, including electrode placement, arrhythmia, and electrophysiology, are introduced. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine certified exercise physiologist certification. *Prerequisite: ESS-3900 Physiology of Exercise; GMTH-1020 College Algebra.* (Fee:\$75)

EXSC-3870 Basic Exercise Prescription—Sp 4 hours

This course stresses the scientific foundations of conditioning with specific attention to exercise programming using the components of frequency, duration, intensity, mode, and progression, for apparently healthy individuals. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine certified exercise physiologist certification. *Prerequisite: EXSC-3860 Basic Exercise Testing.* (Fee:\$75)

EXSC-4600 Research Methods-Sp 3 hours

Designed to develop an appreciation for the importance of and need for research in exercise science. Orientation to methods and procedures utilized in exercise science research, emphasizing basic principles of conducting research using the case study, literature review and typical outcomes measurement. *Prerequisite: Junior status or permission of the instructor.*

EXSC-4700 Senior Research-Fa

3 hours

Students will work with a faculty mentor to conduct a research project, write a paper, and present the project for peers and faculty. The opportunity to present at conferences and/or publish the paper exists for those interested. *Prerequisite: EXSC-4600 Research Methods.* (Fee: \$35)

EXSC-4850

1-3 hours

Independent Study in Exercise Science-Fa, Sp

Independent study in the area of exercise science by students pursuing the exercise science major. *Prerequisite: Departmental approval is required.*

EXSC-4880 3 hours

Exercise Testing and Prescription for Special Populations-Fa

This course will prepare exercise science students to do exercise testing and prescriptions for individuals who are either acutely or chronically distinct from the "apparently not at risk" adult population. These include individuals who are children, elderly, or pregnant, as well as those who have acute or chronic illness or disease conditions that might affect the testing protocol or details of the exercise prescription. *Prerequisites: EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription.* (Fee: \$75)

EXSC-4990 Internship in Exercise Science–Fa, Sp 9–12 hours

This is an actual work experience in an exercise science setting for a minimum of 300 work hours for 9 credit hours and up to 400 work hours for 12 credit hours with a minimum of 30 work hours per week. Capstone course for exercise science major. *Prerequisite: Senior status and departmental approval is required.*

Multi-Age Health Education (MAHE)

MAHE-3030 Nutrition-Fa, Sp

3 hours

A study of the science of nutrition, together with the study of eating habit formation and modification for optimal wellness, presented from a Christian perspective.

MAHE-3070 Current Issues in Health-Fa

1 hour

Designed to explore, from a Christian perspective, healthrelated issues that challenge our society. This course recognizes the reality that there are "no easy answers" as ethics, technology, and economics merge to generate new dilemmas of increasing complexity every day.

MAHE-3130 School Health Program—Sp

3 hours

Analysis of the scope of the school health program, including health services, healthful school living, and health instruction.

MAHE-3150 Health Concepts for the Educator-Sp 3 hours

This course is intended to prepare students to understand the role of the health educator in the comprehensive school health education program. Nutrition, drug education, sexuality education, mental and emotional health unit content areas will be addressed from a biblical perspective.

MAHE-4610 Teaching Health-Fa

3 hours

The teacher's role in comprehensive school health education including an introduction to the health status of youth, at-risk students, objectives from Healthy People 2020, components of comprehensive school health education, the role of the teacher in school health services, and special health concerns of today's children and youth. As well, curriculum review, behavioral objectives, life skills, scope and sequence of learning, teaching strategies, responsible decision-making, resistance skills, health behavior contracts, health resources, student-learner evaluation, and assessment concepts and procedures will be presented. *Prerequisite: admission to the Teacher Education Program.* (Odd years)

MAHE-4850 1–3 hours

Independent Study in Health Education-Fa, Sp

Independent study in the area of health education by students pursuing multi-age health education teaching licensure or a health promotion minor. *Departmental approval is required*.

Multi-Age Physical Education (MAPE)

MAPE-1000 Foundations of Physical Education—Fa 1 hour

Orientation to the history, philosophy, and scope of modern exercise and sport science from a theistic perspective.

MAPE-1500 Teaching Sport Concepts and Skills-Fa 1 hour

This course is an introduction to the tactical games approach in teaching physical education. Preparing students for learning games and important principles of game teaching will be addressed. The course will include the concept of tactical transfer and the process of teaching within a game. The course will promote an interest in the game-learning process, an understanding of playing a game, and the ability to play a game. The course is presented from the biblical perspective of the teaching profession as it relates to physical education.

MAPE-2000 Recreational Games-Fa

Theory and practice in frisbee games (disc golf, ultimate), flag football, softball, and spikeball with attention given to various teaching methods, skills, and rules. *Prerequisite: MAPE-1500 Teaching Sport Concepts.* (Fee: \$25)

MAPE-2300 Net Games-Fa 2 hours

Theory and practice in volleyball, tennis, badminton, and pickleball with attention given to various teaching methods, skills, and rules. *Prerequisite:MAPE-1500 Teaching Sport Concepts.* (Fee: \$25).

MAPE-2600 Invasion Games-Sp 2 hours

Theory and practice in basketball, soccer, team handball, and speedball with attention given to various teaching methods, skills, and rules. *Prerequisite: MAPE-1500 Teaching Sport Concepts and Skills.* (Fee: \$25).

MAPE-2900 Lifetime Physical Fitness–Sp 2 hours

Fundamentals in improving cardiorespiratory endurance, muscular strength and endurance, flexibility, balance, and circuit training with attention given to various teaching methods, exercises and drills. (Fee: \$25)

MAPE-3600 5 hours

Physical Education in the Elementary School-Sp

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design, teaching techniques, assessment concepts and procedures, as well as modifying activities for the purpose of inclusion for the physically challenged. NASPE standards aligned with assessment and the analysis of student learning are a vital part of this course.

MAPE-4500 2 hours

Curriculum Development in Physical Education-Fa

Overview of the curriculum process in physical education, specifically giving attention to the theoretical base, process of curriculum design, and curriculum development for elementary through high school educational programs. Prerequisite: MAPE-3600 Physical Education in the Elementary School; corequisite: MAPE-4950 Methods of Secondary Physical Education

MAPE-4850 1–3 hours

Independent Study in Physical Education-Fa, Sp

Independent study by major students of advanced standing toward the understanding and appreciation of problems in physical education. This course gives students an opportunity to develop skills in the use of literature and in the appropriate techniques of problem solving. *Prerequisite: Departmental approval is required.*MAPE-4950

3 hours

Methods of Teaching Secondary Physical Education-Fa

This course provides the study of methods of instruction and practice and the study of planning and implementing units of instruction, as well as evaluating the effectiveness of various teaching strategies for teaching physical education at the secondary level. Also included is the study of understanding and developing assessment techniques in physical education and developing strategies for working with handicapped students. *Prerequisite: admission to the Teacher Education Program.*

MAPE-4960 Field Experience-Fa

2 hours

4 hours

A field experience within the MAHPE and MAPE majors in conjunction with MAPE-4950 Methods of Teaching Secondary Physical Education and MAPE-4970 Field Experience in Physical Education-Special Populations. This course requires a current Ohio FBI Background Clearance Report to be on file in the School of Education for the duration of the field experience. *Prerequisite:* admission to the Teacher Education Program. Credit/no credit. (Fee: \$100)

MAPE-4970 2 hours

Field Experience in Physical Education–Special Populations–Fa

An adapted physical education teaching field experience taken in conjunction with MAPE-4950 and MAPE 4960 that seeks to provide the opportunity for application of adapted physical education content and theory studied in MAPE-4950 Methods of Teaching Physical Education. This course requires a current Ohio FBI Background Clearance Report to be on file in the School of Eduation for the duration of the field experience. *Prerequisites:* admission to the Teacher Education Program; MAPE-4950 Methods of Teaching Physical Education; MAPE-4960 Field Experience. (Fee: \$35)

Physical Education Activity Courses (PEAX)

PEA-1240 through PEA_-2100 Courses 1–2 hours each

Each course is designed to develop knowledge and skills in the respective activity area. Course requirements include examinations covering the activity subject, skills tests, class participation, and aerobics requirements. Grading options include letter grades or credit/no credit. If taken for letter grades, majors may use these courses to satisfy specific curricular requirements.

PEAE-1400 Weight Training: Coed-Fa, Sp	1 hour
PEAI-1540 Golf: Coed (Fee: \$15)-Fa	1 hour
PEAI-1600 Racquetball: Coed (Fee: \$15)-Fa, Sp	1 hour
PEAI-1770 Tennis: Coed-Fa, Sp	1 hour
PEAL-1420 Backpacking: Coed (Fee: \$30)-Fa, Sp	1 hour
PEAL-1610 Rock Climbing: Coed (Fee: \$25)-Fa, Sp	1 hour
PEAL-1620	1 hour
Intermediate Rock Climbing: Coed (Fee: \$125)-Sp	

intermediate Rock Climbing:Coed (Fee: \$125)-5p

Prerequisite: PEAL-1610 Rock Climbing: Coed

Trerequisite. I EAE TOTO HOUR Offinbring. Occu	
PEAR-2100 Rhythmics: Coed-Fa	1 hour
PEAT-1020 Basketball: Coed-Sp	1 hour
PEAT-1050 Soccer: Coed-Fa, Sp	1 hour
PEAT-1820 Volleyball: Coed-Fa, Sp	1 hour

Physical Education Fitness (PEF)

PEF-1990

Physical Activity and Healthy Living-Fa, Sp, Su

Study of the role of physical activity in the Christian life from a scriptural, physiological, and psycho-sociological perspective. Emphasis is placed upon developing and continuing active, healthy, Christian life practices. Letter-graded course. (Fee: \$5)

Department of Art, Design, and Theatre Course Descriptions

Art (ART)

ART-1100 Introduction to Art-Fa

3 hours

2 hours

Introduction to visual vocabulary and the understanding of visual communication: form, line, space, color, texture, and movement. Development of visual awareness and analytical thinking in response to works of art, use of media, and techniques and the application of design principles.

ART-1110 Drawing Foundations-Fa, Sp

3 hours

3 hours

Investigation of the visual language used in drawing. Students work with concepts of point, line, and plane definition to develop an awareness of the elements used to indicate form in a variety of media. (Fee: \$100)

ART-1230 Two-Dimensional Design—Fa, Sp 3 hours

An exploration of the visual elements and concepts of design utilizing a variety of media. *Prerequisite: ART-1100 Introduction to Art; ART-1110 Drawing Foundations (can be taken concurrently).* (Fee: \$75)

ART-2110 Intermediate Drawing-Sp 3 hours

Further exploration of form, space, and mark making through a variety of drawing media. Particular attention will be given to the figure, as well as observing and rendering perspective. *Prerequisite: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.* (Fee: \$100)

ART-2130 Painting Foundations–Fa **3 hours**

An introduction to oil painting, emphasizing the perception and use of light and color in accurately representing form and space. *Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design.* (Fee: \$150)

ART-2140 Ceramics Foundations–Fa, Sp 3 hours

This course will provide students with an introduction to clay from construction to finished fired pieces. Students will build forms using basic hand-building techniques and the potter's wheel. Surface decoration will be emphasized using color, texture, and glazes. (Fee: \$175)

ART-2160 Sculpture Foundations-Sp 3 hours

An introduction to traditional and nontraditional processes of sculpture while accumulating in-depth techniques and skills in a variety of sculpture materials and practices. This class will emphasize creative effort, development of individual expression, and the utilization of technical processes. *Prerequisites: ART-1230 Two-Dimensional Design; ART-2230 Three-Dimensional Design.* (Fee: \$300)

ART-2170 Printmaking Foundations-Fa

An introduction to intaglio and relief printmaking processes.

ART-2230 Three-Dimensional Design–Fa, Sp 3 hours

Application of principles of design and visual organization with emphasis on volume, mass, and rendering forms in space. Prerequisite: ART-1100 Introduction to Art, ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design. (Fee: \$175)

ART-2250 Creative Photography—Fa, Sp 3 hours

Students will learn and apply technical knowledge and compositional techniques necessary to produce creative, quality digital photographs. Additionally, students will gain historical and contemporary knowledge, skills, and appreciation of photography as a medium for artistic expression visual communication. Students must provide a digital point-n-shoot camera or DSLR camera. A tripod is recommended. (Fee: \$50)

ART-3110 Advanced Drawing-Sp 3 hours

This course allows the studio art major an opportunity to explore a particular studio discipline or may be a continuation of work completed in previous studio courses, allowing the student a concentration in that particular discipline. *Prerequisites: ART-1110 Drawing Foundtions; ART-1230 Two-Dimensional Design; ART-2110 Intermediate Drawing.* Repeatable up to two times. (Fee: \$100)

ART-3130 Intermediate Painting—Sp 3 hours

Study of the principles of composition, value, pattern, tone, mood, and color theories. Emphasis is placed on the creative process from concept to finished art. Imaginative and individual responses of the student increase throughout the course. *Prerequisite: ART-2130 Painting Foundations.* (Fee: \$150)

ART-3140 Intermediate Ceramics-Fa, Sp

3 hours

3 hours

3 hours

In this course students will expand and refine existing hand-building and/or wheel-throwing techniques. In addition to developing a deeper and broader set of technical skills, students will develop their ideas and learn to articulate them through clay. Students will demonstrate comfort and proficiency in the operation of the ceramics studio equipment and in the physical processes of building, glazing and firing clay. *Prerequisites: ART-2140 Ceramics Foundations.* (Fee: \$175).

ART-3160 Intermediate Sculpture–Fa

This course will further expand on the materials and techniques learned in Sculpture Foundations. Students will define techniques and understanding of materials they have previously used with emphasis on developing a personal artistic voice. Student and professor may define new materials and techniques that will be introduced through class or individual projects based on student ability and interest. *Prerequisite: ART-2160 Sculpture Foundations*. (Fee: \$300)

ART-3170 Intermediate Printmaking-Fa

Building upon the relief and intaglio processes, the student will add the processes of serigraphy (screen printing) and lithography. Subsequently, the student will concentrate on one of the four printing processes. The upper-level printmaking student is encouraged to combine printing techniques and create images of greater size with an emphasis on artistic statement. The proper matting and presentation of the print is included in this course. Instruction will consist of demonstrations, audio-visual lectures, and group and individual critiques. *Prerequisites: ART-2110 Intermediate Drawing; ART-2170 Printmaking Foundations.* (Fee: \$250)

ART-3230 Watercolor-Sp 3 hours

A location painting watercolor course for students who have had drawing instruction and who have a basic understanding of composition and color theory. *Prerequisites: ART-1110 Drawing Foundations; ART-1230 Two-Dimensional Design; or by portfolio.* (Fee: \$180)

ART-3250 Studio Photography–Fa 3 hours

Students will learn to control and manipulate various aspects and qualities of light in a photographic studio environment to create and implement lighting solutions for various commercial, fine art, and creative digital photography projects. Additional expenses for materials and services beyond the course fee are required for successful completion of this course — students should plan and budget accordingly. *Prerequisites: ART-2250 Creative Photography or permission of instructor.* (Fee: \$200)

ART-3310 Art History I–Fa 3 hours

Survey of the development of western art and architecture from the ancient world through the early renaissance.

ART-3320 Art History II-Sp 3 hours

Survey of the development of western painting, architecture, sculpture, and the graphic arts from the early renaissance through impressionism at the end of the 19th century. *Prerequisite: ART-3310 Art History I.*

ART-4130 Advanced Painting–Fa, Sp **3 hours**

Building upon Painting Foundations and Intermediate Painting, Advanced Painting allows for further exploration and focus as students develop a mature, exhibitable body of work. Student and professor will define course projects based on abilities and interest of the student. *Prerequisites: ART-2130 Painting Foundations; ART-3130 Intermediate Painting.* Repeatable up to two times.

ART-4140 Advanced Ceramics-Sp

3 hours

In this course, students will develop expertise in ceramic methods of hand-building and/or wheel-throwing, with an emphasis on perfecting the skillsets already developed. Additionally, students will establish personal artistic statements manifested through a conceptually unified body of work expressed in clay. ART-2140 Ceramics Foundations; ART-3140 Intermediate Ceramics. Repeatable up to two times. (Fee:\$175)

ART-4160 Advanced Sculpture–Fa, Sp

Building on Sculpture Foundations and Intermediate Sculpture, Advanced Sculpture allows for further exploration and focus as students develop a mature, quality body of work. The professor will define course projects based on abilities and interest of the student. *Prerequisites: ART-3160 Intermediate Sculpture*. (Fee: \$300) Repeatable up to two times.

ART-4170 Advanced Printmaking-Fa, Sp

3 hours

3 hours

This printmaking course is for the advanced student who is completing a concentration in printmaking. By allowing the student to specialize in a particular technical process, this course focuses on presenting a unified body of prints reflecting a personal style and deeper thinking in preparation for the student's senior exhibition. This course encourages experimentation with the synthesis of analog digital technologies while maintaining traditional value for achieving the consistent multiple image.

Prerequisites: ART-2170 Printmaking Foundations; ART-3170 Intermediate Printmaking. Repeatable up to two times (Fee: \$300)

ART-4300 Art Exhibition—Sp

3 hours

Designed to provide the student a hands-on experience in mounting an art exhibition. Topics include archival matting and framing, lighting, and hanging techniques, as well as publicity and signage. Studio work is a requirement to balance a portfolio of work for a senior exhibition. Capstone course. *Prerequisite: senior studio art major status*. (Fee: \$50)

ART-4400 20th Century Art-Sp

3 hours

Investigation of the development of 20th century art history from Post-Impressionism to the present. Particular attention to the underlying worldviews and changes in media. Classroom lectures are supplemented with student research, critique, and museum studies. (odd years)

ART-4440 Installation Art-Fa 3 hou

Survey of Installation Art, culminating in student directed projects, executed on and off campus. *Prerequisite: ART-4400 20th Century Art recommended.* (Fee: \$125) (even years)

ART-4980 Special Topics in Art-Fa, Sp, Su 1–3 hours

This is a workshop for students who are interested in a collaborative studio learning experience in applied art. Applied areas offered include painting (watercolor, oil, acrylic), pottery, or photography. Rotation of course content will be determined by faculty schedules. In instances where Cedarville University faculty are acting as instructors in professional workshops held off-campus, Cedarville University students who participate and pay Cedarville tuition can earn elective credit. Actual contact hours would determine amount of credit granted. *Prerequisite:* permission of the instructor. (Fee: \$75).

ART-4990 Independent Study in Art 1–3 hours

Independent and intensive study in a particular area of art for individual students who demonstrate special interests and ability. (Fee: \$60 per credit hour)

Industrial and Innovative Design (IDES)

IDES-2000 History and Influences of Design-Sp 3 hours

Survey of design from the 17th century to the present. The course highlights significant stages in the development and pivotal influences of design including technological advances, individual works, key movements, schools of thought, and approaches relative to time(s) and culture(s). Crosslisted with VCD.

IDES-3110 Drawing in Dynamic Perspective I–Fa

This hands-on course includes lecture, demonstration, progressive hand-generated drawing exercises, and project work, all designed to reveal the hidden keys to training our creativity to perceive space and the geometry of space with greater authority. The principles of one-point and two-point perspective and related visual systems will be presented in a bold problem-solving format ranging in scale from the simple to the complex in order

to accurately express our conceptual capabilities. *Prerequisites:* ART-2230 Three-Dimensional Design; VCD-1050 Applied Design; Tech Tools I.

IDES-3120 Drawing in Dynamic Perspective II-Fa 3 hours

Building on the visual authority and refined hand-drawing skills developed in Drawing in Dynamic Perspective I, this course explores in greater depth the application of advanced perspective principles in problem-solving scenarios for a diverse range of "core content" industrial design exercises. *Prerequisite: IDES-3110 Drawing in Dynamic Perspective I.*

IDES-3210 Language of Line-Fa

Rapid visualization (Power Drawing) skills will be presented in lecture, demonstration, progressive hand-generated drawing exercises, and project work in an in-depth study of the "language of line" and how it generates visual confidence. The course analyzes the three keys to drawing authority: form, position and texture. Further, the course will place these elements into a process that will produce and solve design problems ranging from understanding basic volumes to successfully illustrating complex volumes through study of applied science, ergonomics, and ethics. *Prerequisite: IDES-3120 Drawing in Dynamic Perspective II.*

IDES-3220 Innovative Media Systems–Fa

4 hours

4 hours

Through the use of the latest digital and traditional design tools, students will develop and demonstrate their previously learned skills and knowledge in industrial design, creative problem solving, and visual communication techniques by way of market-relevant studio exercises, hands-on design labs, and experiential-learning projects. *Prerequisite: IDES-3120 Drawing in Dynamic Perspective II.*

IDES-3310 3 hours

Fundamentals of Surface Development I–Sp
This study will introduce the principles of creating innovative shapes, forms, and volumes, and explore how they in turn influence manufacturing systems. Students will engage in using a variety of materials such as paper, structural foam, plastics, glass, wood, etc., to successfully convey a three-dimensional model interpretation. Prerequisite: IDES-3220 Innovative Media Systems.

Fundamentals of Surface Development II-Sp

The principles of this course will expand the model-building skill base by working with an advanced palette of materials to successfully illustrate a set of three-dimensional models.

Prerequisite: IDES-3310 Fundamentals of Surface Development I.

IDES-3410 Three-Dimensional Composition—Sp 4 hours

This course will lay the foundations for "finishing techniques" for modeling and act as an overview for the various software, hardware, hand-crafted, and artisan techniques required to gain a deeper appreciation of the visual impact potential of a finished model and/or prototype, and various presentation practices. Prerequisite: IDES-3320 Fundamentals of Surface Development II.

IDES-3420 Three-Dimensional Presentation—Sp 4 hours

This course is the natural extension of three-dimensional composition. The course focuses on the critical importance of creating, defining, and implementing a series of two-dimensional sketch rendering ideas and converting those ideas into successful three-dimensional model series. *Prerequisite: IDES-3410 Three-Dimensional Composition.*

IDES-4010 Consumer Product Design-Fa

This course is designed to focus on the development of the designer's personal vision and preparation for careers in the area of product design. Completed solutions will be created by the candidates through concept sketches, renderings, layout studies, 3-D models, and a final, scale foam study. *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

4 hours

IDES-4020 Interior Space Design–Fa 3 hours

This course is designed to focus on the development of the designer's personal vision and preparation for careers in the area of interior design. Completed solutions will be created by the candidates through the understanding of human scale, consumer product trends, human interaction, interface, ergonomics, traffic patterns, interior design materials, etc. *Prerequisite: IDES-3420 Three-Dimensional Presentation*.

IDES-4030 Transportation Design—Fa 4 hours

This course is designed to focus on the development of the designer's personal and client visions and for preparation with the career choice of transportation design. Completed solutions will be created through concept sketches exploring the world of mobility (aircraft, watercraft, automobile, etc.) *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

IDES-4040 Architectural/Exterior Space Design-Fa 4 hours

Architectural exterior space design concentrates on the discipline of developing the designer's expertise in utilizing structural materials to create the next generation of architectural design systems. Projects will include glass, metals, stone, and a diverse vocabulary of other materials that integrate the creative process to build confidence for this vocational choice. *Prerequisite: IDES-3420 Three-Dimensional Presentation.*

IDES-4200 4 hours

Professional and Ethical Practices in Design-Sp

Based on the previous semester's exposure to various disciplines within the industrial and innovative design degree, the candidate will focus on an area of specialization and, with staff assistance, develop a thesis statement. Further, candidates will receive coaching from professionals and staff in the areas of design business ethics. *Prerequisite: IDES-4040 Architectural/Exterior Space Design*.

IDES-4300 3 hours Design Project: Selection Statement, Research,

and Scope-Sp

With staff and professional support, the candidates will embark on a research journey to discover real-world, market-applicable design solution research within a selected area of specialization. Prerequisite: IDES-4200 Professional and Ethical Practices in Design.

IDES-4400 Design Project and Presentation—Sp 10 hours

In this capstone course, candidates will be assisted in completing their portfolio presentation skills, business case development, professional practices, and receive a professional written and oral critique of their work. *Prerequisite: IDES-4300 Design Project: Selection Statement, Research, and Scope.*

Theatre (THTR)

THTR-1230 Voice for the Performer-Fa

Practical approach to developing a healthy speaking voice for professional use. Voice physiology provides foundation for effective breathing, quality, projection, and articulation for performance. Stage dialects are explored briefly as application of the International Phonetic Alphabet (IPA). Appropriate for actors, singers, public speakers, and voice over artists. Crosslisted with COM-1230. (odd years)

THTR-1300 Introduction to Technical Theatre–Fa 3 hours

This course is designed to provide the student with an introductory overview of various aspects of technical theatre, including set construction, costume construction, lighting and sound operation, and production run crews. The student will be provided with opportunities to develop and explore their technical skills with many of the basic tools, principles, and practices of technical theatre. (Fee: \$50)

THTR-1410 Introduction to Theatre—Fa

3 hours

1 hour

Study of the history and development of theatre. Dramatic literature is considered a reflection of man and culture during various periods, dealing with philosophy, religion, and sociopolitical thought. A brief look at acting skills is also offered.

THTR-1430 Stage Movement-Sp 3 hours

A practicum in theatrical stage movement for performance with intensive studio sessions, starting with a foundation of anatomically sound knowledge of Alexander technique. Physical expressiveness is developed through exploration of industry-standard approaches such as Elements, Laban effort/shape movement, and Yakim's social selves. Specific applications develop technique for age demonstration and safe stage combat. Appropriate for students in all performing arts. (odd years)

THTR-1440 Stagecraft I–Fa, Sp 1 hour

This course is designed to acquaint the student with selected elements of play production on a practical level. Students are assigned a project in an area of stagecraft such as properties, lighting, costuming, makeup, or set construction/decoration in relation to the mounting of a theatre production.

THTR-1450 Stagecraft II-Fa, Sp

Designed to give the student a production staff supervisory experience. Students are assigned an area of stagecraft in relation to the mounting of a theatrical production. Skills learned in Stagecraft I are further developed, and leadership responsibilities required. *Prerequisite: THTR-1440 Stagecraft I.*

THTR-1460 Theatre Participation—Fa, Sp 1 hour

Students who participate in a theatre-directed play may receive one hour of credit. Participation must occur over a minimum of four weeks of the rehearsal process. Credit may be applied only to the semester in which the participation occurs or the semester immediately following. Repeatable up to four hours. Credit/no credit. *Prerequisite: permission of instructor.*

THTR-1500 Introduction to Production Design-Sp 3 hours

This course is designed to provide the student an overview of theatrical design and the process in which a designer follows in analysis, research, and design for costume, lighting, scenic, and sound design. *Prerequisite: THTR-1300 Introduction to Technical Theatre* (Fee:\$50)

THTR-2130 Dramatic Literature—Sp 3 hours

Study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both. Crosslisted with LIT. (even years)

THTR-2350 Directing I-Fa

3 hours

Practical study of play directing methods, theories, and techniques applied through class projects. Students will direct scenes with complete artistic oversight, fulfilling every role and function of a director. This course is also helpful to education majors who will have to assist in educational theatre productions.

3 hours

THTR-2360 Introduction to Costuming-Fa

3 hours

This course is designed to provide the student an overview of the numerous aspects of costuming for theatre, including basic knowledge of the role of the costume designer and the process he or she undertakes in creating designs, the practical skills of constructing and sewing a costume, and the communication and critical thinking skills involved in theatre collaboration for the costume designer. *Prerequisites: THTR-1300 Introduction to Technical Theatre; THTR-1500 Introduction to Production Design.* (Fee: \$60) (even years)

THTR-2410 Advanced Performance Techniques-Sp 3 hours

An advanced course in solo theatre performance where students learn performance techniques in monologues and monodrama. Special emphasis is placed on the solo presentation of multiple characters in both narrative and dramatic literature. *Prerequisite: THTR-2430 Acting I or permission of instructor.*

THTR-2430 Acting I–Fa, Sp 3 hours

Study in the principle theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored.

THTR-2440 Stagecraft III-Fa

1 hour

This course is designed to give the student an opportunity to work on the execution of an assigned design for the mainstage. The student may execute a set piece, costume, or lighting design. *Prerequisite: THTR-1450 Stagecraft II.*

THTR-2470 Makeup Design-Fa

2 hours

Designed to provide the student with both theoretical knowledge and practical skills for makeup design and execution for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$150) (odd years)

THTR-2510 The Arts and Social Change—Sp 3 hou

The nature of this course is to provide background in theory and practical work in arts related areas that focus on efforts to work effectively on behalf of those who are politically, economically, behaviorally, or spiritually oppressed. (odd years)

THTR-3360 Costume Construction—Sp 3 hours

This course is designed to provide the student with knowledge and experience in the area of costume construction. The student will develop skills in areas such as garment contruction, patterning, and costume crafts and learn to meet industry standards in regards to construction methods through work on the mainstage productions and personal projects. *Prerequisites: THTR-2360 Introduction to Costuming.* (Fee:\$60) (even years)

THTR-3420 Theatre History I–Fa 3 hours

An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the pre-Greek era to the present. Focus will be on prevailing philosophical orientation, major dramatists, theatre architecture and staging practices, styles of performance, costume design, innovations, and development. (even years)

THTR-3430 Theatre History II—Sp 3 hours

Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era. (even years)

THTR-3440 Stage Costume History-Sp 3 hours

A general survey of western costuming for the stage from pre-Grecian to late twentieth century. This course provides an overview of the evolution of fashion as well as the social and cultural history affecting fashion change. (even years) (Fee: \$40)

THTR-3450 Stagecraft IV-Sp

1 hour

This course is designed to give the theatre major with a design concentration an opportunity to work in the chosen area of their senior theatre project. The student will execute a design for a mainstage production and may assist in the design process. *Prerequisite: THTR-2440 Stagecraft III.*

THTR-3460 Acting II-Sp

3 hours

An advanced course that builds upon and expands the actor's repertoire. The course may cover theatre forms such as Western foundational styles, Early modern to Post-Modern as well as non-Western traditions and contemporary performance. (even years) *Prerequisite: THTR-2430 Acting I*

THTR-3465 Performing Shakespeare-Sp

3 hours

This course will prepare students for performance of classical works with an emphasis on communicating Shakespearean text with clarity, understanding, and emotional honesty. Students' skill will be challenged through performance of comic scenes, tragic scenes, and monologues after thorough investigation of Shakespeare's rhetorical strategies and poetic form. (odd years)

THTR-3470 Dramaturgy-Sp 3 hours

This course provides background in specialized theatre research for students interested in teaching theatre history, drama, dramatic literature, and directing productions at the secondary or college level. (odd years)

THTR-3490 Stage Lighting Design-Sp

3 hours

The study of stage lighting theory and practice. Students will complete exercises in lighting design. Material covered includes basic electricity, equipment, and instruments. Practicum and stage work required. (Fee: \$35) (odd years)

THTR-3510 Directing II-Sp

3 hours

An advanced course exploring the direction of period plays and stylistic genres other than realism. Student projects might include one-act or full-length plays. Students will become familiar with influential contemporary directors and directing theories. (odd years) *Prerequisite: THTR-2350 Directing I.*

THTR-3520 Scenic Painting-Sp

3 hours

This course is designed to introduce students to scenic painting techniques. The student will hone painting skills through class projects. (Fee: \$75) (even years)

THTR-3530 2 hours

Techniques of American Musical Theatre—Fa
Structured as a studio dance class, basic steps and movements are taught for styles ranging from ballet, jazz, ballroom, and lyrical hip hop. Students gain skills from guest choreographers for

performing in musical theatre. Appropriate for theatre and music

students. (odd years) (Fee: \$75)

THTR-3610 Theatre for Young People—Fa

For integrated language arts majors and theatre students desiring a theatre elective. Provides background and experience in theatre games, improvisation techniques, and educational theatre productions for pre-K through grade 12. Includes role-playing, play therapy, and dramatherapy theory. Prerequisite: admission to Teacher Education Program or theatre major or permission of instructor. (Fee: \$60) (odd years)

THTR-3650 Playwriting-Fa

3 hours

2 hours

This course is designed as a means of providing an opportunity for the student to concentrate on the writing of plays as a part of preparation for graduate work, ministry and worship, and the creation of new works for theatre. The emphasis will be on creative storytelling in dramatic form, including experimental work in varying formats. (even years)

THTR-3850 Seminar in Arts Administration and Arts Law-Sp

A seminar course providing background in arts administration and arts law, with significant research and presentation responsibilities for students. An overview of issues involved in the operation of arts organizations. (even years) (Fee: \$75)

THTR-4360 Costume Design-Fa

3 hours

This course is designed to provide the student with both theoretical knowledge and practical skills for designing costumes for a theatrical production. The student will develop this craft through individual projects that cover topics such as design and painting techniques, budgeting, presentation, and collaboration Prerequisite: THTR-2360 Introduction to Costuming. (Fee: \$50)

THTR-4400 Professional Preparation Seminar-Sp 2 hours

Prepares the senior theatre arts student for entry into the professional arts community and/or graduate study. Topics include audition/portfolio preparation and presentation, resumé writing, interviewing techniques, graduate study/assistantship options, professional union affiliation, etc. (odd years) (Fee: \$125)

THTR-4490 Advanced Stage Lighting Design-Fa 3 hours

This course will build on the foundation and design principles learned in Stage Lighting Design with an emphasis on the development of refined, practical, professional final applications. Using Cast Software's WYSIWYG design software, students will learn to create scenic elements and represent lighting designs in a CAD-based previsualization environment. Additionally, students will learn about and integrate intelligent and LED lighting instruments into final designs. Finally, students will learn advanced programming techniques to create a short lighting show set to a musical selection. Prerequisite: THTR-3490 Stage Lighting Design (Fee:\$75) (even years)

THTR-4500 Scenic Design-Fa

3 hours

A theatre course that emphasizes the analysis and interpretation of scripts, use of research material, and techniques of presentation. Includes an introduction to the practices of drafting and modeling. (Fee: \$55) (odd years)

THTR-4630 The Christian in Theatre-Sp 2 hours

Students discuss issues they will face in the culture-shaping world of stage and screen. A biblical view of the arts sets the foundation for examining work ethic and professional practice. Service-learning projects integrate faith and art in the local community.

THTR-4640 Special Topics-Fa, Sp

1-3 hours

Topics of specialized theatrical interest are examined on an asneeded basis. Repeatable up to six credit hours.

THTR-4750 Independent Study: Theatre-Fa, Sp 1-2 hours

Independent study in a selected field for students with special interests and demonstrated ability. Repeatable up to eight credit

THTR-4810 Internship: Theatre-Fa, Sp, Su 0-6 hours

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability. Repeatable up to 12 hours.

THTR-4840 Senior Theatre Project-Fa, Sp 3 hours

The Senior Theatre Project (STP) has two goals: to culminate the student's work at Cedarville with a project presenting the student's highest caliber of work and to prepare the student to achieve personal and professional goals. The theatre major is given a variety of choices through which to fulfill the STP requirement: solo performance, directed production, theatre design, or dramaturgical study. Before determining the nature of the STP, the student must determine personal and professional goals. The theatre major begins shaping the STP immediately upon enrollment in the major. All theatre majors work with a theatre advisor. Capstone course.

Visual Communication Design (VCD)

VCD-1050 Applied Design: Tech Tools I-Fa, Sp 3 hours

Students learn fundamental, industry-standard and processes and design technologies-Adobe Illustrator, InDesign, and Photoshop-as they apply principles of visual communication design to both print and screen contexts. (Fee:\$35)

VCD-1200 Design Thinking-Sp

In this introductory course, students will explore why we design. Through a variety of projects, contextual research opportunities, reading, instruction, and collaboration, students will learn the core principles of the design discipline, design's role within-and its potential impact on-business and our community, and the ways designers develop innovative insights and compelling ideas that resonate deeply and authentically with ordinary people. (Fee: \$50) VCD-2000 History and Influences of Design-Sp

Survey of design from the 17th century to the present. The course highlights significant stages in the development and pivotal influences of design including technological advances, individual works, key movements, schools of thought, and approaches relative to time(s) and culture(s). Crosslisted with IDES.

VCD-2050 Applied Design: Tech Tools II-Sp

3 hours

Building on a foundation of technical tools, students will learn advanced technical skills, complex processes, and creative exploration as they apply principles of visual communication design to relevant, practical, and complex design problems and contexts. Prerequisite: VCD-1050 Applied Design: Tech Tools I (Fee: \$35)

VCD-2200 Typography-Fa

3 hours

An introduction to the study of typography and its role in the structuring of visual language and its relationship to the discipline of graphic design. The course will examine the history of letter forms, their sources, and their influences and will provide opportunities for learning principles and guidelines for the effective use of type in visual communication for a variety of media and messages. Students will learn to structure intelligent, creative type solutions through classroom discussion, reading, research, and studio assignments, including editorial, promotional, and informational applications of typography. Prerequisites: ART-1230 Two-Dimensional Design; VCD-1050 applied Design: Tech Tools 1; or permission of instructor. (Fee: \$50)

VCD-2400 Graphic Design I-Sp

3 hours

An introduction to the study of graphic design with emphasis on using the principles of design to communicate information and ideas in visual form. The course will provide opportunities to learn principles of visual communication and steps in the design process necessary to produce effective design solutions. Learning will be achieved through classroom discussion, reading, research, and studio assignments that center on producing concepts for both printed and electronic forms of information design. Prerequisites: VCD-2200 Typography; or permission of instructor. (Fee: \$50)

VCD-2600 Web Design I-Fa, Sp

Students learn foundational concepts and skills for building usable and beautiful user-centered websites by exploring the differences between graphic design and interactive design, gaining experience with designing webpage layouts, and practicing the skills necessary for constructing and publishing web pages with HTML and CSS. (Fee: \$10) 1 hour

VCD-3200 Portfolio I-Sp

This course will focus on developing professional presentation materials and communication skills required to present project work to design professionals and prospective employers. Previous project work will be refined along with additional project work necessary to emphasize interest in a particular area of specialization. Students will be required to develop a resumé and portfolio along with written communication for documenting their education, experience, and technical skills. Students are recommended to have completed or be concurrently taking VCD-2400 Graphic Design I to have adequate material for their portfolio.(Fee: \$145)

VCD-3300 Production Design I-Fa

3 hours

An introduction to the technical processes required for the production of graphic design solutions in a variety of media. The course will provide opportunities to gain understanding of guidelines and requirements necessary for producing design documents in both conventional and electronic media. Prerequisites: VCD-1050 Applied Design: Tech Tools 1; Students are recommended to have completed VCD-2400 Graphic Design I. GD majors and minors only. (Fee: \$50)

VCD-3400 Graphic Design II-Fa

3 hours

An in-depth study of graphic design and its role in creating visual communication. Coursework will examine methods of conducting and interpreting research, the development of strategydriven concepts to formulate targeted design solutions, as well as the foundations of the branding process. The course will provide opportunities for developing conceptual and technical skills through class work and projects following specific communication models. Prerequisites: VCD-2400 Graphic Design I; VCD-3300 Production Design I (prerequisite or corequisite); or permission of the instructor. GD majors and minors only. (Fee: \$50)

VCD-3600 Web Design II-Sp

3 hours

Students will learn advanced concepts and techniques in web design including visual design, navigation, usability, grid layout, scripting, coding, and other skills necessary to produce professional, visually enhanced media for delivery via the web. Students will use industry standards, including software, to develop websites and digital media that integrate motion, sound, and interactivity to add value and enhance the user experience for web-based advertising, marketing, and other communication needs. Prerequisites: VCD-2600 Web Design I. (Fee: \$60)

VCD-3650 Scripting for Interactivity—Fa

3 hours

Students are introduced to the disciplines of interaction design and front-end development and learn how to use current technologies and best practices to apply principles of interaction to achieve simple, user-centered, interactive effects on real-world projects. Prerequisite: VCD-3600 Web Design II. (Fee: \$50)

VCD-3700 User Experience and Interface Design-Fa 3 hours

Students will study the principles of user experience and interface design, including processes, research methods, and concept testing. They apply principles through conceptualizing, testing and prototyping real-world projects for websites, web applications, mobile applications, gaming consoles, and other emerging technologies. Prerequisites: VCD-2400 Graphic Design I; or permission of the instructor. (Fee: \$35)

VCD-4200 Portfolio II-Fa

1 hour

3 hours

This course will focus on revising a portfolio package that demonstrates to prospective employers professional-level knowledge and abilities within a particular area of specialization. Additionally, students will develop professional written, verbal, and non verbal communication skills that will guide the transition from academia to the design industry. Prerequisites: VCD-3200 Portfolio I and senior status; or permission of instructor.

VCD-4300 Production Design II-Sp

An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. Prerequisites: VCD-2400 Graphic Design I; VCD-3300 Production Design I; or permission of the instructor. (Fee: \$50)

VCD-4400 Graphic Design III-Sp 3 hours

Students will complete a capstone project that combines skills from previous classes. Students will research, plan, conceptualize, prototype and implement a graphic design project - utilizing human-centered design research to develop a design strategy that informs targeted final solutions. Students will develop each phase of the project into a comprehensive project presentation. Prerequisites: VCD-3300 Production Design I; VCD-3400 Graphic Design II; or permission of the instructor. (Fee: \$50)

VCD-4600 Web Design III-Fa

Student survey current trends and developments in the fields of user experience, web design, and interactive design and apply new knowledge and skills to create an experimental interactive project. Prerequisite: VCD-3600 Web Design II. (Fee: \$50) 3 hours

VCD-4700 Interactive Design Capstone—Sp

Students complete a capstone project that combines skills from previous classes. They will research, plan, conceptualize, prototype, test, develop, and implement a fully functional realworld interactive project. Prerequisites: VCD-3650 Scripting for Interactivity; VCD-3700 User Experience and Interface Design; VCD-4600 Web Design III. (Fee: \$50).

VCD-4800 1-3 hours

Special Topics in Visual Communication-Fa, Sp

This course will examine a topic of specialized interest within the field of visual communication design. Rotation of course content will be determined by faculty schedules and student interest. Actual contact hours would determine the amount of credit granted. Prerequisites: topic dependent and by permission of the instructor. (Fee: \$50)

VCD-4900 0-6 hours

Visual Communication Design Internship-Fa, Sp, Su

The graphic design internship will give the student an opportunity to gain actual on-the-job experience with professionals in the graphic design industry. This opportunity will allow students to gain insight into the professional practices and approaches to solving communication challenges for a variety of business models and client types. This experience will become a valuable asset in competing for an entry-level position upon graduation. CR/NC course.

VCD-4990 Independent Study in Design-Fa, Sp, Su 1-3 hours

This course allows a student independent and intensive study in a particular area of specialized interest beyond regular course offerings. The student must apply with a proposal and schedule to be approved in advance by the faculty mentor. Repeatable up to 6 credit hours. Prerequisite: approval of proposal by faculty mentor.

School of Biblical and Theological Studies **Course Descriptions**

Bible and Theology — Applied Theology (BTAT)

BTAT-2350 Theological Foundations of Ministry-Fa

An examination of theological issues critical for the formation of a biblical philosophy of ministry, as well as a critical survey of historical developments in Christian educational ministries in light of those theological discussions.

BTAT-2400 Introduction to Evangelism-Fa, Sp 3 hours

An introductory study of the biblical concepts for evangelism:. The course will survey a brief overview of the biblical Gospel; explore historic and current methods in evangelism; introduce the cultural, personal, or theological issues that could inhibit evangelism; and encourage personal witnessing encounters.

BTAT-2420 History of Mission-Fa 3 hours

Survey of the history of the expansion of the church from apostolic times to World War II with attention to differing conceptions of the mission task and the strategies and lessons that may be learned for mission today. (odd years)

BTAT-3200 3 hours

Introduction to Missions: Theology and History-Fa, Sp An introduction to the biblical warrant for and theology of Christian missions. This course will also sketch the history of missions efforts from the early church to mid-20th century. Primarily the history will be told through the efforts of churches, representative missionaries, and missions boards and agencies. (dual-listed with BTAT-6200 Introduction to Missions: Theology and History) (Fee: \$50)

BTAT-3250 Church Planting-Sp

3 hours

This course will expose students to the various stages of church planting including vision casting, planning, implementation, and reproduction. Likewise, it will present multiple approaches to church planting and church structure, culminating in a student project wherein students will create and present strategic two-year church planting plans targeting a specific location. (odd years)

BTAT-3400 Biblical Care and Counseling-Fa, Sp

This course introduces the principles, techniques, approaches, and tools used in the ministry of care, discipleship, and counseling. Biblical, theological, and ethical concerns in the ministry of soul care are discussed, and an overview of common counseling concerns is presented. (dual-listed with BTAT-6110 Biblical Care and Counseling)

BTAT-3410 Discipleship-Fa, Sp

3 hours

Study of personal discipleship within a biblical framework. utilizing a variety of resources and practical experience. The model developed will be applicable in multiple contexts. (duallisted with BTAT-6410 Discipleship)

BTAT-3420 Introduction to Pastoral Ministry-Sp 2 hours

This course provides broad overview of pastoral duties including presiding over weddings, funerals, and church services. In addition, such issues as the pastoral call, candidating, ordination, leadership, and family issues are also addressed. (odd years)

BTAT-3430 Ministerial Counseling-Sp

3 hours

Building upon a biblical and theological foundation for biblical care, discipleship, and counseling, this course provides intermediate and advanced principles and practices of ministerial counseling. It provides an overview of the history, methods, and role of counseling within a modern ministry context. A biblical approach to common counseling problems involving both sin and suffering is addressed within Christian ministry (crisis, abuse, depression, addiction, etc.). It also discusses the role of counseling in encouraging and cultivating spiritual growth through discipleship relationships, including premarital counseling and providing biblical life wisdom. Prerequisite: BTAT-3400 Biblical and Counseling or permission of instructor; Corequisite: BTAT-3400 Biblical Care and Counseling. (dual-listed with BTAT-6130 Ministerial Counseling) (even years)

BTAT-3450 Contemporary World Missions-Sp

3 hours

Study of the development, methods, and problems of Christian missions since World War II.

BTAT-3470 Cross-Cultural Ministry-Sp 3 hours

Understanding culture, basic methods in researching culture, becoming competent in another culture, cross-culture communication, relevant to a mission ministry, and the practice of ministry contextualization. (Fee: \$195)

BTAT-3480 Women's Communication for Ministry-Fa 3 hours

A course designed to help women refine communication skills that will help them to articulate their beliefs effectively and further develop communication platforms in the areas of giving a testimony, leading a discussion, and expositing Scripture for various age groups. Prerequisite: BTGE-1725 The Bible and the Gospel. (dual-listed with BTAT-6480 Women's Communication for Ministry)

BTAT-3500 Text-Driven Preaching 1-Sp

3 hours

Introductory course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation to skilled delivery to a contemporary audience. Prerequisites: BTGE-1725 The Bible and the Gospel; BTGE- 2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor. (duallisted with BTAT-6500 Text-Driven Preaching 1)

BTAT-3510 Introduction to Urban Missiology-Fa

An introductory understanding of urban culture, basic methods in researching urban culture, becoming competent in living in an urban culture for the preparation of missions in an urban context. Attention will be given to ministry guided by biblical theology and acclimated to the sociological, anthropological, and multicultural factors in the urban environment in global cities.. (Fee: \$35)

BTAT-3560 Counseling and Mentoring Men-Fa, Sp 3 hours

In this course, the distinctive theological foundations and skills of biblical counseling will be examined and applied specifically to the ministry of mentoring and counseling men. Study will focus on the mandate and skills of leading men toward comprehensive maturity and counseling as it pertains to common life challenges for men in contemporary society. Crosslisted with BTCM. Prerequisite: BTAT-3400 Biblical Care and Counseling: or permission of the instructor.

BTAT-3730 Theology of Worship-Sp

3 hours

This course explores the theology, history, and practice of Christian worship, with particular attention to how worship practices both reflect and shape theological commitments. Various elements of Christian worship will be examined in light of diverse cultural contexts and theological perspectives with the goal of enabling the student to plan appropriately and to lead worship in a particular ministry setting. Prerequisites: BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.

BTAT-3840 Theology of Sexuality and Family-Sp 3 hours

A study of the key issues in biblical and systematic theology related to human sexuality, gender, marriage, and family. Emphasis will be given to central biblical texts for formation of doctrine, historical disputes, and contemporary challenges, such as homosexuality and transgenderism. Crosslisted as BTHT. Prerequisite/corequisite: BTGE-3755 Theology I.(odd years) 3 hours

BTAT-4300 Teaching Ministry of the Church-Fa

Course focuses on the practice of expressing biblical and theological content in written documents and/or teaching curriculum for various audiences and settings. Attention is given to the variety of delivery methods for expositional teaching available within a church's ministry. (Crosslisted with BTCM) (dual-listed with BTAT/BTCM-6300 Teaching Ministry of the Church)

BTAT-4510 Advanced Urban Ministry-Sp 3 hours Continuation of the earlier Urban Ministry course, including global urban issues, particular challenges in world-class cities,

sociology of the city, and its implications for mission in the city. Prerequisite: BTAT-3510 Introduction to Urban Missiology. (odd vears)(Fee: \$75)

BTAT-4560 Text-Driven Preaching 2-Fa 3 hours

Advanced course on the nature of preparing and delivering sermons shaped by Scripture's textual meaning. Emphasis is placed on moving from textual interpretation of various biblical genres to skilled delivery to a contemporary audience. Prerequisite: BTAT-3500 Text-Driven Preaching 1 or permission of the instructor. (dual-listed with BTAT-6560 Text-Driven Preaching 2) BTAT-4710 Ministry Internship-Fa, Sp, Su

A mentored and evaluated ministry experience under the direction of a qualified field mentor. Prerequisites: approval of the faculty of the School of Biblical and Theological Studies; senior academic status; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; one history and theology elective BTHT-XXXX; one applied theology elective BTAT-XXXX. Repeatable up to three times

BTAT-4720 Cross-Cultural Missionary Internship 3–12 hours

Internship consisting of four to six weeks in a cross-cultural context gaining experience in acclimating to a cross-cultural surrounding and engaging in missions activity in that setting. Supervision is provided by School of Biblical and Theological Studies faculty and an approved missionary/pastor. This internship is open to students in various majors, with the approval of the faculty. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; two missions courses; approval of the SBTS faculty. Repeatable up to 12 credit hours.

BTAT-4730 Pastoral Internship

3-12 hours

4 hours

A mentored and evaluated local church ministry experience under the direction of qualified pastoral staff. This is an opportunity to utilize and develop knowledge and skills from courses in a ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. Prerequisite: approval of the faculty of the School of Biblical and Theological Studies, senior academic status, completion of the following courses BTAT-3420 Introduction to Pastoral Ministry; BTAT-3430 Ministerial Counseling; BTAT-3500 Text-Driven Preaching 1; BTAT-4560 Text-Driven Preaching 2.

BTAT-4900 1–3 hours

Independent Study in Applied Theology-Fa, Sp, Su

Students will investigate an area of pastoral ministry or missions, the latter including mission boards, methods, and places of service.

BTAT-4990 Topics in Applied Theology–Fa, Sp 1–3 hours

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Bible and Theology — Biblical Languages (BTBL)

BTBL-2010 Introduction to Biblical Language—Fa 3 hours

This course is an introduction to the basic principles of phonology (sounds), morphology (forms), and grammar of biblical Greek and Hebrew. (Fee \$100)

BTBL-2510 Elementary Greek I-Fa

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BTBL-2520 Elementary Greek II-Sp 4 hours

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BTBL-3510 Intermediate Greek I–Fa, Sp 3 hours

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. *Prerequisite: BTBL-2510, 2520 Elementary Greek.* (dual-listed with BTBL-6510 Intermediate Greek)

BTBL-3520 Intermediate Greek II–Fa, Sp 3 hours

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. *Prerequisite: BTBL-3510 Intermediate Greek I.*

BTBL-3610 3 hours

Biblical Hebrew Grammar and Syntax I-Fa

Biblical Hebrew Grammar and Syntax I equips the student with the essential elements of nominal and verbal morphology, a working vocabulary, and a foundational understanding of phrase and clause syntax.

BTBL-3620

3 hours

Biblical Hebrew Grammar and Syntax II-Sp

Biblical Hebrew Grammar and Syntax II initially focuses on clause diagraming and then moves to syntax above the level of the clause. Students will work through the Hebrew text of a small book (e.g., Jonah, Ruth, etc.), acquiring skills for Hebrew exegesis. They will also develop a vocabulary of 1,000 words based on frequency.

BTBL-4110 Greek Syntax and Exegesis—Sp 3 hours

Exegetical study of the Greek New Testament, focusing on the grammatical and syntactical issues of specific passages. The course provides the opportunity for students to develop their own exegetical skills in working with the Greek text of the New Testament and to grow in their ability to preach and teach expository messages on the Bible. *Prerequisites: BTBL-3510 Intermediate Greek I.* (dual-listed with BTBL-6110 Greek Syntax & Exegesis)

BTBL-4510 Readings in New Testament Greek-Sp 1 hour

Through the translation of a wide variety of Greek texts primarily from the New Testament period, this course reviews and strengthens foundational concepts and skills for the study of Koine Greek. *Prerequisites: BTBL-3510 Intermediate Greek I* (even years).

BTBL-4900 1–3 hours

Independent Study in Biblical Language-Fa, Sp, Su

The student will translate and/or exegete a Scripture passage or investigate advanced grammar and syntax.

BTBL-4990 Topics in Biblical Languages–Fa, Sp 1–3 hours

Investigation of special topics in Bible and theology that have intrinsic worth and engage student interest. *Prerequisites:* permission of instructor required for non-majors.

Bible and Theology — Biblical Studies (BTBS)

BTBS-1000 Introduction to Biblical Studies-Sp

1 hour

This course will introduce the student to the field of biblical studies and related career opportunities. This will provide an overview of the major and the various complementary minors, introduce the various areas of study and related skills, survey career posibilities, and aid the student in determining his or her fit with the field.

BTBS-2020 Biblical Research Methods-Fa

0 hour

The student will learn both how to conduct research and how to produce a research paper, the contents and style of which comply with generally accepted standards held by biblical scholars. In addition, the student will demonstrate these skills by producing a research paper that proposes the student's plan for fulfilling the program's senior-seminar capstone requirement. (Fee: \$15) (even years)

BTBS-3400 Bible Backgrounds-Sp

An introduction to the world of the Bible including the historical context, geographical setting, and cultural milieu. These will be accomplished through a survey of Ancient Near Eastern backgrounds, a survey of the main geographical features of Israel and the Fertile Crescent, and a survey of Intertestamental literature. *Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.* (odd years)

BTBS-4310 Hermeneutics–Fa, Sp 3 hours

A study of the theory and related practice of the roles of author, reader, and text toward the end of authoritative interpretation and contextualization of the Bible. (crosslisted with BTHT-4310 Hermeneutics) (dual-listed with BTBS/BTHT-6310 Hermeneutics)

BTBS-4850 Senior Seminar—Sp

3 hours

The senior seminar is a reading and writing intensive course dealing with key aspects of biblical studies. Students will meet with the appointed biblical studies faculty for written presentations and discussion of guided readings in classical and contemporary studies in the discipline. *Prerequisites: senior status.*

Bible and Theology — Christian Ministry (BTCM)

BTCM-1000 Orientation to Bible Ministries Majors-Fa 1 hour

An introduction to the ministries majors provided within the School of Biblical and Theological Studies (youth ministries, Christian education, or missions). The course will provide an overview of the program, survey career opportunities in Christian ministry, and introduce the student to significant people and resources in the field, on the campus, and in the community. Credit/no credit.

BTCM-2050 Foundations for Ministry-Fa

This course will provide an introductory view of Christian ministry within the context of the local church. It will focus on how worship directs the development and implementation of Christian service related to the edification of the body of Christ and the evangelism of the lost. The topics that will be addressed will include a theology of church service, the definition of biblical leadership, the essential qualities of the minister, the missiological directive of Christianity, and various ministries that are frequently employed in the contemporary setting. (odd years)

BTCM-2200 Introduction to Youth Ministry-Sp

The course will examine the status of contemporary youth ministries, including a survey of various models of ministry. Foundational personal issues for the professional Christian minister will be explored, including a definition of "success" in youth ministries, and the knowledge, skills, heart, and character necessary for one to lead such ministries successfully.

BTCM-2400 Interpreting and Teaching the Bible-Fa 6 hours

Principles for interpreting, organizing, and presenting the biblical text, and a survey of learning theory are examined to provide a framework for effective lesson preparation in light of the characteristics and needs of students. Prerequisite: BTGE-1725 The Bible and the Gospel.

BTCM-3110 Clinical Teaching in Bible-Fa, Sp

1 hour Students are assigned to assist a university instructor in classroom teaching, evaluation, and related responsibilities. The student must complete 45 clock hours of clinical involvement.

BTCM-3510 Small Group Ministry-Fa 3 hours

Study of the theory and practice of the small group process in ministry. Emphasis will be given to the formulation and maintenance of small groups. Emphasis placed on how evangelism and spiritual maturity can be fostered by the small group environment.

BTCM-3520 Counseling and Mentoring Women-Fa 3 hours

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as PYCH.

BTCM-3530 3 hours

Contemporary Ministry to Women and Girls-Sp

Study of women today who are impacting the Church and edifying the body of Christ through various ministry opportunities. The course also includes a survey of current and potential fulltime, part-time and volunteer opportunities for women, concluding with the development of each student's own "dream ministry." (dual-listed with BTCM-6530 Contemporary Ministry to Women &

BTCM-3560 Counseling and Mentoring Men-Fa, Sp

In this course, the distinctive theological foundations and skills of biblical counseling will be examined and applied specifically to the ministry of mentoring and counseling men. Study will focus on the mandate and skills of leading men toward comprehensive maturity and counseling as it pertains to common life challenges for men in contemporary society. Crosslisted with BTAT. Prerequisite: BTAT-3400 Biblical Care and Counseling; or permission of the instructor.

BTCM-3685 Children's Ministries-Sp

3 hours

An engagement of biblical texts to establish a biblical theological approach to ministry to preschool and elementary-age children and their families in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice.

BTCM-3700 Campus Ministries-Sp

1 hour

2 hours

4 hours

Principles from Scripture are examined to prepare a biblical philosophy for minstry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ageappropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. Prerequisites: BTCM-2400 Intrepreting and Teaching the Bible; major or minor status or permission of the instructor.

BTCM-3705 Youth Ministries-Sp

3 hours

An engagement of biblical texts to establish a biblical theological approach to ministry to junior high and senior high youth in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice. Prerequisites: BTCM-2200 Introduction to Youth Ministry; or permission of the instructor. (Fee: \$20)

BTCM-3725 Adult Ministries-Fa

3 hours

1 hour

An engagement of biblical texts to establish a biblical theological approach to ministry to adults of various ages in connection with the local church, with an awareness of familial influences, developmental characteristics, and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ministry programs. Course consists of class sessions and teaching practice.

BTCM-4100 3 hours

Leadership of Christian Educational Ministries-Sp

An examination of models of leadership for Christian ministries, emphasizing practical issues such as developing mission and vision statements, creating effective leadership teams, and the strategic planning, implementation, and oversight of ministries. For youth ministry and Christian education majors, this must be the final course taken from the sequence of the required BTCM courses. Prerequisites: For CE and youth ministries majors: BTCM-2400 Interpreting and Teaching the Bible; BTCM-3685 Children's Ministries; BTCM-3700 Campus Ministries; BTCM-3725 Adult Ministries. No prerequisites for non-majors. (Fee: \$75)

BTCM-4300 Teaching Ministry of the Church-Fa 3 hours

Course focuses on the practice of expressing biblical and theological content in written documents and/or teaching curriculum for various audiences and settings. Attention is given to the variety of delivery methods for expositional teaching available within a church's ministry. (Crosslisted with BTAT) (dual-listed with BTAT/BTCM-6300 Teaching Ministry of the Church)

BTCM-4350 Teaching Lab-Fa, Sp

This course focuses on the practice of teaching biblical and theological content in a local church and/or para-church setting. Attention is given to the delivery of a biblical lesson, moving from textual interpretation to skilled proclamation. Prerequisites: BTCM-4300 Teaching Ministry of the Church; or BTCM-3705 Youth Ministries; or BTCM-3725 Adult Ministries.

BTCM-4740 Internship in Christian Ministries 3–12 hours

A mentored and evaluated ministry experience under the direction of a qualified filed mentor. This is an opportunity to utilize and develop knowledge and skills from classes in a ministry context appropriate for student interest and preparation. Repeatable up to 12 hours. Capstone course. Prerequisites: 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BTAT-2400 Introduction to Evangelism or BTAT-3410 Discipleship; and one course in ministry concentration area. Credit/No Credit.

BTCM-4750 Internship in Youth Ministries 3–12 hours

A mentored and evaluated youth experience under the direction of a qualified youth minister. This is an opportunity to utilize and develop knowledge and skills from classes in a youth ministry context appropriate for student's interest and preparation. Capstone course. Repeatable to 12 hours. Prerequisites: 1) Approval of the faculty of the School of Biblical and Theological Studies. 2) Senior academic status. 3) Completion of the following five courses: BTAT-2350 Theological Foundations of Ministry; BTCM-2200 Introduction to Youth Ministry; BTCM-2400 Interpreting and Teaching the Bible; BTCM-3700 Campus Ministries; BTAT-2400 Introduction to Evangelism or BTAT-3410 Discipleship. Credit/No Credit.

BTCM-4900 1–3 hours

Independent Study in Christian Education—Fa, Sp, Su
Students will investigate a significant topic or Scripture passage
of special interest with a view toward integration of knowledge.

BTCM-4990 Topics in Christian Education—Fa, Sp 1–3 hours

Investigation of special topics in Bible and theology, that have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Bible and Theology — General Education (BTGE)

BTGE-1725 The Bible and the Gospel-Fa, Sp

3 hours

An introductory course on the nature of the Bible, helpful tools for biblical interpretation, biblical practices that engender growing in spiritual maturity, and the Gospel-sharing task of all believers. Topics of emphasis include the content and appeal of the Gospel, the Holy Spirit's role in inspiring the Bible and in applying the Bible to the believer's life, gaining a valid interpretation of the author's textual meaning, and the role of the local church in spiritual growth.

BTGE-2730 Old Testament Literature—Fa, Sp, Su 3 hours

Survey of the entire Old Testament, giving special attention to authorship, historical background, and the theme of each book with attention to literary genre. This study traces the history of the Hebrew nation from its origin to the time of Jesus Christ. *Prerequisites: BTGE-1725 The Bible and the Gospel.*

BTGE-2740 New Testament Literature—Fa, Sp, Su 3 hours

Survey of the entire New Testament, including the historical background of the Inter-Testamental period, giving special attention to main events, the authorship and content of each book with attention to literary genre, and the unfolding of God's redemptive purpose through the Lord Jesus Christ. *Prerequisites: BTGE-1725 The Bible and the Gospel, BTGE-2730 Old Testament Literature.*

BTGE-3755 Theology I-Fa, Sp

3 hours

An introductory reflection on the theological task, the doctrines of the triune God, creation and humanity, revelation, and sin by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges. *Prerequisite:* BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature.

BTGE-3765 Theology II-Fa, Sp

3 hours

An introductory reflection on the theological task, the doctrines of Christ, salvation, the Holy Spirit, the Church, and last things by means of a conversation between the Bible and classic and contemporary theological literature. This theological reflection will be brought to bear on contemporary challenges with a focus on developing the students' practice of theological thinking. Prerequisite: BTGE-1725 The Bible and the Gospel; BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; BTGE-3755 Theology I.

Bible and Theology — History and Theology (BTHT)

BTHT-2500 Church History-Fa

3 hours

An introduction to the history of Christianity covering the major people, movements, institutions, and events of the Church from its founding by Jesus Christ to the present. This course examines the unique ways Christianity has shaped and been shaped by its environment, the rich diversity of its expressions through the ages, and the significant purpose it fulfills in society and the world.

BTHT-2910 Theological Research—Fa, Sp 2 hours

This course is designed to survey the basic process, as well as selected special processes, germane to the field of theological research. *Prerequisite: BTGE-1725 The Bible and the Gospel.*

BTHT-3050 Renaissance and Reformation Europe-Fa 3 hours

A survey of the period spanning the fourteenth through the seventeenth centuries, focusing on the origins, rise, nature, and waning of the Renaissance, especially humanism, and the origins, development, and influence of the Protestant Reformations and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. Crosslisted with HIST. (even years)

BTHT-3310 American Church History-Sp

3 hours

A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. Crosslisted with HIST. (odd years)

BTHT-3340 3 hours

Christian Theology 1: Bible, Trinity, God the Father—Fa Study of the doctrines of the Scripture and the triune God,

with special emphasis on God the Father. The related biblical and historical material along with contemporary discussions will be considered. Ministry implications of the doctrines will garner attention. *Prerequisites: BTGE-3755 Theology I or permission of the instructor.* (dual-listed with BTHT-6340 Christian Theology 1: Bible, Trinity, God the Father)

BTHT-3350 3 hours

Christian Theology 2: God the Son and God the Spirit–Sp Study of the persons and work of both Christ and the Holy Spirit. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. Prerequisite: BTGE-3765 Theology II or permission of the instructor. (dual-listed with BTHT-6350 Christian Theology 2: God the Son and God the Spirit)

BTHT-3360 3 hours

Christian Theology 3: Humanity, Angels, and Salvation-Fa

Study of the nature of humans, heavenly beings, and God's saving work from election through final consummation. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. *Prerequisite:* BTGE-3755 Theology I or permission of instructor. (dual-listed with BTHT-6360 Christian Theology 3: Humanity, Angels, and Salvation)

BTHT-3370 3 hours

Christian Theology 4: The Church and Last Things-Sp

Study of the nature of the church and its mission in the world until the consummation of all things. The ultimate end of individuals and the corporate bodies of the church and israel will be covered. The related biblical and historical material along with contemporary discussions of the doctrines will be considered. Ministry implications of the doctrines will garner attention. Prerequisite: BTGE-3765 Theology II or permission of the instructor. (dual-listed with BTHT-6370 Christian Theology 4: The Church and Last Things) (even years)

BTHT-3500 Historical Theology-Sp

3 hours An examination of the development of Christian doctrine from the Apostolic Fathers to the modern era. The course will highlight key thinkers and theological developments in the patristic, medieval, Reformation and modern eras. Attention will be given to the reading and analysis of primary documents. Prerequisites: BTGE-2730 Old Testament Literature, BTGE-2740 New Testament Literature, and BTHT-2500 Church History. (dual-listed with BTHT-6500 Historical Theology) (even years)

BTHT-3510 Christian History and Theology I-Fa 3 hours

A study of the history of Christianity and the development of doctrine between the apostolic successors and the late medieval period. Attention will be given to the major people, key thinkers, movements, and significant events of the Church. This course examines the primary sources that depict the church's activity and articulate Christian theology. This course depicts Christianity's historical interaction with its context, the major and minor voices in theological discussions, and the significant purpose the Church has fulfilled in society. (dual-listed with BTHT-6110 Christian History and Theology I)

BTHT-3520 Christian History and Theology II-Sp 3 hours

A study of the history of Christianity and the development of doctrine between the early reformers to the modern period. Attention will be given to the major people, key thinkers, movements, and significant events of the church. This course examines the primary sources that depict the Church's activity and articulate Christian theology. This course depicts Christianity's historical interaction with its context, the major and minor voices in theological discussions, and the significant purpose the Church has fulfilled in society. (dual-listed with BTHT-6120 Christian History and Theology II)

BTHT-3740 Biblical Theology of Womanhood-Sp 3 hours

A survey of key biblical components that delineates what it means to be female in Christ. The course includes a comprehensive study of major biblical passages concerning women, a survey of women in the Bible, and discussions of the application of these texts within the current cultural milieu. (duallisted with BTHT-6740 Biblical Theology of Womanhood)

BTHT-3750 Historical Theology of Womanhood-Fa 3 hours

This course includes an overview of major theological concepts developed and discussed throughout the various periods of church history as well as an overview of major events in the history of the church. It will discuss the church's understanding of humanity throughout these periods, with a particular interest in womanhood. This contribution of women to both theological and historical developments in the church will be investigated. (odd years)

BTHT-3840 Theology of Sexuality and Family-Sp 3 hours

A study of the key issues in biblical and systematice theology related to human sexuality, gender, marriage, and family. Emphasis will be given to central biblical texts for formation of doctrine, historical disputes, and contemporary challenges, such as homosexuality and transgenderism. Crosslisted as BTAT. Prerequisite/corequisite: BTGE-3755 Theology I. (odd years)

BTHT-4100 Biblical Theology-Fa, Sp 3 hours

A study of some of the major distinctive theologies of the Old and New Testaments within the overall unity of Scripture. This course focuses both on the varieties and tensions among biblical authors and collections within their particular genres and historical settings, and on the similarities and unifying themes among the biblical writings and through both Testaments. (dual-listed with BTHT-6100 Biblical Theology)

BTHT-4220 Early Christian Thought-Sp

3 hours

A study of the development of doctrine between the apostolic successors and the late fifth century A.D. Attention will be given to the major people, key thinkers, movements, and theological controversies during this period of Church history. This course examines the primary sources that depict the Church's activity and articulate Christian theology. Prerequisite/corequisite: BTHT-3510 Christian History and Theology I. (odd years)

BTHT-4300 Global Theology-Fa

3 hours

An introduction to the rise and nature of non-Western theologies along with an examination of the nature of theology and its relevance in contemporary contexts. (dual-listed with BTHT-6300 Global Theology) (even years)

BTHT-4310 Hermeneutics-Fa, Sp

3 hours

A study of the theory and related practice of the roles of author, reader, and text toward the end of authoritative interpretation and contextualization of the Bible. (crosslisted with BTBS-4310 Hermeneutics) (dual-listed with BTBS/BTHT-6310 Hermeneutics) **BTHT-4320** 3 hours

Contemporary Theology in Historical Context-Sp

Critical study of traditions, trends, issues, and major thinkers in contemporary theology. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor. (dual-listed with BTHT-6150 Contemporary Theology in Historical Context)

BTHT-4900 1-3 hours

Independent Study in Theology-Fa, Sp, Su

Students will investigate a significant topic of theology of special interest with a view toward integration of knowledge. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature: or permission of the instructor.

BTHT-4990 Topics in Theology-Fa, Sp

1-3 hours

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors. Prerequisites: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

Bible and Theology — New Testament (BTNT)

BTNT-3110 New Testament 1: Synoptic Gospels-Fa Study of the canonical texts of the Gospels of Matthew, Mark, and Luke. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6110 New Testament 1:

Synoptic Gospels)

3 hours

BTNT-3120 3 hours New Testament 2: Acts and New Testament Epistles-Sp

Study of the canonical texts of Acts, Hebrews, James, 1 and 2 Peter, and Jude. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6120 New Testament 2: Acts and new Testament Epistles)

BTNT-3130 New Testament 3: Pauline Literature-Fa 3 hours

Study of the canonical texts of Romans, 1 and 2 Corinthians, Galatians, Ephesians, Philippians, Colossians, 1 and 2 Thessalonians, 1 and 2 Timothy, Titus, and Philemon. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6130 New Testament 3: Pauline Literature) (even years) BTNT-3140 3 hours

New Testament 4: Johannine Literature-Sp

Study of the canonical texts of the Gospel of John, 1-3 John, and Revelation. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2740 New Testament Literature or permission of the instructor. (dual-listed with BTNT-6140 New Testament 4: Johannine Literature)

BTNT-4900 1-3 hours

Independent Study in New Testament-Fa, Sp, Su

Student will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge. BTNT-4990 Selected Studies in the New Testament 1-3 hours

Selected studies in a New Testament book or specific grouping of books. Repeatable with different books or groupings. Prerequisites: BTGE-2740 New Testament Literature; or permission of instructor. (dual-listed with BTNT-6150 Exposition of New Testament Book)

Bible and Theology — Old Testament (BTOT)

BTOT-3140 Psalms-Fa 3 hours

Examination of the book of Psalms with special attention given to the various types of psalms and their application to life. Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature or permission of the instructor.

BTOT-3150 Wisdom Literature-Sp 3 hours

Examination of the books of Job, Proverbs, Ecclesiastes, and Song of Solomon. Special attention is given to their literary qualities and practical applications for today. Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

BTOT-3110 Old Testament 1: Pentateuch-Fa 3 hours

Study of the canonical texts of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2730 Old Testament Literature or permission of the instructor. (dual-listed with BTOT-6110 Old Testament 1: Pentateuch)

BTOT-3210 Old Testament 2: Former Prophets-Sp 3 hours

Study of the canonical texts of Joshua, Judges, 1 and 2 Samuel, and 1 and 2 Kings. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisites: BTGE-2730 Old Testament Literature or permission of the instructor. (dual-listed with BTOT-6120 Old Testament 2: Former Prophets)

BTOT-3310 Old Testament 3: Latter Prophets-Fa

Study of the canonical texts of Isaiah, Jeremiah, Ezekiel, Hosea, Joel, Amos, Obadiah, Jonah, Micah, Nahum, Habakkuk, Zephaniah, Haggai, Zechariah, and Malachi. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed.. Prerequisites: BTGE-2730 Old Testament Literature; or permission of the instructor. (duallisted with BTOT-6130 Old Testament 3: Latter Prophets)

BTOT-3410 Old Testament 4: Writings-Sp

Study of the canonical texts of Psalms, Job, Proverbs, Ruth, Song of Solomon, Ecclesiastes, Lamentations, Esther, Daniel, Ezra, Nehemiah, and 1 and 2 Chronicles. Attention is also given to the historical, theological, and literary structural considerations for the books. Drawing on the texts, contemporary implications will also be addressed. Prerequisite: BTGE-2730 Old Testament Literature: or permission of the instructor. (dual-listed with BTOT-6140 Old Testament 4: Writings)

BTOT-4900 1-3 hours

Independent Study in Old Testament-Fa, Sp, Su

Students will investigate a significant topic or a Scripture passage of special interest with a view toward integration of knowledge.

BTOT-4990 1-3 hours

Selected Studies in the Old Testament-Fa, Sp

Selected studies in an Old Testament book or specific grouping of books. Repeatable with different books or groupings. Prerequisites: BTGE-2730 Old Testament Literature or permission of instructor. (dual-listed with BTOT-6150 Exposition of Old Testament Book)

Bible and Theology — Philosophy and Apologetics (BTPA)

BTPA-2200 Introduction to Philosophy-Fa, Sp

Survey of the principle issues in Western philosophy, covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy.

BTPA-2240 Logic-Fa

3 hours

3 hours

Study of the principles of correct and fallacious reasoning involved in traditional logic and modern logic. (even years)

BTPA-2250 Ethics-Fa

3 hours

Page 239

Study and evaluation of the major theories of goodness, obligation, and motive and the development of a consistent Christian ethical system, together with the application of ethical theories to contemporary moral problems.

BTPA-2260 World Religions-Fa, Sp 3 hours

An introduction to the teachings and practices of the major world religions along with a Christian response to these religions. BTPA-3240 Epistemology-Fa

Study of the nature, sources, types, tests, and limits of human knowledge. Prerequisite: BTPA-2200 Introduction to Philosophy.

BTPA-3250 Philosophy of Religion-Sp 3 hours

Analysis of the major philosophical problems relating to religion as these have arisen in the modern intellectual environment. Prerequisite: BTPA-2200 Introduction to Philosophy. (dual-listed with BTPA-6250 Philosophy of Religion)

BTPA-3280 Metaphysics-Sp 3 hours

Study of selected topics in metaphysics, including the mindbody problem, substance, qualities and universals, identity, space and time, causation, and freedom and determinism. Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)

BTPA-3310 3 hours

History of Ancient and Medieval Philosophy-Fa

Survey of men and movements in Greek and Christian philosophy from Thales to Aguinas. Selected, representative writings of the philosophers will be read. Prerequisite: BTPA-2200 Introduction to Philosophy. (odd years)

BTPA-3320 History of Modern Philosophy-Sp

Study of the principle philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized. *Prerequisite: BTPA-2200 Introduction to Philosophy.* (odd years)

BTPA-3330 Contemporary Philosophy–Fa 3 hou

Survey of significant European and American philosophies of the 19th and 20th centuries covering philosophical developments from Hegelianism to analytic philosophy. *Prerequisite: BTPA-2200 Introduction to Philosophy.* (even years)

BTPA-3450 Biblical Apologetics-Sp

3 hours

3 hours

Study of theological and philosophical arguments for the Christian faith. Emphasis on biblical revelation and its use in the defense and confirmation of the Gospel in historical sources and contemporary settings. *Prerequisite: BTGE-2740 New Testament Literature; or permission of the instructor.* (dual-listed with BTPA-6450 Christian Apologetics) (odd years)

BTPA-3500 Current Religious Movements-Sp 3 hou

Survey of new religious movements with attention given to their history, beliefs, and practices, as well as to critical assessment and appropriate response. Prerequisite: BTGE-2730 Old Testament Literature; BTGE-2740 New Testament Literature; or permission of the instructor.

BTPA-4030 Philosophy and Literature—Sp

2 hours

Course will be divided into two sections. The first will focus on philosophy of literature, exploring literary theory, hermeneutics, and literature as a work of art. The second part of the course will examine philosophy in literature, looking at the ways in which philosophical ideas are expressed through the medium of literature. (even years)

BTPA-4290 Topics in Philosophy-Sp

1–3 hours

3 hours

Various topics offered as interest demands. For majors in philosophy. Permission of instructor required for non-majors and minors.

BTPA-4900 1–3 hours

Independent Study in Philosophy-Fa, Sp, Su

The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge.

BTPA-4910 Seminar in Philosophy-Fa 3 hours

Senior course in which students will demonstrate their knowledge of philosophy and the integration of philosophy with Scripture and the liberal arts. This will be accomplished through guided research, critical thinking, and demonstration of oral and written skills. Course will be taken during the year immediately prior to graduation. Capstone course. Credit/no credit.

School of Business Administration Course Descriptions

Accounting (ACCT)

ACCT-2110 Principles of Accounting I-Fa, Sp

An introduction to accounting for business organizations with an emphasis on financial statement preparation and interpretation. Topics include the accounting cycle, present value, and accounting for stock and debt instruments. *Prerequisite:* sophomore status.

ACCT-2120 Principles of Accounting II–Fa, Sp 3 hours

A continuation of accounting for business organizations. Topics include cash flow statements, investments, and managerial accounting concepts. *Prerequisite: ACCT-2110 Principles of Accounting I.*

ACCT-3110 Intermediate Financial Accounting I-Fa 3 hours

Theoretical concepts and accounting standards that form the basis for accounting practices, financial statement preparation, and analysis. Topics include financial statement formats, present value, and accounting for receivables and inventory. *Prerequisite:* ACCT-2120 Principles of Accounting II.

ACCT-3120 Intermediate Financial Accounting II-Sp 3 hours

Continuation of theoretical concepts and accounting standards that form the basis for accounting practices and financial statement preparation and analysis. Topics include: accounting for fixed assets, intangible assets, current liabilities, long-term debt, and stockholders' equity. *Prerequisite: ACCT-3110 Intermediate Financial Accounting 1.*

ACCT-3150 Accounting Information Systems-Sp 3 hours

A study of the flow of information through the accounting system, emphasizing systems analysis and design, internal controls, and computer applications in the business environment. *Prerequisites: ACCT-2120 Principles of Accounting II; junior status.*

ACCT-3170 Managerial Accounting-Sp

hour

Principles of industrial and distribution cost accounting, job order and process cost systems, and standard costs. *Prerequisite:* ACCT-2120 Principles of Accounting II.

ACCT-3410 Topics in Accounting—Fa, Sp, Su 1–3 hours

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

ACCT-4110 Federal Income Taxes-Fa

3 hours

Examines the computation of federal income tax liabilities for individuals and sole proprietorships. Typical course content includes income, exclusions, exemptions, deductions, credits, property transactions, and tax accounting methods. Introduces basic principles of tax research and planning *Prerequisite: ACCT-2120 Principles of Accounting II.*

ACCT-4120 Auditing-Sp

3 hours

A study of auditing standards and related auditing procedures. Topics include evaluation of audit evidence, professional responsibilities, and auditors' reports and opinions. *Prerequisite: ACCT-3120 Intermediate Financial Accounting II.*

ACCT-4130 Advanced Financial Accounting-Sp 3 hours

A study of consolidated financial statements, foreign exchange, estates and trusts, branch accounting, and related problems.

Prerequisite: ACCT-3120 Intermediate Financial Accounting II.

ACCT-4150

3 hours

Government and Nonprofit Accounting-Fa

Accounting and reporting principles, standards, and procedures applicable to nonprofit organizations. *Prerequisite: ACCT-3120 Intermediate Financial Accounting II or permission of instructor.*ACCT-4170 Advanced Managerial Accounting—Sp 3 hours

Advanced topics in accounting for manufacturing companies and the use of the computer in cost accounting applications. *Prerequisite: ACCT-3170 Managerial Accounting.*

ACCT-4190 CPA Review-Sp

3 hours

Comprehensive review of the application of accounting principles, using specific problems and development of approaches to problem solving. Useful as intensive preparation for the CPA examination. *Prerequisite: ACCT-3120 Intermediate Financial Accounting II.*

ACCT-4210 Taxation of Business Entities-Sp 3 hours

An examination of the tax provisions governing C Corps, S Corps, partnerships, and estates. Analyzes international and multistate taxation of corporations. *Prerequisite: ACCT-4110 Federal Income Taxes*.

ACCT-4220 International Accounting-Sp 3 hour

This course offers information about global accounting diversity and the reasons for it. International Financial Reporting Standards (IFRS) are discussed along with the history of international standard development. Foreign currency exchange rates, transactions, and hedging are covered. Students also do research into accounting in multinational corporations. *Prerequisites: ACCT-2110 Principles of Accounting II, ACCT-2120 Principles of Accounting II.*

ACCT-4810 Seminar in Accounting-Sp

1 hour

A forum for discussion of contemporary topics and issues in accounting. Current issues will be chosen from topics in financial and managerial accounting, auditing, tax, and governmental and nonprofit accounting. Prerequisites: ACCT-3170 Managerial Accounting; ACCT-4110 Federal Income Taxes; ACCT-4120 Auditing.

Business Administration (BUS)

BUS-1000 The Business Profession-Fa, Sp

2 hours

Provides a broad and comprehensive introduction to the field of business and encourages students to discover their calling to ministry in the marketplace. Includes an introduction to the academic requirements of the program and provides opportunity for practical experience in the field of business. (Fee \$25)

BUS-2100 Business Communication—Fa, Sp

3 hours

Instruction for writing business letters, memos, email, and business reports. Oral business presentations, group collaboration, and the communication process in general are also discussed. *Prerequisite: ENG-1400 Composition*.

BUS-2150 Statistics for Business–Fa, Sp

3 hours

An introduction to statistical methods used in business decision making including descriptive statistics, probability, probability distributions, interval estimation, hypothesis tests involving variances, t-tests, Chi-square tests, F-tests, regression models, and time series. *Prerequisites: GMTH-1020 College Algebra*.

BUS-2170 Introduction to Business Analytics-Sp 3 hours

This course will expose students to the data analytics practices executed in the business world. Key areas include the analytical process; how data is created, stored, accessed; and how the organization works with data and creates the environment in which analytics can flourish. The course will explore the use of statistical programming languages and packages to perform data analysis. This course also provides a basis for going deeper into advanced investigative and computational methods. *Prerequisites: ITM-2100 Database Management; BUS-2150 Statistics for Business.* (even years

BUS-2180 Business Law I–Fa, Sp 3 hour

Examines the legal environment in which business operates. The course begins by surveying various sources of law and related ethical principles, and the structure and function of the judicial system. The remainder of the course addresses substantive areas of law, typically including torts, contracts, warranty and consumer protection, agency and employment, business entities, antitrust, intellectual property, and environmental

BUS-3000 The Business Experience—Fa, Sp 1 hour

This course is to prepare the business student to transition into the work world upon graduation. Topics and experiences include: résumé writing, interviewing, networking, internships, and business etiquette. (Fee \$25).

BUS-3150 Operations Analysis–Fa, Sp **3 hours**

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. *Prerequisites: BUS-2150 Statistics for Business.*

BUS-3180 Business Law II-Sp 3 hours

Continues the study of the legal environment in which business operates, with particular focus on topics covered on the CPA exam. Typical course content includes sales, negotiable instruments, secured transactions, bankruptcy, partnerships, securities regulation, real and personal property, wills and trusts, and insurance. *Prerequisite: BUS-2180 Business Law I.*

BUS-3280

Integrated Business Core Practicum-Fa

3 hours

Guided by faculty, students will organize and operate a business for the semester and also plan and complete a community service project. Students in this course will apply concepts learned in prerequisite and corequisite courses in establishing a business venture. Prerequisites: MRKT-3600 Principles of Marketing; Corequisites: MGMT-3500 Principles of Organization and Management; FIN-3710 Principles of Finance (corequisite courses taken concurrently as a block).

BUS-3400 1–3 hours

Independent Study in Business Administration—Fa, Sp, Su

Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing.

BUS-3410 Topics in Business–Fa, Sp, Su

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. (crosslisted with ENTR-3410 Topics in Entrepreneurship; ITM-3410 Topics in Information Technology Management)

BUS-3450 Business Internship

3-12 hours

A work-study program designed for junior and senior business administration majors to receive a variety of job-related experiences in a business environment. The program is arranged and administered by the department.

BUS-3514 3 hours

Entrepreneurial Ventures in E-commerce-Sp

This course provides instruction and guidance on how to create and run a profitable, Internet-based business. Topics include reviewing intellectual property rights, designing a website to maximize revenue, developing an advertising and marketing plan for online businesses, sourcing start-up capital, utilizing analytics to test search engine optimization, and leveraging social media accounts to target consumers and grow the business. (even years) BUS-3910 International Business—Fa, Sp 3 hours

This course is a broad overview of how business is different in a global setting by introducing key concepts, terms, trends, theories and organizations. Each group will put these foundational principles into practice by developing a country analysis and business plan to launch a fast food restaurant into a new country. Additionally, students will consider how to use the principles of Business As Mission (BAM) to achieve spiritual objectives as well as profit. (Fee: \$20)

BUS-4150 3 hours

Advanced Business Analytics and Visualization

This course will explore the field of data analytics by covering state-of-the-art modeling, analysis, and visualization techniques. The course will emphasize the importance of understanding the underlying data, validating the data, applying a meaningful analytic to the data, and only then visualizing the data. The course will discuss practical challenges involving complex real-world data and include several case studies and hands-on work with a modern data analysis and visualization package. Crosslisted with ITM. *Prerequisiste: BUS-2170 Introduction to Business Analytics*. (odd years)

3 hours

BUS-4420 2 hours Business Ethics and Social Responsibility—Fa, Sp

Ethics asks questions about what goals one should pursue and what actions are appropriate in attempts to achieve these goals. The course examines alternative frameworks for analyzing difficult situations. Social responsibility refers to business decision making linked to ethical values, compliance with legal requirements, and respect for people, communities, and the environment. Ultimately, the course will deal with how our biblical worldview defines and drives the choices we face in the business world. Open only to seniors in business administration. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted.

Economics (ECON)

ECON-2110 Essentials of Economics–Fa, Sp 3 hour

The course provides an introduction to the essential principles of economics. These principles would include such areas as supply and demand, elasticity, productivity and cost analysis, economic efficiency, national income, the consumer price index, monetary and fiscal policy, business cycles, and economic performance. Course not applicable to any major from the School of Business Administration and also not open to students with credit for ECON-2330 Microeconomics and/or ECON-2340 Macroeconomics.

ECON-2330 Microeconomics-Fa, Sp

3 nours

The area of economic inquiry that is concerned with the effect of human behavior on the conduct of affairs within rather narrowly defined units. It is the study of decision making regarding consumption, production, and exchange that is carried on by individual households and by business firms.

ECON-2340 Macroeconomics–Fa, Sp 3 hours

The area of economic study that focuses on how human behavior affects outcomes in highly aggregated markets, such as the market for labor or for consumer products. It is a study of the behavior of the economy as a whole, including the study of economic phenomena such as interest rates, the price level and national income, and output and employment. *Prerequisite or corequisite: ECON-2330 Microeconomics or permission of instructor.*

ECON-3310 Money and Financial Markets-Sp **3 hours**

This course will introduce the student to monetary economics and how the monetary system impacts the whole complex of financial markets. Building on the foundation of macroeconomics, the course will include detailed analysis of financial markets and institutions as well as monetary theory. The institution of central banking and its influence on money and financial markets will be specifically evaluated. *Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with FIN-3310.*

ECON-3335 Intermediate Microeconomics-Fa 3 hours

Microeconomics is a study of economic principles that explain how our market-directed economy organizes and coordinates production and exchange. The principles explain a wide variety of economic and social phenomena. The course studies basic economic units, households and firms, and the equilibrium through exchange among competing and cooperating people. Prerequisites: ECON-2330 Microeconomics; GMTH-1020 College Algebra; or permission of instructor.

ECON-3340 History of Economic Thought 3 hours

Principal figures in the development of economic ideas and the contribution of each period of economic thought from the mercantilist to the present. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

ECON-3345 Intermediate Macroeconomics—Sp

This course will expand on macroeconomic principles to provide an analytical framework for understanding business cycles and associated short run economic fluctuations, long-run correspondence with classical exonomic theory, as well as growth theory. Macroeconomic policy debates will be reviewed with the analytical tools developed. *Prerequisites: ECON-2340 Macroeconomics; GMTH-1020 College Algebra; or permission of instructor.*

ECON-3350 Comparative Economic Systems-Fa 3 hours

Analysis of different types of economic systems. Special emphasis is placed on centralized planning from both a theoretical and empirical perspective. Centralized economic planning is compared and contrasted with a free-market distribution of resources. Individual country case studies are included. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

ECON-3360 International Trade and Economics-Fa 3 hours

A study of international economic theory and international trade policy. The economic basis of trade and factor mobility, the benefits of international trade, and the barriers to international trade flows will be examined. *Prerequisite: ECON-2330 Microeconomics or permission of instructor.*

ECON-3375 Mathematical Economics-Sp

Mathematical Economics presents the mathematics required for studying economics at the graduate level. Mathematical concepts are developed in the context of economics and applications are drawn from a wide range of fields in economics including microeconomics, macroeconomics, and economic growth. The main focus of this course is on optimization; therefore the course will focus on single and multi-variable calculus techniques to provide tools to analyze economic problems. *Prerequisites: ECON-2330 Microeconomics; ECON-2340 Macroeconomics; ECON 3335 Intermediate Microeconomics; MATH-1710 Calculus I.* (odd years)

ECON-3380 3 hours

Economic Development and Political Economy—Sp
A study of the interaction of political and economic systems to produce economic development and growth of nation states. A framework for analysis of development is explored and applied to specific case studies of both industrial and developing economics that have recently undergone significant change. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.*

ECON-3390 Public Finance—Fa 3 hours

This course will review the role of government in the economy, to include measures of economic efficiency and how inefficiencies within the market system may allow for government action to be potentially welfare enhancing. Theories of collective choice will be analyzed, and an analysis of supply and demand in political markets will be used to assess government policies such as regulation and taxation. Crosslisted as PUAD. *Prerequisite: ECON-2330 Microeconomics; or permission of instructor.* (even years) **ECON-3410 Topics in Economics**—Fa, Sp, Su

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

ECON-4110 Introduction to Econometrics-Sp 3 hours

Econometrics is a set of research tools used to estimate and test economic relationships. The methods taught in this introductory course can also be employed in the business disciplines of accounting, finance, marketing, and management and in many social science disciplines. The aim of this course is to provide you with the skills helpful in filling the gap between being a student of economics and being a practicing economist. By taking this introduction to econometrics, you will gain an overview of how statistical techniques can increase understanding of how economic variables are related. *Prerequisites: GSS-3650 Quantitative Methodology or BUS-2150 Statistics for Business.* (even years)

Entrepreneurship (ENTR)

2 hours

2 hours

ENTR-1010 Creative Problem Solving-Fa. Sp

This course prepares students to understand and address two pressing issues in organizations today: how to recognize and create new opportunities and how to think more creatively within workplace environments. Students will be introduced to a number of tools, concepts, and approaches including human-centered design, ideation techniques, the importance of embracing ambiguity, personal responsibility, and the place of risk and failure in entrepreneurship, creativity, and life. (Fee:\$20)

ENTR-1020 Introduction to Entrepreneurship-Fa, Sp 2 hours

This course introduces students to the opportunities and challenges associated with the creation and management of startup and small businesses. Students will learn about the Lean Startup framework, which allows founders to test, advance, and improve business ideas and meet important milestones. The course also provides an overview of small business concepts, including topics such as: how to recognize business opportunities, types and characteristics of entrepreneurship, the business life cycle, entrepreneurial economics, intellectual property, product and service research development and acquisition, and the use of technology.

ENTR-2030 Entrepreneurial Finance-Sp

Entrepreneurial Finance differs from traditional corporate finance due to the way startups are founded and funded. This course lays out the financial decision-making process of founders, owners, and CEOs from early to late-stage ventures and covers financial techniques such as bootstrapping, venture capital, public grants, and crowd funding, etc. Students will learn capital table strategy, discover sources and types of venture funding, and calculate startup venture metrics and valuations.

ENTR-2040 Social Enterprising—Fa, Sp 2 ho

This course uses research and cases from both secular and faith-based organizations to understand the blending of business models and mission-focused purposes to solve social problems and further the Kingdome of God. The student will learn to identify opportunities, develop blended business approaches, avoid pitfalls, determine methods to raise capital, and plan a launch of their enterprise.

ENTR-3010 3 hours

Digital Marketing: Creating Content –Fa, Sp

The rate at which customers shop and source information online is accelerating at a frenzied pace. Many companies — ranging from startups to established corporations — are unsure how to best engage these content-starved consumers and find themselves struggling to grow awareness and generate leads. This course reveals why and how many companies are compelled to supplement or replace traditional marketing methods with digital-style engagements and provides an immersive experience alongside the most common platforms and tactics used in social media marketing, content creation and automated marketing. (Fee:\$20)

ENTR-3020 Digital Marketing: Brand Advertising-Sp 3 hours

Ensuring brands and products are easily found by customers requires both inbound and outbound methods backed by a solid web presence. Choosing the right channels and refining digital content allows companies to enjoy higher conversion rates while receiving the best ROI on advertising efforts. This class will evaluate the different E-commerce Platforms, how to optimize product information and explore the best SEO methods to ensure highest deliverability. Advertising through various PPC (pay-per-click) campaigns then evaluating metrics using assorted analytics software are also covered in this course. (Fee:\$20)

ENTR-3040 Entrepreneurship Practicum–Fa, Sp **1-12 hours**

This course will be a practicum for students to gain experience in a small business or entrepreneurial setting that is appropriate for their future goals. These experiences will be in the form of internships, shadowing entrepreneurs, working in a small business or entrepreneurial firm on significant projects, or in significant roles, or consulting with these types of firms.

Due to the dynamic nature of opportunities provided by small business people and entrepreneurs, it can be taken, with the permission of the lead professor, at any time. In addition, since each experience is unique, it can be taken more than once for up to 12 semester hours. *Prerequisite: Permission of instructor.*

ENTR-3070 Entrepreneurship Accelerator I–Fa, Sp **2 hours**

The Entrepreneurship Accelerator gives developing startups access to mentorship, education, potential investors, and other support to help them reach higher-growth stages and strong positioning to claim a share of their target markets. Accelerator I will pull founders through the process of creating an MVP (Minimum Viable Product) aimed at specific Total Addressable Markets (TAMs). Founders will work with faculty and staff to develop a product roadmap and launch plan. Successful completion of this segment's stage-gates will allow the founder to enroll in ENTR-3080 Entrepreneurship Accelerator II. (Fee: \$40

ENTR-3080 Entrepreneurship Accelerator II–Fa, Sp 2 hours
The Entrepreneurship Accelerator II gives developing startups access to mentorship, education, potential investors, and other support to help them reach higher-growth stages and strong positioning to claim a share of their target markets. Accelerator II pursues high-growth techniques through industrialization and paves the way for obtaining seed capital. Course reviews legal entity types in tandem with business requirements and investigates how to grow sales through the most suitable channels. Founders will work with faculty and staff to develop the best product roadmap and launch plan. Successful completion of the segment's stage-gates will allow the founder to enroll in ENTR-3090 Entrepreneurship Accelerator III. (\$Fee: 40).

ENTR-3090 Entrepreneurship Accelerator III-Fa, Sp 2 hours

The Entrepreneurship Accelerator III gives developing startups access to mentorship, education, potential investors, and other support to help them reach higher-growth stages and strong positioning to claim a share of their target markets. Accelerator III concentrates on the requirements for a successful product/ service launch and establishes a process to obtain venture capital. Founders will explore and evaluate revenue streams and identify how to pivot — if needed — after evaluating feedback from customers, partners and potential investors. Successful completion of this segment's stage-gates will allow the founder to complete the sequence of the Accelerator courses. (Fee:\$40)

ENTR-3410 Topics in Entrepreneurship-Fa, Sp, Su 1-3 hours

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses. (crosslisted with BUS-3410 Topics in Business)

ENTR-3510 3 hours

Entrepreneurship and Small Business Management-Fa

This course will introduce students to business innovation and entrepreneurship in small and large organizations. The basics of envisioning, evaluating, starting, and running a brandnew business and/or a new business unit within an existing organization will be explored. (crosslisted with MGMT-3510 Entrepreneurship and Small Business Management)

End-User Information Systems (EUIS)

EUIS-1000

Word Processing Concepts and Applications

Designed to develop a working knowledge of word processing software and hardware components and to apply these concepts to various software applications. The student will create, format, edit, store, retrieve, and print different types of documents as well as apply advanced features of the software to expand basic documents. Also an overview of the current operating system. **EUIS-1010** 3 hours

Presentation Graphics Concepts and Applications-Sp

Designed to explain basic concepts of graphics software, give detailed information about the types of graphics that are available and when to use each type, demonstrate how to create each of the major types of graphics, and teach basic design concepts. **EUIS-2010** 3 hours

Spreadsheet and Database Concepts and Applications-Sp

Designed to identify concepts and terminology used with electronic spreadsheets and to identify tasks that can be accomplished with spreadsheet software. The students will be able to use the computer to create, format, edit, store, retrieve, and print worksheets, graphs, and charts. The course will also introduce the student to database management systems. Fundamentals of database management concepts will be covered using a microcomputer database application package. Topics will include table design, query, maintenance, and reports. Prerequisite: ITM-1510 Software Tools for Business.

EUIS-2200 Desktop Publishing

2 hours

3 hours

Writing, assembling, and designing publications commonly found in businesses, such as newsletters, brochures, reports, and promotional materials using PageMaker software.

Finance (FIN)

FIN-1710 Personal Finance-Fa, Sp

3 hours

This course is designed to educate and inform the undergraduate student about personal finance, with the view toward practical application, both currently and upon graduation. The course integrates principles of personal finance with biblical principles. Topics include: biblical stewardship, work, financial planning, budgeting, giving, taxation, use of credit, investments, asset protection, retirement and estate planning. (This course is a general elective course.)

FIN-2730 Church Business Administration

3 hours

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.).

FIN-3310 Money and Financial Markets-Sp 3 hours

This course will introduce the student to monetary economics and how the monetary system impacts the whole complex of financial markets. Building on the foundation of macroeconomics, the course will include detailed analysis of financial markets and institutions as well as monetary theory. The institution of central banking and its influence on money and financial markets will be specifically evaluated. Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with ECON-3310.

FIN-3410 Topics in Finance-Fa, Sp, Su

1-3 hours

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

FIN-3710 Principles of Finance-Fa, Sp

3 hours

A study of the theoretical and practical aspects of financial decision making. Topics include financial statement analysis, financial markets, risk and return, determinants of interest rates, time value of money, valuation of financial assets, cost of capital and capital budgeting, dividends, multi-national financial management, and financial planning and forecasting. Prerequisites: ACCT-2110 Principles of Accounting I; BUS-2150 Statistics for Business.

FIN-3730 Investments-Sp

3 hours

A study of the various types of investments including stocks, bonds, mutual funds, commercial, paper, options, and commodities. Particular emphasis is given to return and risk in developing investment strategies. Prerequisite: FIN-3710 Principles of Finance. (Fee \$50)

FIN-3750 International Finance-Sp

3 hours

Discussion and analysis of financial management within a global context. Topics include international financial markets, foreign exchange rates and risk, exchange risk management, and other financial management issues relative to the multinational firm. Prerequisite: FIN-3710 Principles of Finance

FIN-3760 Financial Planning-Fa

3 hours

This course provides an introduction to the field of personal financial planning. The course includes an overview of investments, income taxation, insurance, estate planning, retirement planning, and employee benefits. Prerequisite: FIN-3710 Principles of Finance

FIN-3770

3 hours Security Analysis and Portfolio Management-Fa

The theory and practice of security analysis techniques and portfolio management objectives. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Prerequisite: FIN-3730 Investments. (Fee: \$20)

FIN-4700 Seminar in Finance

1 hour

A forum to discuss contemporary topics and issues in finance and provide guidance in areas of student career interest. Prerequisites: ACCT-3120 Intermediate Financial Accounting II; FIN-3310 Money and Financial Markets; FIN-3710 Principles of Finance: FIN-3730 Investments.

FIN-4710 3 hours **Advanced Security Analysis and Portfolio Management**

Practicum-Sp

An in-depth application of investment theory and techniques. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Prerequisite: FIN-3770 Security Analysis and Portfolio Management. Admission to this course is limited and requires instructor approval. (Fee: \$50)

FIN-4715 Applied Portfolio Management-Fa, Sp

An in-depth application of investment theory and techniques. Students research securities in order to make informed by/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Repeatable up to three times. Prerequisite or corequisite: FIN-3730 Investments. (Fee: \$20)

FIN-4750 Financial Institution Management-Fa

3 hours

This course takes an in-depth look at financial institution management and covers topics such as: types of financial institutions, asset and liability management, risks faced by financial institutions, ways of dealing with those risks, and the regulatory environment in which these institutions operate. *Prerequisite: FIN-3710 Principles of Finance.* (Fee: \$20)

FIN-4770 Advanced Financial Management—Sp 3 hours

An in-depth analysis of topics of concern to financial managers of modern corporations. Topics include capital budgeting, financial forecasting, working capital management, and valuation of merger and acquisition candidates. *Prerequisite: FIN 3710 Principles of Finance.*

Information Technology Management (ITM)

ITM-1500

2 hours

Information Technology for Business-Fa, Sp

This course will focus on understanding the broad nature of information technology and how it fits in today's business world. Students will learn the nature of information technology, its application, and unique business models, as well as how to manage technology from a business value perspective. Fundamentals of the industry, technologies, and application of that technology are developed. Students will experience the IT industry through practical exploration of its breadth and depth.

ITM-1510 Software Tools for Business–Fa, Sp 2 hours

This course emphasizes the use of software in a business environment. Students will develop a working knowledge of spreadsheet, database, and other software packages appropriate to the current business environment. (Fee: \$10)

ITM-1900 Fundamentals of IT Management-Sp 3 hours

This course is an introduction to the field of Information Technology Management (ITM) in the context of managing IT projects. Students will be introduced to computer programming concepts using a visual, software development environment. The course will then guide students through the process of managing a software development project from initial inception to final implementation. Specific topics covered in the course include: project planning, writing vision statements, identifying software requirements, prototyping, visual programming, and software testing.

ITM-2100 Database Management-Fa 3 hours

This course covers database fundamentals while providing a broad survey of the field's major topics. Students learn about the critical nature of databases within Information Technology Management (ITM) contexts. Topics include data storage and retrieval, data modeling, logical and physical design, concurrency and security issues, stored procedures, and triggers. Students apply those topics by creating and managing databases in a SQL Server environment. *Prerequisite: ITM-1510 Software Tools for Business.* (Fee: \$20)

ITM-2300 Introduction to Programming-Sp 3 hours

Intended as the first programming course for Information Technology Management (ITM) majors, this course will introduce the student to the process of programming and to the syntax and usage of the C# programming language. The programming assignments will encourage students to analyze problems in a logical, intentional, and structured manner so that they can develop well-constructed programs using structured and object-oriented programming techniques. Prerequisite or Corequisite: ITM-1900 Fundamentals of IT Management (Fee: \$20)

ITM-3300 3 hours

Advanced Topics in Programming Languages-Fa

This course covers advanced concepts in programming and programming languages using one or more programming languages. Topics include theories of program design and implementation, distributed architectures, business object frameworks, generics, collections, reflection, data binding, and web services. Students will apply course topics in a team project through the development of a distributed information system. *Prerequisite: ITM-2300 Introduction to Programming.* (even years) (Fee: \$20)

ITM-3400 Data Communications and Networking-Fa 3 hours

This course provides a study of the basic concepts of data communications and current networking technology. Topics include discussion of physical-layer considerations, higher-layer implications, and network operating systems. The concepts will be applied through a hands-on project of network design, implementation, and documentation. *Prerequisite: ITM-1900 Fundamentals of IT Management or permission of instructor.* (Fee: \$50)

ITM-3410 1–3 hours

Topics in Information Technology Management—Fa, Sp, Su A variety of courses are covered under this heading on an experimental basis to meet the changing needs of the students. (crosslisted with ENTR-3410 Topics in Entrepreneurship)

ITM-3450 IT Security and Risk Management-Sp 3 hours

This course provides an introduction to the fundamental principles and topics of information technology security and risk managment at the organizational level. Students will learn critical security principles that enable them to plan, develop, and perform security tasks. The course will address hardware, software, processes, communications, applications, and policies and procedures with respect to organizational IT security and risk management. *Prerequisites: ITM 3400 Data Communications and Networking.*

ITM-3500 Web Development-Fa

3 hours

This course will expose students to the process of developing information systems for the World Wide Web using the ASP.NET and C# programming languages. The focus will be on the creation of web applications to support business processes. Topics include HTML, CSS, Model-View-Controller (MVC) design paradigm, LINQ, AJAX, and web services. *Prerequisites: ITM-2300 Introduction to Programming.* (even years) (Fee: \$20)

ITM-3550 Enterprise Architecture—Sp 3 hours

This course explores the design, selection, implementation, and management of enterprise IT solutions. The focus is on applications and infrastructure and their fit within the business. Students learn frameworks and strategies for infrastructure management, data/information architecture, distributed computing, middleware, legacy system integration, and emerging technologies. *Prerequisites: ITM-2300 Introduction to Programming.*

ITM-3600 Business Process Management–Fa 3 hours

In this course students will be introduced to key concepts and approaches to business process management and improvement. The course focuses on both understanding and designing business processes. Students will learn how to identify, document, model, assess, and improve core business processes. Students will be introduced to process design principles. The way in which information technology can be used to manage, transform, and improve business processes is also discussed. *Prerequisites: ITM-1500 Information Technology for Business.*

ITM-3650 Enterprise Systems-Sp

3 hours

This course is designed to provide students with an understanding of the theoretic and practical issues related to the application of enterprise systems within organizations. The main focus of this course is to demonstrate how enterprise systems integrate information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools. The course includes an integrated project, which requires the application of conceptual and technical skills of students. Prerequisite: ITM-2100 Database Management. (even years)(Fee: \$50)

ITM-4150 3 hours

Advanced Business Analytics and Visualization

This course will explore the field of data analytics by covering state-of-the-art modeling, analysis, and visualization techniques. The course will emphasize the importance of understanding the underlying data, validating the data, applying a meaningful analytic to the data, and only then visualizing the data. The course will discuss practical challenges involving complex real-world data and include several case studies and hands-on work with a modern data analysis and visualization package. Crosslisted with BUS. Prerequisiste: BUS-2170 Introduction to Business Analytics. (odd years)

ITM-4300 Advanced Topics in IT Management-Sp 3 hours

This course heading covers a variety of Management Information Systems courses offered on a temporary basis. The dynamic nature of the field of MIS gives rise to the need to address recent changes in technologies, methods, and systems. (even years)

ITM-4400 Systems Analysis and Design-Fa 3 hours

This course provides an understanding of the duties of the systems analyst along with a presentation of philosophies, terminology, and techniques commonly used in the Systems Development Life Cycle. Topics such as business case development, project management, requirements modeling, data design, and user-interface design will be discussed. Students will apply their skills in the completion of an integrated, analysis and design project. Prerequisite: ITM-2100 Database Management.

ITM-4450 IT Audit and Controls-Fa 3 hours

This course introduces the fundamental concepts of the information technology audit and control function. The main focus of this course is on understanding information controls, the types of controls, and their impact on the organization, and how to manage and audit them. The concepts and techniques used in information technology audits will be presented. The challenge of dealing with best practices, standards, and regulatory requirements governing information and controls is addressed. Prerequisite: ITM-3400 Data Communications and Networking. (odd years) (Fee: \$50).

ITM-4500 System Development-Sp 3 hours

Students hone their skills of project management, analysis, design, database development, web development, end-user training, and documentation, as they work in teams to develop the project that was designed in the Systems Analysis and Design course. Test-driven development is introduced and used throughout the development process. This course is the second course in a two-course sequence that forms the senior capstone experience for IT Management majors in the Application Developer track. Prerequisites: ITM 3500-Web Development; ITM-4400 System Analysis and Design. (even years)

ITM-4900 IT Strategy-Sp

3 hours

This course explores the issues and approaches in managing the information technology function in organizations and how the IT function integrates, supports, and enables various types of organizational capabilities. The course focuses on developing an intellectual framework that will allow leaders of organizations to critically assess existing IT infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategy. Critical analysis of the alignment between IT and organizational strategies is discussed. Open only to seniors in information technology management. Capstone course. Prerequisites: Open only to seniors in ITM who have completed all 1000-3000 level business courses.

Management (MGMT)

MGMT-3500

3 hours

Principles of Organization and Management-Fa, Sp

An examination of the policies, principles, practices, and problems involved in the management of organizations as they are currently being applied in the United States and around the world to meet or exceed customer's expectations.

MGMT-3510 3 hours Entrepreneurship and Small Business Management-Fa

This course will introduce students to business innovation and entrepreneurship in small and large organizations. The basics of envisioning, evaluating, starting, and running a brand new business and/or a new business unit within an existing organization will be explored. (crosslisted with ENTR-3510 Entrepreneurship and Small Business Management) 3 hours

Entrepreneurship and Small Business Strategy-Fa

MGMT-3511

This course will focus on looking for, identifying, and evaluating business opportunities, then matching business models to take advantage of them. Content will include creativity, opportunity recognition, evaluation, cognitive processes of entrepreneurs, environmental scanning, entrepreneurial business models (strategy), and will introduce initial financial elements of opportunity evaluation. Prequisities: MGMT-3510 Entrepreneurship and Small Business Management

MGMT-3512 3 hours Entrepreneurship and Small Business Finance-Fa

This course will focus on the finance, accounting, and tax issues involved in operating a small business, entrepreneurial high growth firm, or family business. Content will include small business and high growth financial issues, managing cash flow, attracting financial resources, accounting issues such as the role of a forward-thinking accountant, setting up accounting systems that serve the firm strategy, and tax planning. It will also include financial elements of opportunity evaluation and exploitation as well. Prerequisite: MGMT-3510 Entrepreneurship and Small Business Management.

MGMT-3520 3 hours

Production and Operations Management-Sp

Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem-solving and decision-making skills to apply in the operations and production areas of the firm. Designed to develop an appreciation for the interaction of operations management with the management systems of organizations and the processes associated with "lean" thinking necessary to create value for the customer. Prerequisites: ACCT-2120 Principles of Accounting II; BUS-2150 Statistics for Business; MGMT-3500 Principles of Organization and Management; or permission of instructor. (Fee: \$50)

MGMT-3530 Human Resources Management-Sp 3 hours

An analysis of the principle functions, processes, and problems involved in the management of personnel policies; selection, training, promotion, compensation, and discharge of personnel; labor turnover, safety, health, and recreation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-3550 Organizational Behavior-Fa 3 hours

A study of the impact of human behavior within and upon the organizational structure. Emphasis is given to behavior as it relates to employment, absenteeism, employee turnover, productivity, human performance, and management. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-3560 Project Management-Fa 3 hours

This course will lay a foundation for an understanding of project management principles. It will examine principles, processes, and tools project managers have developed to effectively manage and lead projects.

MGMT-3570 International Management-Sp 3 hour

Focuses on the principles of management in a global economy. Exporting and foreign direct investment are analyzed from the multinational perspective. Strategy, organizational structure, and control techniques are developed in a world environment. *Prerequisite: MGMT-3500 Principles of Organization and Management.*

MGMT-3580 3 hours

Compensation and Benefits Management-Sp

An introduction to the concepts, methodologies, and application of compensation and benefit programs within human resources. Designed to develop problem-solving and decision-making skills in the area of compensation and benefits. Students will also learn to develop "lean" thinking necessary to create value for stakeholders in organization through this human resources function. *Prerequisites: MGMT-3500 Principles of Organization and Management; MGMT-3530 Human Resources Management; or permission of instructor.* (odd years)

MGMT-4510 Strategic Management–Fa, Sp 3 hours

This capstone course requires the synthesis of the knowledge and skills gained through your previous business courses. Your group will complete a comprehensive situation analysis (SWOT), and then develop eight possible strategies for a publicly traded company–finally selecting one rationalized strategy, using an M&A tactic, and present to the class. Open only to seniors in business administration within 2 semesters of graduation. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. Capstone course. *Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.* (Fee:\$50)

MGMT-4520 Supply Chain Management-Fa 3 hours

Introduces students to key concepts in supply chain design, planning, and operations. Typical content includes the supply chain strategic environment, designing appropriate networks, forecasting demand and supply, planning and managing inventories, sourcing and transporting products, supply chain coordination, and the impact of technology on supply chain management. Course methodology emphasizes application of concepts through case study, plant tours, and presentations. *Prerequisites: BUS-2150 Statistics for Business; MGMT-3520 Production and Operations Management.* (Fee: \$50)

MGMT-4530 Industrial Relations Management-Fa 3 hours

The interplay between market forces and institutional rules that determine the employment relationship. Labor history, the effects of changing public policies, trade unions, and collective bargaining are viewed from various international perspectives. Prerequisites: MGMT-3500 Principles of Organization and Management.

MGMT-4540 Service Operations Management-Fa 3 hours

An introduction to the concepts, methodologies, and applications in service operations. Designed to develop problem-solving and decision-making skills to apply in service firms. Students will also learn to develop "lean" thinking necessary to create value for customers in the service sectors. *Prerequisites ACCT-2120 Principles of Accounting II, BUS-2150 Statistics for Business, MGMT-3500 Principles of Organization and Management.* (Fee: \$25) (odd years)

MGMT-4550 Applied Leadership-Fa, Sp

3 hours

This is an advanced course about managing people and organizations in the 21st century. It is intended for seniors who will soon face the challenge of leadership and influence in the workplace, in business and other disciplines. This course will integrate and apply what students need to meet the leadership challenge. *Prerequisite: MGMT-3500 Principles of Organizational Management; or permission of instructor.*

MGMT-4560 3 hours

Organizational Change and Development-Sp

This course focuses on the theories, concepts, processes, and tools of leading successful organizational change, as changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels as well as building the organization's capacity to both adapt to change and generate innovation. *Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.*

MGMT-4570 Lean Operations Management-Sp 3 hours

This course expands on critical topics in the field of operations management, including the operations management strategy and tools and contemporary topics such as "Lean" techniques, value-stream mapping, and Fundamentals of Six Sigma. *Prerequisite:* MGMT-3520 Production and Operations Management; or MGMT-4540 Service Operations Management; or permission of instructor. (Fee: \$50)

Marketing (MRKT)

MRKT-3410 Topics in Marketing-Fa, Sp, Su

1-3 hours

A variety of topics are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

MRKT-3600 Principles of Marketing-Fa, Sp 3 hou

This course examines the marketing processes of businesses and other types of organizations from an analytical perspective. Special attention is placed on the marketing environment and the needs and behaviors of market segments as key drivers of marketing planning for positioning, product, pricing, distribution, and communication strategies and tactics. *Prerequisite: junior status or permission of instructor.*

MRKT-3610 Sales/Sales Management Systems-Sp 3 hours

Principles employed in the development, administration, and strategy of a sales force. Professional selling from a Christian perspective along with training, managing, compensating, and motivating a sales force. Prerequisites: MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.

MRKT-3630 Marketing Research-Sp

3 hours

This course examines marketing research methods to understand how they generate different types of information relevant to the identification and solution of problems in marketing. Students will complete a research project that will teach them how to formulate marketing problems, design relevant studies, collect and analyze data, draw appropriate conclusions, and make recommendations that lead to sound marketing actions. Prerequisite: BUS-2150 Statistics for Business; MRKT-3600 Principles of Marketing; MRKT-3650 Consumer Behavior.

MRKT-3650 Consumer Behavior-Fa

3 hours

This course examines behavioral concepts and theories from psychology, sociology, anthropology, and economics. Primary focus is on identifying and/or creating consumer behavior models that inform marketing research and produce insights that guide appropriate marketing decision making and strategy development. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3660 Integrated Marketing Communications-Fa 3 hours

This course represents the various ways in which an organization "voices" appropriate messages in response to the needs of the market. This course prepares students to create, implement, and assess effective communication strategies that coordinate traditional communication tools (advertising, sales, public relations, publicity, sales promotion, packaging) with more contemporary tools (electronic and social media) to accomplish specific communications and marketing objectives. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3670 Business-to-Business Marketing-Fa 3 hours

Business-to-Business Marketing represents a much larger sector of economy and a greater number of jobs than consumer marketing. This course prepares students to effectively manage the unique strategic challenges of marketing goods and services to businesses, governments, and institutions. *Prerequisite: MRKT-3600 Principles of Marketing.*

MRKT-3680 Nonprofit Marketing-Sp

3 hours

Designed to acquaint the student with skills, abilities, and attitudes necessary to effectively implement marketing practice in nonprofit organizations. *Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.*

MRKT-3690 Services Marketing-Sp

3 hours

The vast majority of the global economy is based on service organizations that perform tasks on behalf of their customers. As compared to physical goods, services are uniquely challenging to market because the product 1) is largely intangible, 2) varies more in quality, 3) often involves customers in the production process, and 4) cannot be inventoried for future sale. This class is designed to help students prepare to meet those challenges in the marketplace. *Prerequisites: MRKT-3600 Principles of Marketing*

MRKT-4610 Marketing Strategy–Sp 3 hours

This is the culminating course for marketing majors. Its purpose is to build on what has been learned in prior marketing and business coursework in order to form a comprehensive and integrated perspective of strategic marketing management. Students will apply their knowledge in broad-based contexts in order to deepen their ability to develop cohesive and effective strategic and tactical marketing plans. Must be taken at Cedarville University; transfer or transient credit for this course will generally not be accepted. Prerequisites: senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing, MRKT3630 Marketing Research, and MRKT-3650 Consumer Behavior.

MRKT-4620 International Marketing-Fa

3 hours

The challenges of discovering and pursuing opportunities for effectively marketing goods and/or services globally are immense. This course involves an intensive investigation of the environmental factors (economic, financial, cultural, political and legal) that must be thoroughly understood and factored into the development of global marketing strategies. *Prerequisite: MRKT-3600 Principles of Marketing*.

Sport Management (SMGT)

SMGT-1000 Sport Management Practicum-Fa, Sp 1 hour

An on-campus sport management opportunity for students in the sport management major to be involved in a variety of activities compatible with athletic and recreational sporting events and experiences. A minimum of 30 hours is required for each practicum. *Prerequisites: SMGT-1350 Introduction to Sport Management; departmental approval.* Credit/no credit.

SMGT-1350 Introduction to Sport Management-Fa 3 hours

This course is designed to introduce the student to the dynamic nature of sport management and the potential for successful and satisfying career opportunities.

SMGT-2100 Sport in Society-Sp

3 hours

The purpose of this course is to expand the student's understanding of sport by investigating how sport and society interact. The relationship of sport to social variables, institutions, and social issues/problems will be examined. *Prerequisite: SMGT-1350 Introduction to Sport Management.*

SMGT-2500 3 hours

Organizational Behavior in Sport-Fa, Sp

This course will help students define and understand the concepts of management and leadership within sport organizations. There will be a focus upon the various skills, roles, and functions of sport managers. This course places sport organizations in the context of their environment and emphasizes the manager's role in adapting and reacting to changes in the environment. *Prerequisites: SMGT-1350 Introduction to Sport Management.*

SMGT-2910 1 hour

Campus Sport Business Management Practicum—Fa, Sp

This practicum provides the sport business management major with the opportunity to assist faculty members or staff on the Cedarville University campus with their sport business management responsibilities for a required minimum of 40 hours total. *Prerequisite: Sophomore status or permission of the instructor.*

SMGT-2920 1 hour

Sport Business Management Practicum-Fa, Sp

This practicum provides the sport business management major with the opportunity to assist an off-campus sport business professional for a required minimum of 40 total hours. *Prerequisite:* Sophomore status or permission of the instructor.

SMGT-3180 Legal Issues in the Sport Industry-Sp 3 hours

This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. *Prerequisite: Junior status*.

SMGT-3200 Facility Design and Management–Fa 3 hours

This course includes planning and designing areas and facilities in sports and utilization of those facilities for sporting events. Topics will include maintenance, supervision, scheduling, planning, renovation, etc. *Prerequisite: Junior status or permission of the instructor.* (Fee \$35)

SMGT-3300 Event Planning and Production-Sp 3 hours

This course includes the process of planning for and organizing an event in sport. Organizing a plan for an event would include financial planning, risk management, scheduling, facility use, communication, promotions, registration, etc. *Prerequisite: Junior status or permission of the instructor.*

SMGT-3880 1–3 hours

Special Topics in Sport Management-Su

This course will be a means of exposing students to current issues and trends in the sport industry.

1 hour

SMGT-4100 3 hours

Sponsorship and Promotion in the Sport Industry-Fa

This course builds upon basic principles of marketing by applying promotional and sponsorship activities to the sport and fitness industry. Areas of application include professional sport, intercollegiate sport, olympic sport, interscholastic sport, fitness clubs and resorts.. *Prerequisite: Senior status or permission of the instructor.* (Fee: \$65)

SMGT-4200 Financing Sport Operations—Fa

3 hours

This course provides the student with an overview of the financial aspects of the sport industry.

SMGT-4850 1–3 hours

Independent Study in Sport Management-Fa, Sp

Independent study in the area of sport management by students pursuing the sport management major. *Departmental approval is required.*

SMGT-4910 Athletic Administration Practicum-Fa, Sp 1 hour

This practicum provides the sport management major the opportunity to assist a local athletic administrator with their responsibilities for a required minimum of 30 hours total. *Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production.*

SMGT-4990 6–12 hours

Internship in Sport Business Management-Fa, Sp

This internship is an actual work experience in a sport management setting. Students must work a minimum of 40 hours per credit hour. Capstone course. *Departmental approval is required*. Credit/no credit. (Fee: \$35)

Department of Communication Course Descriptions

Broadcasting, Digital Media, and Journalism (BRDM)

BRDM-1110 Introduction to Broadcasting and Digital Media-Fa

3 hours

A survey of electronic media, including history and development, types, audience research, regulations, and globalization.

BRDM-1120 Audio Technical Training-Fa, Sp 3 hours

Students receive instruction and training in the operation of software and hardware used in audio media. The course focuses on gaining knowledge and experience with Pro Tools software and audio hardware including microphones, control surfaces and interfaces, signal processors, audio monitors, etc. Students in the course will use these tools to produce several audio projects. (Fee: \$45)

BRDM-1210 Media Performance—Sp 3 hours

Examines announcing for a variety of applications including: commercial, audio book, interviewing, news, sports, and music radio. The emphasis is on the application of key principles through assignments that focus on use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$45)

BRDM-2110 Video Technical Training-Sp 3 hours

This course provides hands-on training with all video production equipment, including cameras, lighting, sound, and editing. The student will learn basic television skills and technical terms. (Fee: \$45)

BRDM-2130 Writing for Electronic Media–Fa 3 hours

Covers the form and style of writing for radio, television, and interactive media. Work in the course includes news writing, public service announcements, promotional announcements, advertisements, video scripting, and writing for the web. (odd years)

BRDM-2220 Sound Design-Sp

3 hours

This course is designed to prepare the media production student to create sound designs for radio, television, film and other audio media by studying the nature of sound, psychoacoustics, the power of the voice, sound effects, and music and how they can be used in combination with visual image to influence listeners/ viewers. Students will create and execute a variety of sound designs for radio, television, and other audio media. *Prerequisite: BRDM-1120 Audio Technical Training*. (Fee: \$45)

BRDM-2320

3 hours

Preproduction and Planning for Video and Film-Fa, Sp

This course examines the framework for preparation for video and film production in fiction and nonfiction programming. The duties of the producer and director are covered as they relate to scripting, budgets, legalities, scheduling, site surveys and other related preproduction duties for studio and field productions. (Fee \$45)

BRDM-2350 3 hours

Introduction to Graphics for TV and Film-Fa

An introduction to the creation of graphics for television and film. Topics covered include motion graphic principles, network package graphic creation, and training in Adobe After Effects. (Fee: \$45).

BRDM-2606 2 hours

Introduction to Computer Animation–Fa

An introduction to the use of 3D animation software. The course focuses on learning the basics of Autodesk Maya and general principles and workflow for 3D computer graphics in production work. (Fee: \$45)

BRDM-2650 Introduction to Web Analytics and SEO-Fa 1 hour

The course is a survey of methods for gathering and interpreting online tracking and usage data. The survey will focus on the Google Analytics platform but also cover basics of SEO for websites, apps, and online media content.

BRDM-2810 Sophomore Seminar-Fa

The sophomore seminar in Broadcasting, Digital Media, and Journalism is designed to acquaint students with current trends in the electronic media and to aid students in understanding key concepts for building a successful career including networking, professional development, résumé and portfolio development, and strategies for career entry in the electronic media field. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.*

BRDM-3111 3 hours

Survey Research for Electronic Media-Sp

The study of survey research methodologies used in electronic media, including audience analysis; program and screen design testing; station and website ratings. Includes an introduction to academic research in electronic communication using survey methodologies. *Prerequisite: BRDM-1110 Introduction to Broadcasting and Digital Media.* (Fee: \$15)

BRDM-3150 Media Ethics-Fa 3 hours

Development of an applied theistic ethic for media practitioners. Topics for ethical examination include media content, business practices, advertising, journalism, privacy, and intellectual property rights. Crosslisted with JOUR-3150. *Prerequisite: junior or senior status*.

BRDM-3210 Digital Audio Post Production—Fa 3 hours

This course is designed to teach the theories, principles, and practices of multi-track studio production. Students will produce a number of audio projects for radio, television, and film in the Pro Tools HD production environment. *Prerequisite: BRDM-1120 Audio Technical Training*. (Fee: \$45)

BRDM-3211 Digital Music Production

3 hours

This course offers students hands-on experience with modern mixing techniques, specifically utilizing Pro Tools HD hardware and software. Current theory and methods of signal processing utilized in the mix down process are covered. Each student will have the opportunity to track, edit, mix, and master professional musicians. This class is for the serious student of audio who is interested in learning about the music production process. *Prerequisites:* BRDM-1120 Autio Technical Training and BRDM-3210 Digital Audio Post Production. (Fee: \$45).

BRDM-3215 Live Sound-Fa

3 hours

This course will prepare the student for work in live sound for churches and other venues. Through a series of lectures and labs, students will learn how to set up and operate a PA systems. operate mixers/consoles/control surfaces, trouble shoot problems in audio set-up, mix live sound, complete stage set-up, and the selection of microphones, amps, mixers, speakers and monitors. Prerequisite: BRDM-1120 Audio Technical Training. (Fee: \$45)

BRDM-3216 Audio for Video and Film-Sp 3 hours

Audio for video/film will expose the student to the theories and the practical challenges of gathering audio in the field as a part of a video/film project. The course will also focus on working with sound in the studio during post-production and will include areas such as automatic dialogue replacement and Foley sound effects. Students will record and produce all of the sounds for a major film project. Prerequisite: BRDM-1120 Audio Technical Training and BRDM-3210 Digital Audio Post Production. (Fee: \$45).

BRDM-3310 Digital Film Production-Fa

3 hours

Taught from the producer's perspective. Hands-on training dealing with all the variables in making a video's and short films, including preproduction, production, and post-production nonlinear editing platforms. Prerequisite: BRDM-2110 Video Technical Training or approval from the instructor. (Fee: \$45)

BRDM-3330 Screenwriting-Fa

4 hours

In this advanced writing course, students will learn the formal construction involved in writing a professional screenplay, with emphasis on narrative structure, dramatic writing, and strong character development. Prerequisite: ENG-1400 Composition. (Fee: \$45) (even years)

BRDM-3350 Documentary Film-Sp

An overview of the origins, development, and current trends in the production of documentary films. Emphasis is given to the viewing and analysis of selected documentary programs. (Fee: \$45) (even years)

BRDM-3355 VFX and Compositing for TV and Film-Fa 3 hours

This course deals with the creation of computer-generated visual effects and the process for compositing those effects into live action footage. Topics include VFX creation, image matching and manipulation and compositing techniques using industry standard software. Prerequisites: BRDM-2350 Introduction to Graphics for TV and Film. (Fee: \$45)

BRDM-3370 Documentary Film-Style Production-Sp

Further study of the framework for non-fiction film-style production. Emphasis is placed on cinematography, interviewing, paper editing, directing, post-production, and distribution unique to documentary programming. Prerequisite: BRDM-2110 Video Technical Training. (Fee: \$45) (odd years)

BRDM-3390 Editing Theory and Practice-Fa

In this course, students will learn terminology and techniques related to video editing and post-production, including assembly, file organization, and aesthetic approaches to how visual storytelling in film and video extends to the editing process. Prerequisite: BRDM-2110 Video Technical Training(Fee: \$45)

BRDM-3410 Broadcasting and Media Sales-Sp

3 hours

The course focuses on developing an understanding of the theory and practice of the sale of advertising for a variety of electronic media. Students will study and apply client and product research, advertising strategies, sales technique, and presentational methods. Sales executives work with the class to develop the knowledge and skills described above and to help them select and work with a media client to develop an advertising campaign.

BRDM-3420 Media Management-Fa

3 hours

This course is designed to acquaint the student with the concerns facing the management of a media company including legal requirements of the FCC, personnel management, implementation of programming, and station acquisition. **BRDM-3605** 3 hours

Writing and Design for Web and Mobile Media-Sp

The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with JOUR.

BRDM-3611 Web Analytics-Fa

3 hours

The study of methods for gathering and interpreting Web tracking and usage data. The approach taken is a consumercentric strategic analysis called Key Insights Analysis which has as its goal delivery of actionable insights and matrices for website developers. (Fee: \$15)

BRDM-3620 Digital Compression and Streaming-Fa 3 hours

The course deals with the preparation and delivery of digital media files. Topics include digital media file formats, methods for compression of audio and video files and methods of streaming digital media files over the Internet via Web sites. Prerequisite: BRDM-1120 Audio Technical Training; BRDM 2110 Video Technical Training. (Fee: \$45)

BRDM-3630 Principles of Computer Animation-Sp

Application of the principles of traditional cell-based animation to computer animation, as well as the effective use of animation for communication.

BRDM-3650 Networked Audience-Fa

Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. Crosslisted with JOUR. Prerequisite: Junior or senior status. (Fee: \$10)

BRDM-3720 Audio Production Practicum-Fa, Sp 1 hour

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to practice audio skills acquired in earlier courses. The course is repeatable for a total of two hours. Prerequisites: BRDM-1110 Introduction to Broadcasting and Digital Media; BRDM-1120 Audio Technical Training. (Fee: \$45)

BRDM-3731 Video Production Practicum-Fa, Sp 1 hour

Production on a video crew in large auditorium production as assigned by the instructor. The course is repeatable for a total of six hours. (Fee: \$45)

BRDM-3733 Sports Production Practicum-Fa, Sp

Production on a video crew in sports production as assigned by the instructor. The course is repeatable for a total of six hours. (Fee: \$45)

BRDM-3734 Film Practicum-Fa, Sp

1 hours

Production on a digital film crew as assigned by the instructor.

BRDM-3741 Sales and Management Practicum-Fa, Sp 1 hour

The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to observe and practice sales and management skills acquired in earlier courses. The course is repeatable for a total of three hours. *Prerequisites: BRDM-3410 Electronic Media Sales; BRDM-3420 Media Management; junior or senior status; permission of the instructor.*

BRDM-3761 Interactive Media Practicum–Fa, Sp 1 hour

The student will develop an interactive medium product, such as a webpage or as a member of a production team under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisite: BRDM/JOUR-3605 Writing and Design for Web and Mobile Media.* (Fee: \$45)

BRDM-3765 Animation Practicum–Fa 1 hour

The student will develop an animation project individually or with a team, working under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisites: BRDM-3630 Principles of Computer Animation; permission of faculty mentor.* (Fee: \$25)

BRDM-4110 Electronic Media Law and Regulation-Fa 3 hours

A study of the legal protections and requirements placed upon the electronic media. Emphasis is placed upon court decisions that help to define First Amendment freedoms for those in the media, as well as regulations placed upon the electronic media. BRDM-4310 3 hours

Advanced Cinematography and Lighting-Sp

Taught from the director's perspective, each student will lean advanced digital film production techniques including camera movement, lighting techniques, and non-linear editing advanced use of effects and color correction. *Prerequisite: BRDM-2110 Video Technical Training; BRDM-3310 Digital Film Production.* (Fee: \$45)

BRDM-4650 3 hours

Designing Solutions for New Audiences–Sp

Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with JOUR. *Prerequisite: BRDM/JOUR-3650 Networked Audience.*

BRDM-4700 Special Topics in Electronic Media-Fa, Sp 3 hours

Available to advanced students who desire intense study in special areas of electronic media. *Prerequisites: junior or senior status as an broadcasting and digital media major; permission of the faculty mentor.*

BRDM-4710 Independent Study: Digital Media 1–3 hor

Taken to allow the student to study an area beyond what is provided through regular course offerings. The student must make a proposal of what is to be studied for the term when applying to a faculty mentor. The student will then follow a schedule approved by the faculty mentor for studying the topic and submitting a report. Repeatable to a total of 6 credit hours in the field. *Prerequisite: approval of proposal by faculty mentor.*

BRDM-4810 Senior Seminar–Fa, Sp 1 hour

The course is designed to help the student transition from the college to professional world. Students will interact with professionals to network and to focus on developing résumés and portfolios, interviewing skills, and an understanding of business etiquette. Prerequisite: senior status as broadcasting, digital media, and journalism major. (Fee: \$45)

BRDM-4920 Senior Project

3 hours

3-12 hours

The student selects one of two options: 1) a paper reporting on the student's original research that investigated a topic in electronic media or 2) a media production. A proposal detailing the student's plan for the senior project must be submitted and approved by the faculty mentor prior to registration for the course. Capstone course. *Prerequisites: GPA of 3.0 in major courses; senior status; permission of BRDM faculty.* (Fee: \$35)

BRDM-4930 Electronic Media Internship

Students are placed with media companies to gain experience in actual career situations. The work must be done under the supervision of an employee of the company approved by the faculty mentor. Students should discuss this option with their advisors at least one semester prior to the internship. Internship agreements must be signed by the student, job supervisor, and faculty mentor prior to registration for the experience. Internships depend upon availability and approval by the electronic media faculty. Capstone course. *Prerequisites: GPA of 3.0 in major courses; senior status; approval by the electronic media faculty.*

Communication Studies (COM)

COM-1100 Fundamentals of Speech-Fa, Sp

3 hours

Public speaking and strong verbal communication skills are critical components of many careers. Students learn to inform others about ideas, advocate for a position, work in groups and teams, listen and critique messages, and practice conflict resolution. These skills are imperative to prepare students for an increasingly diverse workforce.

COM-1120 Honors Speech-Fa

3 hours

Exposes students to and prepares them for competition in the three general areas of intercollegiate forensic competition: oral interpretation (prose, poetry, dramatic-duo), public speaking (persuasion, informative, communication analysis), and limited preparation events (impromptu and extemporaneous speaking). *Prerequisites: Audition; permission of instructor.*

COM-1150 Communication Seminar-Fa, Sp

1 houi

A foundational seminar to provide students with a background in the discipline of communication and an orientation to the professional standards of the discipline.

COM-1230 Voice for the Performer-Fa

3 hours

See course description for THTR-1230 Voice for the Performer.

COM-2000 Persuasive Theory—Fa

3 hours

Methods of applying contemporary communication theories on attitudes, involvement, and change are studied along with classical positions on the principles and methods of attitude change and

COM-2050 Communication Theory–Fa, Sp 3 hours

Introduction and critical assessment of communication theories that underlie interpersonal, group, organization, public, mass media, and cultural studies.

COM-2140 Intercultural Communication-Fa, Sp 3 hours

Provides the foundations of the way communication functions in intercultural settings with a focus on the way culture affects communication. Students learn to identify cultural differences, understand adaptation processes and learn communication effectiveness in cross-cultural contexts.

COM-2200 3 hours

Communication in Applied Contexts-Fa, Sp

Provides students with an opportunity to develop their speaking skills beyond Fundamentals of Speech, emphasizing the use of technology, professional use of public address, and preparation for upper-level applied and speaking courses. *Prerequisite: COM-1100 Fundamentals of Speech or COM-1120 Honors Speech.*

COM-2220 Quantitative Research-Fa

3 hours

Students select samples, write surveys, conduct interviews, and administer experiments to discover how communication works in both personal and professional settings. Learning formal methods of inquiry encourages critical thinking, problem solving, good writing, and personal effectiveness. Quantitative research trains students to seek explanations, find answers, and test solutions.

COM-2225 Qualitative Research—Sp 3 hours

Students conduct interviews, observe interactions, and analyze documents and discourse to understand the cultural and organizational contexts in which they are a part. Qualitative research produces knowledge that promotes effective communication with unique people in particular situations.

COM-2300 Voices of Diversity-Fa, Sp

3 hours

Examination and critical analysis of the significant contributions and issues related to women, people of color, cultural minority groups, and the differently abled in the development of American cultural history. Cultural, social, and artistic contributions are examined and discussed. Field trips and guest performers/ speakers will be incorporated.

COM-2330 3 hours

Writing for Communication Professions-Fa

This course covers the form and style of writing for internal and external communication, including use of social media and persuasive writing. Coursework includes writing executive summaries, memos, proposals, reports, grants, press releases, and opeds as part of a semester-long project. Students will also learn to manage communication in email, Twitter, and Facebook.

COM-2440 Advanced Forensics—Fa, Sp 1 hour

Advanced training for intercollegiate forensic competition. Focus on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable up to six hours.

COM-2510 Media History-Sp 3 hours

This course offers the historical foundations of mass communication from colonial America to the present. Focuses on the growth of news and entertainment media within a social, political, and economic framework of each era of development. Particular attention is given to the interaction of minority and mainstream media.

COM-2520 Virtual Communication—Fa 3 hours

This course will teach students how to be successful biblical and professional virtual communicators through hands-on practice of successful online communication principles and techniques.

COM-2820 Political Communication—Fa 3 hours

A survey of the theory and practice surrounding the relationship between media and politics. Issues such as the role of media in promoting democracy; media effect theories, political knowledge, and the public's response to news; and the role of public opinion in an open society will be explored. (even years)

COM-3100 Advanced Public Speaking-Sp 3 hours

Emphasizes the creative, logical, and audience-centered thinking needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments. *Prerequisite: COM-2200 Communication in Applied Contexts*.

COM-3150 Gender, Politics, and Communication-Fa 3 hours

Using communication theory and biblical application, this course studies the patterns and the effects of communication upon male and female genders identifying the political struggles that are a part of gender relationships and communication. The women's movement, contemporary masculinity studies, and the Christian church's response to gender issues are surveyed.

COM-3230 Organizational Communication—Sp

The study using communication for organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. The role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context. (Fee: \$10)

COM-3240 Interpersonal Communication—Sp 2 hours

Centers on the nature and function of interpersonal communication as it operates within casual encounters, families, organizations, and institutions. Implications for personal, social, and professional growth will be considered.

COM-3250 Interviewing-Fa, Sp

3 hours

Focuses on the study of fundamental interviewing principles. Instruction and training are offered across a variety of interviewing situations, including informational, employment, and persuasive interviews.

COM-3260 Organizational Negotiation–Fa

3 hours

Focus on communication and the negotiation process in the organizational context, coverage of negotiation theories, elements of the negotiation process, and negotiation formats (e.g., salary negotiations, budget negotiations, collective bargaining, etc.).

COM-3330 Organizational Training–Fa

2 hours

Focuses on trainer skills essential for training the adult employee in an organizational setting. Techniques and learning resources are presented to aid the trainer in assessing training needs. *Prerequisite: COM-3230 Organizational Communication or permission of instructor.*

COM-3350 Event Planning-Sp

3 hours

This course introduces students to event planning processes and techniques. Emphasis is on creating, organizing, planning, processing, marketing, implementing, and evaluating a wide variety of events. Focus includes information and resources applicable to community, professional, private, nonprofit and forprofit events.

COM-3450 Forensics/Individual Events-Fa, Sp

1 hour

Students receive individual coaching for participation in intercollegiate speech competition. Areas of competition include oral interpretation, public speaking, and limited preparation events. *Prerequisite: permission of instructor.*

COM-3451 Debate Practicum-Fa, Sp

1 hour

Students receive individual coaching for participation in intercollegiate debate competition. *Prerequisite: permission of instructor.* Credit/no credit; repeatable up to six times.

COM-3500 Storytelling-Sp

2 hours

3 hours

The history, development, and usage of storytelling is presented in a format where the student participates in developing skills as a teller. Students are assisted in developing their own style and method for presenting stories. Open to all majors.

COM-3550 Advocacy Communication—Fa

This course studies advocacy as it relates to social and political change. Advocacy communication requires unique practices that rely on public speaking skills and analysis of advocacy discourse. Students will think critically about current social, political, and ethical issues and will develop persuasive and strategy skills as they practice how to mobilize the public, influence public opinion, and negotiate policy decisions. These skills are useful to those anticipating careers in politics, consulting, speechwriting, law, sales, nonprofits, and religion.

COM-3650 2 hours

Clinical Methods in Teaching Speech-Fa, Sp

Students seeking certification for teaching speech will gain classroom experience. One credit hour equals 20 classroom hours. Department staff members will supervise all assignments. Credit/no credit.

COM-3710 Narrative and Cultural Literacy—Sp 3 hours

An examination of early New Testament and American cultural narratives helps students examine current communication practices using biblical, critical, and theological perspectives.

COM-3810 Speechwriting for the Professional-Sp 3 hours

This course focuses on the skills necessary to research for and effectively write a variety of public messages. Students will practice using the skills necessary for effective communication in organizational, political, and nonprofit contexts. Theory that enriches the understanding of speech writing will be presented and applied. *Prerequisite: COM-3100 Advanced Public Speaking.*COM-3840 Media Analysis—Fa

3 hours

Overviews the study and application of theories that analyze and critique news, and film media. Theories of media criticism will be presented, along with a Christian view. Students will produce critiques of media using the theories presented and integrating a Christian worldview into their analysis.

COM-4060 Organizational Leadership—Fa, Sp 3 hours

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Students observe and evaluate leaders in a variety of disciplines.

COM-4110 History of Public Address–Fa 3 ho

Classical rhetorical systems and theories are studied from the perspective of the rhetorical critic. The development of rhetoric is traced from the Greek period to the present. Analysis is made of the part rhetoric has played in the development of philosophies and nations.

COM-4120 Contemporary Rhetoric-Sp 3 hours

A survey of rhetorical theory that has developed since WWII. Selected representative, contemporary rhetorical theories will be studied and applied to U.S. political communication. Seeks to integrate the study of political messages and the current political culture. *Prerequisite: COM-4110 History of Public Address or permission of instructor.*

COM-4610 Communication Ethics—Sp 2 hours

Seminar focuses on how to reason biblically about ethical issues. Surveys contemporary Christian ethicists; examines issues of concern to the Christian community; suggests communication dynamics that build Christian social ethics.

COM-4640 Special Topics—Fa, Sp 2–3 hours

Topics of important interest are examined on an as-needed

COM-4710–4760 Independent Study
COM-4710–General Communication–Fa, Sp
COM-4720–Organizational Communication–Fa, Sp1–3 hours
COM-4750–Media–Fa, Sp
1–3 hours

COM-4760–Forensics–Fa, Sp

Taken to secure an in-depth background in one of the areas of communication. Repeatable to a total of eight credit hours in the

field. Prerequisite: permission of instructor. COM-4850 Senior Seminar—Sp 1 hour

A transitional seminar to provide students with the opportunity to culminate their academic program and begin the orientation to the professions of communication. The course will prepare students for employment demands, revise resumes, develop interview skills, and establish networking techniques for success in their communication profession.

COM-4900 3–12 hours

Internship in Communication-Fa, Sp, Su

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability.

COM-4950 Applied Capstone-Fa, Sp

3 hours

This course is the culmination of the major in Communication. It provides an opportunity for students to bring together the academic training and professional skills in a focused application. Students work with an advisor to develop a project culminating their program of study in one of four options selected with approval of the capstone coordinator and the faculty advisor. All capstone projects will be presented in written and/or public forum. Prerequisites: COM-2050 Communication Theory and COM-2220 Quantitative Research or COM-2225 Qualitative Research. (Fee: \$15)

Journalism (JOUR)

JOUR-1000 Multiplatform Journalism I–Fa

3 hours

This intensive writing course prepares students to write news copy for print, online, and broadcast video and radio. Students learn basic journalistic practices and writing formats and will progress from exercises to original reporting.

JOUR-2000 Multiplatform Journalism II-Sp 3 hours

This course builds on the primary journalistic skills and theories learned in JOUR-1000. Students will begin to polish interviewing, writing, and reporting skills for print, video, audio, and social media through original reporting of stories in deadline and non-deadline situations. *Prerequisites: JOUR-1000 Multiplatform Journalism I.* (Fee: \$50)

JOUR-2500 Introduction to Public Relations—Fa 3 hours

This course acquaints students with the foundations of public relations as a profession. The course includes discussion of key individuals and events in its development. It provides an overview of the theoretical aspects of public relations practices and techniques. The media relationship of public relations practitioners to the mass media is examined. Codes of ethics for practitioners are also explored.

JOUR-3150 Media Ethics-Fa

3 hours

This course examines the rights and responsibilities of the journalist in American society. It examines and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Crosslisted with BRDM-3150. *Prerequisite: junior or senior status*.

JOUR-3350 Television News Production-Sp

3 hours

This course teaches broadcast journalism students to produce stories for TV news and understand the components of studio production of TV news programs. *Prerequisite: BRDM-2110 Video Technical Training.* (even years) (Fee: \$50)

JOUR-3420 Editing and Design-Sp 3 hours

This course will teach students the methods to edit news stories for publication. In this course, students will learn the role of the editor in the news process and the editorial skills to prepare news stories for publication. The course will also cover the development of appropriate headlines and methods of designing story layout in ways that are clear and appealing to a target audience. Students will be taught to bring both a detailed and holistic approach to the development of the news story for printed media. Current developments in the field of editing and design will be applied to contemporary news events to facilitate application of the principles of the course. *Prerequisites: JOUR-1000 Multiplatform I and JOUR-2000 Multiplatform II or permission of instructor.* (even years) (Fee: \$50)

Public Relations Principles and Writing-Sp

JOUR-3500 3 hours

This course provides instruction in effective public relations communication both within organizations and to various media outlets. Students develop problem-solving approaches to PR challenges and apply appropriate written, visual, and spoken messages to audiences using different media of communication. Prerequisite: JOUR-2500 Introduction to Public Relations.

JOUR-3550 3 hours

Advanced Public Relations Writing-Sp

Building on the basics of public relations principles and writing, this course provides the opportunity to focus on particular writing techniques employed in specialized public relations contexts. This includes writing for internal publics in the form of reports, proposals, backgrounders, and position papers. In addition, students will learn to write for external publics in print. broadcasting, and online media contexts, developing proficiency in presentational and speech communication, news, feature and advertising copy. Prerequisite: JOUR-3500 Public Relations Principles and Writing.

JOUR-3605 3 hours

Writing and Design for Web and Mobile Media-Sp

The purpose of this course is to introduce students to the special design and writing necessary for emerging new media, including the web, mobile media, and social networking sites and services. Crosslisted with BRDM.

JOUR-3650 Networked Audience-Fa 3 hours

What is happening to the audience for media content and how is that likely to change over the next five years? That is the question that this course seeks to answer. Students will develop a framework for understanding the audience by looking at the intersection of a wide variety of factors that shape the media environment. The students will then project current trends to anticipate where the audience will be in the next five years. Crosslisted as BRDM. (Fee:\$10)

JOUR-3900 Practicum in Journalism-Fa, Sp 1 hour

Development of news stories for transmission to print, broadcasting and online media outlets within the University (Cedars, In the Loop, Resound Radio, Cedars Online) either individually or as a member of a team under the supervision of a faculty mentor. The practicum is organized in a news agency format with a rotating editorial board. Repeatable up to 3 times. Prerequisites: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II.

JOUR-4420 Feature Reporting-Fa 3 hours

Students will study feature storytelling styles with an emphasis on narrative. Freedom will be given to produce stories on platforms that fit career goals. Blogging will also be an important exercise. Prerequisite: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II; or permission of the instructor. (even years) (Fee: \$50)

JOUR-4500 Public Relation Campaigns-Sp 3 hours

Uses case studies to examine the role of public relations in organizational communication campaigns. Incorporates a problemsolving approach that enables students to apply various public relations techniques to real-world situations. Prerequisite: JOUR-3550 Advanced Public Relations Writing.

JOUR-4550 Practicum in Public Relations-Sp

Development of public relations campaigns and products, such as brochures, videos, news releases, press kits, and feature stories either individually or as a member of a team under the supervision of a faculty mentor. Prerequisite: JOUR-3500 Public Relations Principles and Writing; or by permission of instructor.

JOUR-4600 Magazine Writing-Sp

This course covers the techniques of writing in-depth articles for mass circulation and specialized magazines. Students will learn the process of writing and submitting feature articles as well as analysis of markets for freelance magazine articles. Students will prepare and submit professional quality manuscripts for publication. Prerequisite: JOUR-1000 Multiplatform Journalism I; JOUR-2000 Multiplatform Journalism II; or permission of the instructor.

JOUR-4610 Photojournalism-Sp

3 hours

This course focuses on the techniques and aesthetics of reporting the news as a photojournalist. It emphasizes recognition, development and creation of news photographs and the skills of the photo editor. As part of this course, students will gain experience in shooting, developing, printing, and editing the images for a variety of news media. The course will emphasize how public relations and journalism professionals can use photographs for publication in traditional media, websites, company brochures, and digital slide-show presentations. Prerequisites: JOUR-3420 Editing and Design, or by permission of instructor. (Fee: \$50)

JOUR-4620 Data and Investigative Reporting-Sp 3 hours

This course teaches the tools and techniques to use data and other investigative tools and resources to produce in-depth stories. The content will focus on serving the public interest by acting as a watchdog on government, business, education, health, environment, safety, and other organizations. Freedom will be given to produce stories on platforms that fit career goals. Prerequisites: JOUR-1000 Multiplatform Journalism I I; JOUR-2000 Multiplatform Journalism II; or permission of instructor. (odd years) (Fee: \$50)

JOUR-4650 3 hours

Designing Solutions for New Audiences-Sp

Because of the ongoing changes in the communication system, media companies and businesses are in constant reinvention of the ways in which they meet the needs of their audiences by innovations in programming, products and services. In this course students will be presented with a current problem in the use of new and emerging media to connect a client with its audience. Teams will then design a solution to meet the needs of both client and audience. Crosslisted with BRDM. Prerequisite: JOUR/BRDM-3650 Networked Audience.

JOUR-4810 Special Topics in Journalism-Fa 3 hours

Available to advanced students who desire in-depth study of special areas of journalism. Topics of current interest in the field of journalism will be offered to cover in-depth areas of specialization. Topics may include photojournalism, sports journalism, international news, news and religion, news media management, magazine, editing, opinion writing, and business and financial reporting. Prequisities: permission of instructor. (even years) (Fee: \$50)

JOUR-4820 Special Topics in Public Relations-Sp 3 hours

Available to advanced students who desire intense study of special areas of public relations. Topics of current interest in the field of public relations will be offered to cover in-depth areas of specialization. Topics may include crisis communication, agency management, event planning, and international public relations. Prerequisites: JOUR-3550 Advanced Public Relations Writing; or permission of instructor. (even years)

JOUR-4910 Multiplatform Seminar-Sp 3 hours

This senior-level class will tie together the students' reporting and news presentation skills, resulting in a reporting project that will use text, visuals, and audio. The project will align with career goals, putting emphasis on the each student's preferred platform of reporting. Studentw will also study the work of professionals and industry trends. (Fee: \$50)

JOUR-4950 Internship-Fa, Sp, Su

3-12 hour

1 hour

Students are placed with professional organizations to apply their journalism training and gain experience in actual career situations. This should be discussed with an advisor one semester prior to the internship experience. Internship agreements must be signed by the student, the job supervisor, and the faculty mentor prior to the initiation of the internship. Prerequisite: for print major, JOUR-3420 Editing and Design; for broadcasting major, JOUR-3350 Television News Production; for public relations major, JOUR-3550 Advanced Public Relations Writing.

Professional Writing and Information Design (PWID)

PWID-2130 Introduction to Professional Writing-Fa 3 hours

Students will study the technical communication profession. They will learn the skills needed to succeed in the field, professional approaches to solving problems in the field, and potential professional opportunities in technical communication.

PWID-3010 Style and Mechanics for Writers–Fa, Sp, Su 3 hours

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. Crosslisted with ENG 3010 Style and Mechanics for Writers. *Prerequisite: ENG-1400 Composition.*

PWID-3011 Legal and Research Writing-Fa

Students will learn to apply reliable principles to make their writing clear, concise, coherent, and cohesive. In addition, they will learn to write persuasive documents that are required of professionals in the fields of law and public administration. Prerequisite: ENG-1400 Composition. Corequisite: PWID-3010 Style and Mechanics for Writers

PWID-3020 Professional Portfolio Development I-Fa 1 hour

Students will develop a professional portfolio and learn to use it effectively as a tool to obtain an internship.

PWID-3050 User Experience for the Web-Sp 3 hours

Students will learn to conduct formative and summative user research that will help them make critical decisions about content, structure, and layout of online publications, including websites, blogs, and magazines. They will study principles of usability, user experience, and information architecture in order to gain a comprehensive view of how to arrange, structure, and write content for online publications.

PWID-3090 Marketing Communication—Fa 3 hours

Students will learn to create marketing materials for the technical industry, from design to completion. *Prerequisites: PWID-3010 Style and Mechanics for Writers; PWID-3100 Designing Visual Communication.*

PWID-3100 Designing Visual Communication—Fa 3 hours

Students will learn to integrate visual design concepts to enhance communication in various documents and media. Topics will focus on increasing usability of communication products by targeted audiences. *Corequisite: PWID-2000 Production Tools for Technical Communication.*

PWID-3170 2 hours

The Professional Writer in a Corporate Culture–Sp

Students will discuss issues beyond intellectual ability and technical know-how that are crucial to a successful career. They will discover guidelines to assist them in improving their emotional intelligence capabilities.

PWID-3180 Visual Rhetoric-Fa 3 hou

Students will learn to understand the rhetoric of visual language and to adapt visual language to specific audiences, purposes, and contexts — just as they do written texts. As a result, they should be able to respond flexibly to design problems in all professional documents.

PWID-3210 Professional Editing-Sp

3 hours

Students will learn both copyediting and comprehensive editing skills. These skills include editing for grammar, punctuation, syntax, sentence structure, content development, and visual design. Students will learn to edit paper and electronic copy and will also explore editing in both publishing houses and corporate environments.

PWID-3250 Documentation Design-Sp

3 hours

Students will learn to plan, design, and create user documentation through systematic user analysis, task identification, effective writing, and effective visual design.

PWID-4010 Report Writing-Sp

3 hours

Students will learn to design and write effective technical reports and presentations that purposefully convey clear, concise, and accurate information to a targeted audience while using an appropriate level of technicality and supporting data or information.

PWID-4020 Professional Portfolio Development II-Fa 1 hour

Students will maintain a professional portfolio and learn to use it effectively to obtain employment after graduation. (Fee: \$25)

PWID-4050 Content Strategy and Development-Fa 3 hours

Students will learn how to design and manage information on the World Wide Web. The class addresses issues in usability, information architecture, and content strategy. Students will learn design principles and writing issues specific to the digital medium.

PWID-4130 Instructional Design I-Fa

3 hours

Teaches technical communicators how to employ technology and learning theory in developing adult training courses.

PWID-4140 Instructional Design II-Sp

3 hours

This course provides students with the opportunity to delve deeper into the art and science of instructional design by focusing on educational technology in general and e-learning tools, techniques, and practices specifically in use in today's corporate environment. The course also investigates the topics of knowledge management, performance support and human capital management in order to give students a well-rounded introduction to the contemporary practice of non-traditional instructional design. *Prerequisites: PWID-4130 Instructional Design I or permission of instructor.*

PWID-4150 Writing for Publications-Sp 3 hours

Writing for Publications prepares students to manage a publication from conception until it is published. Students will develop an editorial strategy, write content, edit content from other writers, and manage the process until the document is published. Students will also explore how to market the publication. *Prerequisite: Senior status or permission of instructor.*

PWID-4160 Professional Writing Internship—Su 3 hours

Students will participate in a work-study program approved and administered by the department in which advanced Professional Writing and Information Design students receive a variety of job-related experiences in a communication environment. *Prerequisite:* permission of instructor.

PWID-4170 Special Topics-Sp

3 hours

Students will study a selected topic(s) at the 4000-level. The flexibility of this course allows the faculty to meet the everchanging nature of technical communication. Possible topics include project management, professional presentations, research methods, ethics in PWID, or other topics presented by faculty or requested by students. *Prerequisites: PWID-2130 Introduction to Professional Writing; PWID-3010 Style and Mechanics for Writers* Capstone course.

PWID-4230 Independent Study in Technical and Professional

Communication-Fa, Sp, Su

Independent study for junior and senior-level PWID majors with special interests and demonstrated ability.

1-3 hours

School of Education Course Descriptions

Primary (P-5) Education (EDEC)

EDEC-2100

2 hours

Art and Music for Primary (P-5) Education-Fa, Sp

An overview of the use of art and music to enhance the Primary (P-5) classroom. A strong emphasis on practical techniques and projects for personal expression based on an understanding of the importance of art and music at the system, school, classroom, and individual levels. *Prerequisite: EDUC-1000 The Education Profession*. (Fee: \$20)

EDEC-2300 Phonics and the Reading Process-Fa, Sp 4 hours

The study of phonics and the place of phonics in the overall reading program. The course addresses multisensory strategies for reading, spelling, and writing instruction. It provides the scientific definition of dyslexia, its common characteristics standardized by the IDEA, and the most effective research-based methodologies to address the instructional needs of individuals with dyslexia. Special emphasis on literacy and reading readiness. *Prerequisite: EDUC-1000 The Education Profession.*

EDEC-3500 Primary (P-5) Education-Fa, Sp

3 hours

An introductory descriptive overview of current primary (P-5) education, including various approaches, programs, and curricula. Emphasis on the development, implementation, and evaluation of primary programs. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Primary (P-5) Methods I block.* (Fee: \$10) **EDEC-3600 3 hours**

Issues in Primary (P-5) Administration-Fa, Sp

An examination of program issues important to both teachers and administrators. Includes examination of models for leadership and for developing and maintaining personal and community working relationships. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Primary (P-5) Methods I block.

EDEC-3800

4 hours

Teaching Primary (P-5) Language Arts-Fa, Sp

An introduction to the objectives, skills, instructional strategies, teaching aids, resource materials, and assessment techniques for teaching reading and the language arts to the primary (P-5) student. An associated clinical experience provides theory-driven application. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Primary (P-5) Methods I block.* (Fee: \$30)

EDEC-3900 Kindergarten Field Experience–Fa, Sp 1 hour

An observation and participation experience focusing on classroom routines and instruction in a kindergarten or preschool classroom. Designed to give a practical, field-based perspective to all of the courses in the primary (P-5) methods 1 block. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Primary (P-5) Methods I block. (Fee: \$45)

EDEC-3950 Primary (P-5) Field Experience I-Fa, Sp 3 hours

Teacher candidates spend three mornings per week for 14 weeks in a classroom for grades 1-5. The implementation of reading and language arts objectives, skills, strategies of instruction, teaching aids, and resource materials is practiced in a University-supervised setting. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Primary (P-5) Methods I block. (Fee: \$45)

EDEC-3990

1-3 hours

Independent Study in Primary (P-5) Education-Fa, Sp, Su

An investigation of contemporary topics in primary (P-5) education through reading, writing, or creative projects.

EDEC-4000

2 hours

Reading in the Content Areas: Primary (P-5)-Fa, Sp

An introduction to the dimensions, strategies, and programs for learning and teaching the reading process, assessment techniques, and instructional strategies to increase comprehension of the textual material of the various content disciplines taught in the Primary (P-5) grades. Prerequisite: successful completion of the Primary (P-5) Methods I block. Corequisite: other courses in the Primary (P-5) Methods II block. EDEC-4100

3 hours

Teaching Primary (P-5) Mathematics-Fa, Sp

An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics in the elementary grades, based on the Ohio Model and NCTM Standards. An associated clinical experience provides theory-driven application. *Prerequisite: other courses in the Primary (P-5) Methods II block.*

EDEC-4200 3 hours

Teaching Primary (P-5) Science-Fa, Sp

An examination of science curricula for students with particular emphasis on the Ohio Model and the National Science Teaching Standards. Instructional methodologies that emphasize three-dimensional science, an inquiry approach and S.T.E.M. will be modeled and practiced with attention given to a hands-on instruction. Prerequisite: successful completion of the Primary (P-5) Methods I block. Corequisite: other courses in the Primary (P-5) Methods II block. (Fee: \$15)

EDEC-4300 3 hours

Teaching Primary (P-5) Social Studies-Fa, Sp

An examination of social studies curricula for the Primary (P-5) with particular emphasis on the Ohio model, the NCSS Standards, Ohio history, and the integration of social studies with other disciplines. Instructional methodologies that emphasize the teaching of thinking, student interaction, and the use of instructional technologies will be modeled and practiced. Application of skills in the field as required. *Prerequisite:* successful completion of the Primary (P-5) Methods I block. Corequisite: other courses in the Primary (P-5) Methods II block.

EDEC-4450 3 hours

Primary (P-5) Field Experience II-Fa, Sp

Teacher candidates spend 20–25 days in an elementary classroom, grades 1-5, including 17–22 days teaching mathematics, social studies, and science. This field experience provides theory-driven application to instruction with an emphasis on reflective teaching and collegial teamwork. Teacher candidates are formally supervised and evaluated by University supervisors. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Prerequisite: successful completion of the Primary (P-5) Methods I block. Corequisite: other courses in the Primary (P-5) Methods II block. (Fee: \$45)

EDEC-4880 1–3 hours

Topics in Primary (P-5) Education-Fa, Sp, Su

Selected topics in primary (P-5) education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by a P5ED faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

EDEC-4900 12 hours

Student Teaching and Seminar: Primary (P-5)-Fa, Sp

A teaching experience in a primary (P-5) setting under the supervision of the mentor teacher and a university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite: successful completion of the Primary (P-5) Methods II block.* (Fee: \$380)

Middle Childhood Education (EDMC)

EDMC-2800 2 hours

Developmental Issues in Young Adolescents-Su

A study of the physiological, social, emotional, cognitive, and spiritual issues in human development endemic to the transition from preadolescence to adolescence. Emphasis on development research as it applies to the development of educational objectives, learning environments, and teacher characteristics conducive to the needs of younger adolescents.

EDMC-3500 4 hours

Principles of Teaching Middle School-Sp

Teacher candidates learn to develop instruction based on observable learning objectives aligned with curriculum guides. Emphasis will be given to instructional models most appropriate for middle school students, including use of instructional technology. The course examines the developmental periods of later childhood and early adolescence from a psychological and sociological perspective and how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. This course includes the application of grade-appropriate principles of assessment (including value-added). Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block. (Fee:\$20)

EDMC-3550 3 hours

Curriculum and Instruction for Grades 4 and 5-Su

An examination of the curricula of grades 4–5 and instructional strategies that emphasize content mastery and the development of critical inquiry. Particular emphasis placed on the Ohio Academic Content Standards for grades 4–5 in language arts, mathematics, science, and social studies. *Prerequisite: admission to Early Childhood Education Endorsement program. Corequisite: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3970 Middle school clinical (Grades 4–5).*

EDMC-3600 3 hours

Phonics and the Structure of Language-Sp

An introduction to the rationale, skills, instructional and assessment strategies, teaching aids, resource materials, and appropriate technologies for the teaching of phonics. Emphasis given to the source, structure, function, and history of spoken language. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.

Teaching Reading Through Middle Childhood Literature-Sp

In this course students examine major theories and seminal works related to reading instruction for upper elementary and adolescent students. Within the context of multicultural literature and other genres of literature, students are introduced to comprehension strategies, informal assessments, differentiated instruction, the creation of literate environments, and professional teaching and literacy standards. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods I block.*

EDMC-3800 3 hours

Writing Process and Language Arts Methods for Middle Childhood–Fa

An introduction to the instructional strategies and resources for teaching, assessing, and supporting the language arts development at the middle school level based on NCTE, InTASC, and Ohio's learning standards for English/language arts. Teacher candidates will implement ELA strategies, technology, and 21st century skills to meet the needs of all students in a middle school field experience. *Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the M.C. Methods II block.* (Fee:\$55)

EDMC-3950 2 hours

Middle Childhood Field Experience: Teaching Reading—Sp
This experience provides for implementation of instructional strategies for teaching reading in a middle childhood setting.
Teacher candidates are formally supervised and evaluated by mentor teachers and university supervisors based on the OSTP, InTASC, and AMLE standards. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the

EDMC-3970 Middle School Clinical (Grades 4-5)-Su 2 hours

An observation and participation experience in grades 4 or 5. Clinical experience provides for the implementation of the objectives, skills, and strategies of grad 4–5 instruction and classroom management under the supervision of the experienced cooperating teacher and university supervisor. *Prerequisite:* admission to Early Childhood Education Endorsement program. Corequisites: enrollment with EDMC-2800 Development Issues in Young Adolescents and EDMC-3550 Curriculum and Instruction for Grades 4–5.

EDMC-3990 1–3 hours

Independent Study in Middle Childhood Education—Fa, Sp, Su An investigation of contemporary topics in middle childhood

education through reading, writing, or creative projects. **EDMC-4000** 3 hours

Reading and Writing in the Disciplines: Middle Childhood-Fa

M.C. Methods I block. (Fee: \$45)

An introduction to the range of strategies and programs for teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to increase comprehension. The use of trade books and informational books in the content areas across the disciplines taught in the middle childhood grades is emphasized. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

EDMC-4050 2 hours

Responsive Schools for Middle Childhood-Fa

An examination of the developmental periods of later childhood and early adolescence from a psychological and sociological perspective. The course will also examine how school programs can be designed and implemented to deal with the unique aspects of these developmental periods. *Prerequisite: admission into the TEP courses in the M.C. Methods I block.*

EDMC-4100 3 hours

Teaching Mathematics: Middle Childhood-Fa

In this course, teacher candidates will examine major theories, seminal works, and instructional strategies associated with learning-centered teaching practices for middle childhood mathematics. Using a variety of current P–12 curricula and standards from NCTM, InTASC, and AMLE, and Ohio learning standards, teacher candidates will develop and implement lesson plans, a variety of assessments, classroom appropriate technology, critical thinking techniques, and differentiation to meet the needs of learners. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.*

EDMC-4125

3 hours

Topics in Middle Childhood Mathematics-Fa

In this course, teacher-candidates will examine middle childhood mathematical concepts through in-depth problem solving strategies. Teacher-candidates will develop current classroom technology practices, critical thinking and questioning techniques, and relevant conceptual and procedural knowledge tasks in order to advance learning for all learners. *Prerequisite: EDUC-2800 Principles of Mathematics II.*

EDMC-4200 Teaching Science: Middle Childhood-Fa 3 hours

An introduction to the professional knowledge, skills, methods and instructional strategies required for teaching middle school science, based on Ohio Educator Standards, AMLE teacher preparation standards and NSTA science teacher preparation standards within the context of a biblical framework. Emphasis is on the facilitation of learning and innovation skills for middle school students. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.* (Fee: \$95).

EDMC-4300 3 hours

Teaching Social Studies: Middle Childhood-Fa

An introduction to the objectives, skills, and instructional strategies for teaching middle school social studies, based on the NSSA Standards. The course provides a particular emphasis on the Ohio Model and the integration of social studies with other disciplines. *Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.* (Fee: \$95)

EDMC-4440 Middle Childhood Field Experience II-Fa 2 hours

This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite:* successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$45)

EDMC-4880 1–3 hours

Topics in Middle Childhood Education-Fa, Sp, Su

Selected topics in middle childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDMC faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

EDMC-4900 12 hours

Student Teaching and Seminar: Middle Childhood-Fa, Sp

A teaching experience in a middle childhood setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite: successful completion of the M.C. Methods II block.* (Fee: \$380)

Adolescent / Young Adult Education (EDSE)

EDSE-3000
Principles of Teaching: Adolescent and

Young Adult Learners—Fa

Teacher candidates learn to develop student-centered instruction based on observable learning outcomes aligned with curriculum guides, with emphasis on instructional models most appropriate for adolescent to young adult (7–12th grade) students implementing the use of 21st century skills and instructional technology. The course examines, analyzes, and utilizes a variety of teaching strategies, assessments, and classroom management to facilitate differentiated student-centered instruction for all students. Includes an in-school experience. Prerequisite: admission to the Teacher Education Program as an AYA or MASPN candidate. (Fee:\$45)

EDSE-3300 Developmental Reading-Sp

3 hours

4 hours

This course focuses on the reading goals and processes used in teaching English, language arts, and literature by language arts teachers at the secondary level. Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair. (Fee: \$30)

EDSE-3900 Music Education Field Experience-Fa, Sp 2 hours

This supervised experience in a K–12 school prepares the teacher candidate for the student teaching experience by providing an opportunity to practice teaching methods. Candidates will be evaluated and must show potential to be successful in student teaching to receive credit. *Prerequisites: Admission to the Teacher Education Program and completion of or concurrent registration in MUED-3710 Music for Early Childhood; and/or MUED-3720 Music for Adolescent/Young Adults.* (Fee: \$30)

EDSE-3990 1–3 hours

Independent Study in Adolescent and Young Adult Education
-Fa, Sp, Su

An investigation of contemporary topics in adolescent and young adult education through reading, writing, or creative projects.

EDSE-4450 2 hours

Adolescent/Young Adult Field Experience-Fa

An opportunity for the implementation of the objectives, skills, and instructional strategies in a setting appropriate for each discipline area. Teacher candidates teach two—three periods a day for five weeks. Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Adolescent and Young Adult Principles of Teaching block. (Fee: \$45)

EDSE-4880 1–3 hours

Topics in Adolescent and Young Adult Education—Fa, Sp, Su

Selected topics in adolescent and young adult education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSE faculty or student. *Prerequisite: faculty advisor or instructor's permission.*

EDSE-4900 12 hours

Student Teaching and Seminar: Adolescent / Young Adult-Fa, Sp

A teaching experience in an adolescent/young adult setting under the supervision of the mentor teacher and the University supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. (Fee: \$380)

Special Education (EDSP)

EDSP-2100 Exceptionalities and Behavior-Fa, Sp 2 hours

Reviews the historical sequence leading to the mandates in special education. Explores implications of federal law with an emphasis on the definitions and characteristics of exceptionalities and various philosophies regarding the education of students with exceptional learning needs. Strategies of inclusion are discussed. Includes an introduction to nondiscriminatory evaluation and functional assessment of individuals with exceptionalities and the use of assistive technologies for enabling instruction. The course will present a rational and pragmatic approach to general classroom management. Throughout the course, emphasis will be given to the Positive Behavior and Intervention Support (PBIS) framework, establishing rules, preventing behavior problems, and teaching social skills. Students will complete a minimum of 15 hours in a field experience with persons with an exceptional learning need.

EDSP-2400

Language Development and Communication Disorders-Sp

An introduction to speech and language development for teachers. The course incorporates a range of instructional practices, technologies, and curricular materials to address the communication needs of students with disabilities and/or differing cultural and linguistic backgrounds.

EDSP-2500 1 hour

Survey of Intellectual and Developmental Disabilities-Fa, Sp

Survey of the multidisciplinary perspectives, identification, early influences, causation, levels of support, and practices related to the education of individuals with intellectual and developmental disabilites in early childhood. Prequisites: EDSP-2100 Exceptionalities and Behavior; or may be taken concurrently with EDSP-2100 Exceptionalities and Behavior.

EDSP-2700 2 hours

Teaching Children with Mild to Moderate Disabilities-Fa

An overview of mild to moderate disabilities with a focus on instructional strategies and accommodations for students in inclusive settings. Prerequisite: TEP Acceptance, Primary (P-5) Methods I.

EDSP-3100 3 hours

Diagnostics and Intervention in Reading-Fa, Sp

An introduction to the use of formal and informal assessment techniques for identification and remediation of reading difficulties. Teacher candidates learn practical instructional strategies for teaching students with reading problems and apply the techniques by working with elementary students in a school setting. Prerequisite: EDEC-2300 Phonics and the Reading Process. For Primary (P-5) majors. Corequisite: other courses in the Methods I block. (Fee: \$20)

EDSP-3150 3 hours

Intervention and Diagnosis in Reading for Special Educators-Sp

Study and implementation of individual testing and teaching strategies for skill development in reading, analysis of programs and materials, and development of individualized plans for remediation of specific skill deficits. Prerequisites: the Introduction to Teaching block; EDEC-2300 Phonics and the Reading Process. For Special Education majors. Corequisite: other courses in the Methods I block (Fee: \$20)

EDSP-3500 Special Education Law-Fa 1 hour

An overview of special education law with an emphasis on the history of the law and children with disabilities and understanding the implementation and accountability mechanisms of inclusive education.

EDSP-3950

Special Education Field Experience: Primary (P-5)-Fa, Sp

This school-based experience allows teacher candidates to design and teach Language-Arts and Reading lessons to P-5 students with and without mild-moderate needs in an inclusive classroom setting. Teacher candidates apply research-based strategies and develop initial skills related to administering and analyzing assessments, classroom practice and technology/media applications. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Prerequisites: admission to the Teacher Education Program; major in special education. Corequisite: other courses in the Primary (P-5) Methods I block. (Fee: \$45)

EDSP-4100 Adaptive Curriculum and Instruction-Fa 2 hours

An introduction to the curriculum, intervention strategies, instructional materials, and educational technology used with students with mild-moderate special educational needs. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block. **EDSP-4125** 1 hour

Middle School Mathematics Topics for

Special Educators—Fa

A course with an investigative approach to topics such as logic, history of mathematics from underrepresented cultures, and teaching mathematics to diverse cultures. Mathematical modeling, formulating, and solving problems for both mathematical and everyday situations are included. Real-world connections provide opportunities for exploration and communication by written, oral, and technological presentations. Prerequisite: EDUC-2800 Principles of Mathematics II.

EDSP-4150 Career and Occupational Training-Fa 2 hours

A look at the role of occupational training in the special education curriculum, including the techniques used in developing occupational interests and abilities at various age levels. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block. **EDSP-4250** 2 hours

Communication, Collaboration, and Inclusion-Fa, Sp

A presentation of the techniques of collaboration and consultation needed to enhance the teacher candidate's communication with individuals with special needs, parents, educational team members, and other professionals. Also includes strategies for adapting and modifying instruction for students with special needs and an introduction to assistive technology. Prerequisite: admission to the Teacher Education Program and completion of Methods I.

EDSP-4300 2 hours

Behavioral and Instructional Management-Fa

A study of behavior management concepts and techniques for teachers of special education. Prerequisite: open only to degreeseekina students.

EDSP-4400 Assessment in Special Education-Fa 3 hours

Study in the administration and interpretation of formal and informal educational assessment instruments to identify and place students with mild-moderate needs in special education and the development of appropriate education goals and objectives. Prerequisite: admission to the Teacher Education Program. Corequisites: other courses in the Special Education block.

3 hours

EDSP-4450 Special Education Field Experience: Middle Childhood–Fa, Sp

An opportunity to implement the objectives, skills, and instructional strategies for teaching mathematics, science, and social studies to students with mild to moderate needs at the middle childhood level. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Prerequisite: successful completion of the Primary (P-5) Methods I block. Corequisites: other courses in the Primary (P-5) Methods II block. (Fee: \$45)

3 hours

EDSP-4550 3 hours

Special Education Field Experience: Adolescent and Young Adult-Fa

An opportunity to use the skills learned developing and implementing individualized educational plans and behavior intervention strategies for adolescent and young adult students with mild to moderate special educational needs. This course requires a current Ohio FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Special Education block. (Fee: \$30)

EDSP-4880 1–3 hours

Topics in Special Education-Fa, Sp, Su

Selected topics in special education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSP faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

EDSP-4900 12 hours

Student Teaching and Seminar: Special Education

A teaching experience for special education only majors with students who have mild-moderate special educational needs under the supervision of the cooperating teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. *Prerequisite:* successful completion of the Primary (P-5) Methods II and Special Education blocks. (Fee: \$380)

Education (EDUC)

EDUC-1000 The Education Profession-Fa,Sp 2 hours

An introduction to the social and historical context of the teaching profession, current issues, and requirements for teacher licensure. Focus is on 1) Historical context for American education; 2) Cultural diversity overview; 3) Twenty-first century skills; 4) Stages of teacher preparation and development including dispositional requirements; 5) School and curricular models; 6) Foundations of classroom practice; 7) Laws and ethics. Prerequisite: declared major in an Ohio licensure-seeking program. (Fee: \$159)

EDUC-1050 0 hours

Preliminary Student Involvement-Fa, Sp, Su

Teacher candidates arrange a field experience for five consecutive full days in a public or private P-12 school setting where they observe and participate in classroom activities. A follow-up report is required. *Prerequisite: EDUC-1000 The Education Profession or permission of instructor.*

EDUC-1800 Principles of Mathematics I–Fa, Sp 3 hours

The course develops basic proficiencies needed for teaching Ohio's Competency Based Comprehensive Programs for mathematics (NCTM Standards). This course may be waived with an ACT Math subscore of 23 or higher or SAT Quantitative subscore of 521 or higher. *Prerequisite: EDUC-1000 The Education Profession*.

EDUC-2050 Teaching Diverse Learners–Fa, Sp 2 hours

A survey of issues and strategies needed to teach diverse students. The course seeks to develop cultural competencies that accompany various aspects of multicultural education related to racial, ethnic, linguistic, and cultural diversity. Strategies for the practice of culturally responsive teaching will be introduced. As a course assignment, students will log at least 15 hours of interaction with diverse students and complete a reflective journal.

EDUC-2100 e-Learning for Educators-Fa, Sp

Teacher candidates learn to use a wide range of new and emerging electronic learning technologies (e-Learning) for developing and enhancing student-centered classroom and online/distance instruction. The course requires the completion of various projects and assignments that demonstrate their proficiency in addressing the multifaceted demands on a 21st century K–12 educator in an increasingly global, changing, and complex world through blended and online/distance learning contexts. (Fee: \$25)

EDUC-2300 Assessment and Differentiation—Fa, Sp 2 hours A study of assessment and differentiated instruction concepts and procedures in a K–12 school setting including the Ohio Model of Value Added Assessment. *Prerequisites* or corequisite: *EDSP-2100 Exceptionalities and Behavior, or enrollment in the Bible teacher education minor.*

EDUC-2400 Children's Literature—Fa, Sp 3 hours

A survey of the early history, major types, and modern trends of literature for children in preschool through grade 5. The social and personal value of literature is studied along with methods for using trade books for reading instruction. *Prerequisite: EDUC-1000 The Education Profession*.

EDUC-2500 Educational Psychology-Fa, Sp 3 hours

An introduction to the principles of child and adolescent development, learning theories, and the principles and processes that affect teaching and learning. The course focuses on learning theory and the skills necessary to create and maintain an optimal learning environment in a diversity of settings. *Prerequisite or corequisite: EDUC-1000 The Education Profession; or with permission of instructor.*

EDUC-2600 Topics in Children's Literature-Su 3 hours

An overview of current topics and trends in children's literature. May be credited toward the reading/language arts middle school concentration. Offered during Summer School Session III and intermittently by arrangement with instructor. *Prerequisite: EDUC-2400 Children's Literature or permission of department Chair.*EDUC-2800 Principles of Mathematics II–Fa, Sp 3 hours

A course is based on an NCTM standards-based framework and develops mathematical content proficiency required for teaching mathematics in grades PK–9. In addition, it develops new mathematical topics that are connected to real-world situations and other disciplines. *Prerequisite: EDUC-1000 The Education Profession; EDUC-1800 Principles of Mathematics I (or an ACT Math subscore of 23 or higher or SAT Quantitative subscore of 521 or higher).*

EDUC-3100 Philosophical Foundations of Education–Fa, Sp

A study of the institutional development of schooling in the United States. Examines the biblical foundations for education and engages in a critical analysis of foundational educational philosophies and their impact on Christian approaches to education. Examines current and historical philosophical, social, and economic issues and how these affect the principles and practices of American schooling. *Prerequisite: ENG-1400 Composition.*

EDUC-3200 Faith and Learning Alignment–Fa, Sp 1 hour

An introduction into the principles and practices of biblical integration in the K-12 school settings. Course examines the theological and theoretical foundations of biblical integration and prepares the teacher candidate to align curriculum and instructional techniques to their teaching/licensure area. Prerequisite: Admission to the Teacher Education Program. Corequisite: Enrollment in appropriate methods of teaching block for licensure area.

EDUC-3570 Supervised Field Experience 1–3 hou

A 30–90 clock hour supervised placement in an early, middle, and/or adolescent/young adult classroom. Designed to give a transfer teacher candidate, an early childhood education candidate seeking a Reading Endorsement, or a teacher candidate repeating other field experiences the necessary P-12 supervised experience needed to meet program requirements. (Fee: \$30)

EDUC-3990 Independent Study in Education 1–3 hours

An investigation of contemporary topics in education through reading, writing, or creative projects. *Prerequisite: 15 semester hours in education.*

EDUC-4000 3 hours

Reading and Writing in Disciplines: AYA and Multi-Age-Fa

An introduction to the range of strategies for teaching reading within disciplinary content areas related to adolescent and young adult and multi-age Spanish, physical education, health education, and music education licensure programs. This course addresses the reading process, assessment techniques, instructional strategies to improve comprehension, academic language, and Ohio dyslexia standards. This course will be taught in online format. Prerequisite: admission to the Teacher Education Program or senior status and permission of department Chair.

EDUC-4850 Internship in Applied Education 3–12 hours

Juniors and seniors who have been accepted into the Teacher Education Program may, with the approval of the School of Education Dean, engage in an internship that involves the meaningful use of knowledge gained in previous education courses and experiences. A school faculty member will assist with the internship, arrangements, and evaluation of the experience. The school Dean will approve the number of credit hours to be granted for the experience. *Prerequisite: permission of the School of Education Dean.* (Fee: \$80)

EDUC-4880 10 hours

Student Teaching (Nonlicensure) and Seminar-Sp

A teaching experience working with students in a range of age levels under the supervision of the cooperating teacher and University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite: Completion of all TEP requirements except internship.* (Fee: \$80)

EDUC-4900 12 hours

Student Teaching and Seminar: Multi-Age-Fa, Sp

A teaching experience working with students in a range of age levels under the supervision of the mentor teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. Capstone for the Multi-Age Physical Education Major. (Fee: \$380)

EDUC-4910 Special Student Teaching

3 hours

3-10 hours

Occasionally, unusual situations arise that entail special provisions (e.g., summer school student teaching for experienced teachers, repeated experiences, etc.). (Fee: \$100)

EDUC-4950 12 hours

Student Teaching and Seminar in Special Education and Primary (P-5)—Fa. Sp

A full semester teaching experience with significant exposure in both special education and primary (P-5) education settings. The student teacher will work under the supervision of cooperating teachers and University supervisors in each field. Seminars encourage reflection upon the teaching experience and discussion of issues of importance to educators. This course requires a current Ohio BCI and FBI Background Clearance Report to be on file with the School of Education for the duration of the field experience. (Fee: \$380)

School of Engineering and Computer Science Course Descriptions

Computer Science (CS)

CS-1210 C++ Programming-Fa, Sp

2 hours

Introduction to computer programming, software engineering principles, structured program design and implementation, using the C++ programming language; students will become familiar with common commands for managing the file system and constructing programs in the Linux operating system. Two lecture hours and one one-hour laboratory per week. (Fee: \$50)

CS-1220 Object-Oriented Design Using C++-Fa, Sp 3 hours

Further development of student problem solving and programming skills beyond CS-1210 by increased exposure to the C++ language features including pointers, object-oriented language contructs and design principles, memory management mechanisms, exception handling, event-driven programming, and graphical user interfaces (GUI). This course also promotes professional programming practices with emphasis on the careful reading and documenting programs to support the understanding and analysis of source code, program testing and debugging, secure softrware engineering practices, and following established language styles and converntions. Readings and lectures are reinforced with programming demonstrations, exercises, and assignments in both the Linus and Windows environments. Prerequisite: CS-1210 C++ Programming. (Fee: \$50)

CS-2210 Data Structures Using Java-Fa, Sp 3 hours

Introduction to the proper use of data structures for developing efficient software; data structures include stacks, queues, priority queues, hash tables, trees, and graphs. Students will develop skill in object-oriented design and the Java programming language. Design project required. *Prerequisite: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50)

CS-3210 Programming Language Survey-Fa

3 hours

Systematic study of the principles, concepts, and mechanisms of computer programming languages: their syntax, semantics, and pragmatics; the processing and interpretation of computer programs; programming paradigms; and language design. Illustrative examples will be selected and programming exercises will be assigned from a variety of programming language paradigms. *Prerequisite: CS-1220 Object Oriented Design Using C++.* (Fee: \$50)

CS-3220 Web Applications-Sp

3 hours

Introduction to the design and implementation of web-based applications. Technologies such as HTML5, CSS3, Javascript, JQuery, PHP, Java Servlets, XML, and MySQL are explored. Multiple design projects required. *Prerequisite: CS-2210 Data Structures Using Java.* (Fee: \$50)

CS-3310 Operating Systems–Fa, Sp 3 hours

A state-of-the-art survey of operating system principles. Covers fundamental technology and contemporary design issues such as threads, real-time systems, multiprocessor scheduling, distributed systems, and security. Course content is developed through lectures, student research of the relevant literature, presentations, and programming projects using both C++ and Java. *Prerequisite: CS-1220 Object-Oriented Design Using C++.* (Fee: \$50)

CS-3350 Foundations of Computer Security–Fa 3 hours

Introduction to computer security, including basic concepts, security policy, access control, authentication and key control, and cryptography. Students will complete several programming assignments. *Prerequisites: CS-1220 Object-Oriented Design Using C++*. (Fee: \$50).

CS-3410 Algorithms-Fa

3 hours

Introduction to classical algorithms that have broad application in solving computer science problems; topics include analysis of algorithms, advanced data structures, graph algorithms, numerical methods, and NP-completeness. *Prerequisite: CS-2210 Data Structures Using Java; MATH-2520 Discrete Math and Probability Principles for Computer Science; or instructor approval.* (Fee: \$50)

CS-3510 Compiler Theory and Practice—Sp

3 hours

Introduction to the foundational technology of modern compilers, with emphasis on underlying theory and practical techniques for implementing a compiler by applying object-oriented and appropriate data structures. Design project typically developing a compiler is required. *Prerequisite: CS-3410 Algorithms.* (Fee: \$50)

CS-3610 Database Organization and Design-Sp 3 hours

Introduction to the analysis, design, and implementation of relational databases and the Structured Query Language (SQL); topics include data modeling techniques, data model to logical schema conversion techniques, relational algebra, SQL, database file organizations, query evaluation, transaction management, and client-server application architectures. Design project required. Prerequisites: CS-2210 Data Structures Using Java. Corequisite: MATH-2520 Discrete Math and Probability Principles for Computer Science. (Fee: \$50)

CS-3920 Computer Science Internship—Fa, Sp 1–3 hours

An opportunity for a computer science student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in the industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting. No more than one hour of CS-3920 can be used to fulfill program technical elective requirements. *Prerequisites: junior or senior computer science major status; faculty advisor permission.*

CS-3950 Topics in Computer Science—Fa, Sp, Su 1–3 hours

Selected topics in computer science at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses. Topics may be proposed by the computer science faculty or students. *Prerequisite: permission of instructor.*

CS-3980 1–3 hours

Independent Study in Computer Science-Fa, Sp, Su

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. *Prerequisites: junior or senior computer science or engineering major status, and permission of instructor.*

CS-4410 Parallel Computing-Fa

3 hours

Introduction to the exploitation of parallelism to solve computational intensive problems; emphasis is placed on both the message passing (using MPI) and the shared memory paradigms; projects are required using both paradigms. Crosslisted as CS and EGCP. Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor. (Fee: \$50) (even years)

CS-4430 Machine Learning for Intelligent Agents-Sp 3 hours

Introduction to applied machine learning with specific applications in interactive simulated 3D environments. Topics include Supervised Learning, Unsupervised Learning, Reinforcement learning. *Prerequisite/Corequisite: CS-3410 Algorithms.* (Fee: \$50) (odd years)

CS-4710 Computer Graphics-Fa

3 hours

Introduction to three-dimensional computer graphics and computer game content creation and programming. Topics include geometric modeling and common game engine capabilities; techniques for enhancing realism such as local lighting effects, texture, transparency, and physical modeling; and common computations in the rendering pipeline such as model transformations, clipping and culling, shading, rasterization and collision detection. Group design project required. *Prerequisite: MATH-2520 Discrete Math and Probability Principles for Computer Science. Corequisite: CS-3410 Algorithms.* (odd years) (Fee: \$50)

CS-4730 Virtual Reality Applications—Sp

3 hours

Introduction to virtual reality application development. Extensive coverage of hardware and software development required to implement virtual reality. Including topics of visual and audio rendering, tracking, human physiology, and applications of VR. Group design project required. *Prerequisite or corequisite: CS-3410 Algorithms.* (Fee: \$50) (even years)

CS-4810 Software Engineering I-Fa

3 hours

The capstone design experience for computer science majors. Introduction to software engineering principles focusing on requirement development, detailed design, project scheduling and management, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document and a detailed design and begin to implement their project that will be completed in CS-4820. *Prerequisite: CS-3220 Web Applications; CS-3610 Database Organization and Design; CS-3410 Algorithms.* (Fee: \$50)

CS-4820 Software Engineering II-Sp

4 hours

Continuation of CS-4810 Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. *Prerequisite: CS-4810 Software Engineering.* (Fee: \$50)

CS-4950 Advanced Topics in Computer Science 1–3 hours

Selected topics in computer science at the 4000-level that expand the depth of existing 3000- and 4000-level courses or that expose the students to advanced concepts not taught in other courses. *Prerequisite: permission of instructor.*

CS-4980 Independent Study in Computer Science 1-3 hours

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Prerequisites: junior or senior computer science or engineering major status, permission of instructor.

Cyber Operations (CY)

CY-1000 Introduction to Cybersecurity-Fa

3 hours

This course provides a broad overview of key cybersecurity concepts and practices and broadly characterizes the organizational security landscape. It is structured as a series of ordered modules that cover foundational security principles, organization risk management, and adversarial thinking as an organizing narrative for a series of other modules on data security, system security, and internet security. Practical skills such as cyber hygiene and personal device protection for personal security are also emphasized. Students will be taught how to evaluate the social, political, cultural, and economic impact of security in cyberspace from a biblical perspective. (Fee: \$50)

CY-2310 Cyber Forensics-Sp

3 hours

This course provides students with the necessary information and hands-on experience with common software tools and command-line applications to prepare them for responding to cybersecurity incidents within their organization. In this course, students will learn basic processes for incident response and become familiar with the typical processes used in responding to an incident. These processes include creating an incident response plan, acquiring evidence, analyzing the collected evidence, and preparing written reports for both internal organizational use and in a courtroom. Prerequisite: CY-1000 Introduction to Cybersecurity. (Fee: \$50)

CY-3320 Linux Systems Programming-Fa

3 hours A study of the Linux operating system with special emphasis given to developing low-level programming skills in C and assembly language for the purpose of understanding Linux's separation of user- and kernel-space features, system code, and how to develop kernel modules. In addition to the emphasis on low-level programming, students will study various system administration skills, scripting languages, administration and programming tools, and gain a better understanding of capabilities and limitations of the Linux operating systems (O/S). Students will also learn general information on how the Linux O/S is constructed, including its common organization into subsystems and programmer interfaces. Finally, students will practice administering user capabilities, the file system, access controls, kernel capabilities, and other system services (e.g., firewall, printing and networking) by configuring their own Linux distribution. Prerequisites: CS-2210 Data Structures Using Java; CS-3310 Operating Systems. (Fee: \$50)

CY-3420 Cyber Defense-Fa

3 hours

This course covers fundamental topics in data security, system security, network security, human security, organizational security, and societal security. In labs students will apply security principles and best practices that are necessary for organizations to maintain operations in the presence of risks and threats. Focused attention is paid to cryptography as the technical foundation of cybersecurity. Prerequisites: CY-1000 Introduction to Cybersecurity, CS-1220 Object Oriented Design Using C++. (Fee: \$50)

CY-4310 Cyber Operations-Sp

This course covers cyber operations and the best practices for securing a technology infrastructure. Topics include offensive cyber operations, cyber-related legal precedents and regulations, wired and wireless network security, intrusion detection and prevention systems, system hardening, and defense in-depth. This is a hands-on course with a heavy emphasis on virtual machinebased lab exercises. Prerequisites: CS-3350 Foundations of Computer Security; EGCP-4310 Computer networks(Fee: \$50) CY-4330 SoftWare Security-Sp 3 hours

A detailed look at issues involved in providing secure software systems. Students will study principles and practices of software development that result in software that is robust and secure from attack. Students will learn techniques for analyzing software to determine whether it contains weaknesses that are vulnerable to exploitation. Students will also explore reverse engineering of software to understand the design of an existing software component to determine its security and whether it could contain malware. Prerequisites: CY-3320 Linux Systems Programming; CS-3350 Foundations of Computer Security. (Fee: \$50)

CY-4810 Secure Software Engineering I-Fa

3 hours

The capstone experience for Cyber Operations majors. Introduction to secure software engineering principles focusing on requirement development, detailed design, risk analysis, project scheduling and management, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document, and a detailed design. They begin implementation of their project that will be completed in CY-4820 Secure Software Engineering II. Prerequisite: CY-3420 Cyber Defense; corequisite: CS-3410 Algorithms. (crosslisted with CS-4810 Software Engineering I) (Fee: \$50)

CY-4820 Secure Software Engineering II-Sp

4 hours

Continuation of CY-4810 Secure Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. Prerequisite: CY-4810 Secure Software Engineering I. (crosslisted with CS-4820 Software Engineering II)(Fee: \$50)

Civil Engineering (EGCE)

EGCE-1920 Introduction to Civil Engineering-Sp 2 hours

Introduction to the civil engineering profession. Course will cover the breadth of the civil profession and include a survey of major civil engineering sub-disciplines. Professional practice topics including career paths, ethics, professional engagement, teamwork, communication, design processes, and legal aspects of civil engineering practice will be introduced. The integrated lab will provide introduction to civil engineering drawing and will include a class project to introduce concepts of project-based engineering. Prerequisite: EGGN-1110 The Engineering Profession. (Fee:\$100)

EGCE-2320 Principles of Surveying-Fa 2 hours

Surveying is an essential element in civil engineering planning, design, construction, and monitoring processes. Lectures will introduce the skills, knowledge, and roles of surveyors, and will seek to develop understanding of basic surveying principles and basic interpretation of graphical data. Laboratory exercises will enable students to apply presented materials in a physical context, developing basic skill in performing survey work. Prerequisite: EGCE-1920 Intro to Civil Engineering. (Fee:\$100)

4 hours

EGCE-2410 Civil Engineering Materials-Fa

4 hours

Introduction to the behavior of steel, concrete, wood, polymers, and asphalt as they apply to civil engineering and construction applications. Topics will include material response to mechanical loading and environment conditions in order to explain possible modes of failure when materials are placed into service. Integrated lab component provides hands-on experience in the characterization and testing of civil engineering materials. Emphasis will be placed on characterization of materials to internationally recognized standards. Testing techniques and quality control will also be introduced in lectures and developed in laboratory exercises. *Prerequisite: EGCE-1920 Introduction to Civil Engineering.* (Fee: \$100)

EGCE-3110 Geotechnical Engineering-Sp 4 hours

Characteristics and classification of geological materials; physical, mechanical, and hydraulic properties of soil and rock; issues such as seepage, consolidation, stress distribution, and settlement will all undergo analyses. Integrated laboratory work in soil classification and soil mechanics. *Prerequisites: EGCE-2410 Civil Engineering Materials; EGME-2530 Statics and Mechanics of Materials.* (Fee:\$100)

EGCE-3210 Introduction to Hydraulic Engineering-Fa 3 hours

Collection and distribution of water; flow of fluids through orifices and weirs; laminar and turbulent flows in closed conduits and open channels; model analysis using the principles of dimensional analysis; rainfall and runoff. *Prerequisites: EGME-2530 Statics and Mechanics of Materials; MATH-2710 Calculus III; PHYS-2110 General Physics.*

EGCE-3220 Design of Water Distribution Systems–Sp 4 hours

Extension of fundamental hydraulics theory into design practice for commonly encountered problems in civil engineering hydraulic systems and structures. Basic concepts of hydraulics, including unsteady pipelines, open channel flows, loose boundary hydraulics, and coastal hydraulics are reviewed, extended, and applied to a variety of practical systems. *Prerequisite: EGCE-3210 Intro to Hydraulic Engineering.* (Fee:\$100)

EGCE-3410 Construction Engineering—Fa 3 hours

This course focuses on construction engineering issues associated with the implementation of designed civil systems. The aim is to provide the student with an understanding of the range of construction equipment and techniques in common use, as well as the planning and direction of construction works. Addresses projects of various scales, focusing on common factors such as utilization of workers, machines and materials, and requirements for project organization and control. The material covers both construction techniques, construction management, and project documentation. *Corequisite: EGCE-2320 Principles of Surveying* **EGCE-3510 Structural Analysis**—Fa

Structural analysis of statically determinate and indeterminate systems; deflections, energy methods, and force method; column stability. *Prerequisite: EGME-2530 Statics and Mechanics of Materials*.

EGCE-3520 Design of Steel Structures-Sp 4 hours

Introduction to structual design practice in steel. Topics include estimating structural loads, design of individual members, and structural connection design. Course focuses on design practice in accordance with nationally recognized codes for both structural steel design and load estimation. Includes integrated lab component covering structural detailing and use of computer-based design software. Course includes major class project. *Prerequisite: EGCE-3510 Structural Analysis.* (Fee:\$100)

EGCE-3610 Environmental Engineering-Fa

Emphasizes chemical, ecological, and hydrological fundamentals in order to solve environmental engineering problems related to water quality, air pollution, solid and hazardous waste management, sustainability, and risk management. Experiments in water, soil, and air quality and chemistry will be performed. *Prerequisites: CHEM-1050 Chemistry for Engineers; EGCE-2410 Civil Engineering Materials.* (Fee:\$100)

EGCE-3620 Air Pollution Management and Design-Sp 4 hours

Course focuses on developing an understanding of the sources, fates, and effects of various airborne contaminants. There will be an emphasis on the design and analysis of engineering treatment systems and control of these contaminants in various operational scenarios. Includes integrated lab component covering assessment, and measurement of airborne contaminants, mitigation assessment and the use of computer-based design and modeling software. Course includes major class project. Prerequisites: EGCE-3610 Environmental Engineering (Fee:\$100)

EGCE-3710 Transportation Engineering—Sp **3 hours**Transportation systems; transportation planning and future

development; design and analysis of transportation facilities including traffic operations, highway geometry, and pavement.

Prerequisites: EGCE-2410 Civil Engineering Materials; MATH-3110 Probability and Statistics.

EGCE-3910 Civil Engineering Management-Sp 2 hours

This course focuses on engineering economics, project management, human resource management, contracting, and legal considerations related to professional civil engineering practice. *Prerequisites: ECON-2110 Essentials of Economics; EGCE-1920 Introduction to Civil Engineering.*

EGCE-4220 Hydrology-Sp

3 hours

Applications-focused introduction to engineering hydrology and hydrologic design covering a range of important surface and groundwater hydrological processes. Includes statistical analyses in the context of hydrologic problem-solving, components of the hydrologic budget, hydrograph analysis and routing, groundwater hydrology, urban hydrology, and hydrologic modelling. *Prerequisites: EGCE-3210 Intro to Hydraulic Engineering.*

EGCE-4510 Reinforced Concrete Design-Fa 4 hours

Extension of structural design techniques to the design of concrete structures and elements. concrete technology, analysis and design of reinforced concrete beams, slabs, columns, footings, and walls. Different types of reinforced concrete floor systems and the fundamentals of prestressed concrete structures. Structual loadings, including wind and seismic loadings. Includes integrated lab component with design, build and test activities and the use of computer based design software. Course includes major class project. *Prerequisite: EGCE-3520 Design of Steel Structures.* (Fee:\$100)

EGCE-4520 Design of Wood Structures-Sp 3 hours

Extension of structural design theory to cover design of wooden structures. Examination of both ASD and LRFD design criteria and both national and international design codes. Includes structural detailing and computer based structural analysis. *Prerequisities: EGCE-3520 Design of Steel Structures* (Fee:\$100)

EGCE-4610 Design of Water Treatment Systems-Fa 4 hours

Design of systems for the delivery of safe and reliable water supplies and the effective treatment of wastewater. Includes coverage of topics such as water processing, distribution, wastewater collection, wastewater treatment and sludge processing. Integrated lab includes the development of assessment techniques for the evaluation of water quality, and system function. *Prerequisites: BIO-2210 Microbiology EGCE-3220 Design of Water Distribution Systems; EGCE-3610 Environmental Engineering.* (Fee:\$100)

EGCE-4620 3 hours Environmental Management and Policy Development-Sp

Course focuses on developing a comprehensive understanding of existing environmental laws and institutions related to environmental policy. The course includes a historical overview of environmental law and policy, current requirements, and emerging policy issues both within the United States and at broader international levels. The course includes coverage of public trust doctrine, environmental impact assessment, pollution control, water resources, climate change, population, and biodiversity. *Prerequisite: EGCE-3610 Environmental Engineering.*

EGCE-4810 Civil Engineering Senior Design I-Fa 3 hours

This is the senior capstone design project for civil engineers. Student teams work on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work will include writing a proposal and performing background research during a mid-term design review and end-of-semester formal oral presentation. A progress report is also required at semester's end. *Prerequisite: completion of one Level II civil engineering design elective; and EGCE-3110 Geotechnical Engineering.* (Fee:\$100)

EGCE-4820 Civil Engineering Senior Design II-Sp 3 hours

This is a continuation of EGCE-4810 Civil Engineering Senior Design I. Students are required to present an end-or-semester formal oral presentation. A final report is also required at semester's end. *Prerequisite: EGCE-4810 Civil Engineering Senior Design I.* (Fee:\$100).

EGCE-4910 Civil Engineering Practice—Sp 1 hour

Course aimed at providing students with an understanding of professional civil engineering practice in contemporary society. Regular classroom discussions will be supplemented by visiting professional engineers who will share practical insights from their professional experience. Issues will include professional licensure, ongoing professional development, workplace practice, and legal issues. Several case studies of recent engineering projects will be included to illustrate issues. Prerequisite: senior standing and students must be scheduled to graduate prior to the end of calendar year.

EGCE-4920 Intrastucture for Developing Contexts-Sp 3 hours

Course focuses on the creation and implementation of infrastructure development plans for under-developed contexts. Topics include needs identification and assessment, appropriate technology theory, cultural adaptaion, resouce management, regulatory controls and legal issues, and long-term sustainability. Prerequisites: EGCE-3220 Design of Water Distribution Systems; EGCE-3410 Construction Engineering; EGCE-3520 Design of Steel Structures.

Computer Engineering (EGCP)

EGCP-1010 Digital Logic Design–Fa, Sp

Introduction to digital logic design, number systems, Boolean algebra, Karnaugh maps, computer simulation tools, combinational network design, flip flops, counters, state machines, and sequential networks. Circuits are designed in class and are built and evaluated in the laboratory. Two lecture hours and one two-hour laboratory per week. (Fee: \$100)

EGCP-2120 Microcontrollers–Fa 3 hours

Introduction to the fundamentals of microcontrollers and embedded systems, including microcontroller architecture, assembly and C programming, peripheral interfacing, data communications, and the cybersecurity concerns associated with microcontrollers and embedded systems.. *Prerequisite: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming.* (Fee: \$100)

EGCP-3010 Advanced Digital Logic Design-Sp 3 ho

Advanced treatment of digital logical design techniques and practices with emphasis on rapid electronic prototyping and effective use of advanced computer-aided design tools; schematic, textual, and VHDL design entry; arithmetic circuits, advanced finite-state machines, and advanced controller implementations. Three lecture hours per week with periodic integrated laboratory; multiple projects and laboratory experiences including a class design contest usually involving a robot. *Prerequisites: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming; junior status or permission of instructor.* (Fee: \$100)

EGCP-3210 Computer Architecture—Sp

Introduction to computer architecture with an emphasis on hardware, RISC vs. CISC, pipeline and vector processing, I/O, and memory hierarchy including caches. Students design and construct a small microprocessor using a logic simulator and then

3 hours

and memory hierarchy including caches. Students design and construct a small microprocessor using a logic simulator and then write an assembler for their processor. *Prerequisites: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming.*

EGCP-3920 Computer Engineering Internship 1–3 hours

An opportunity for a computer engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGCP-3950 Topics in Computer Engineering-Fa, Sp 1-3 hours

Selected topics in computer engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

EGCP-3980 1–3 hours

Independent Study in Computer Engineering

Opportunity to perform independent study or research in computer engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGCP-3990 1–3 hours

Project Design in Computer Engineering

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.*

EGCP-4110 Digital Signal Processing-Fa 3 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design. Other topics include Z-transforms, Fourier Transforms, discrete-time systems, and finite word-length effects. The implementation of filters in embedded systems is introduced. Design project required. Crosslisted with EGEE. *Prerequisites: EGEE-3110 Linear Systems; CS-1210 C++ Programming.*

EGCP-4210 Advanced Computer Architecture–Fa 3 hours

Advanced study of computer architecture with an emphasis on performance, performance metrics, benchmarks, integer and floating point concepts, data-path and control, super-scalar processing and pipelining, memory hierarchy, I/O and peripherals, vector, array and parallel processors, and multiprocessors. *Prerequisites: EGCP-3210 Computer Architecture.* (Fee: \$100)

3 hours

EGCP-4250 CMOS VLSI Design-Sp

3 hours

Introduction to CMOS VLSI design with emphasis on circuit analysis, modeling, mask layout, simulation, and design verification; both theoretical concepts and CAD tools are used together for circuit design and verification. Three lecture hours per week with integrated laboratory. Prerequisite: EGEE-3210

EGCP-4310 Computer Networks-Fa

3 hours

This course is an introduction to computer networking. The course will present the layered network architecture of the internet and examine the services and functions that each layer performs. The wellknown protocols of each layer will be explored in-depth through written homework, programming assignments, and packet-capture labs (using Wireshark, for example). Important fundamental networking topics will be emphasized such as packet switching, addressing, performance measurement, reliable data transfer, and routing. Additional topics such as peer-to-peer networking, wireless and mobile networking, and the history of the internet will also be addressed. Prerequisites: CS-2210 Data Structures Using Java; Corequisite: CS-3310 Operating Systems. (Fee: \$50)

EGCP-4410 Parallel Computing-Fa

3 hours

Introduction to the exploitation of parallelism to solve computationally intensive problems; explores schemes for achieving parallelism, architectures required for parallel computing, performance analysis, and parallel algorithm design; uses common standards for message passing (e.g., MPI), local clusters and remote supercomputer systems. Crosslisted as CS and EGCP. Prerequisites: CS-3310 Operating Systems. Corequisite: CS-3410 Algorithms; permission of instructor. (Fee: \$50) (even years)

EGCP-4810

4 hours

Computer Engineering Senior Design I-Fa

Design and development of electronic products to meet specific requirements. Introduction to computer system design, power supply design, hardware-software co-design, software engineering, system performance trade-offs, electronic design tools, prototype methods, estimating and managing time and cost constraints, and project management. Student teams prepare a project proposal, design and prototype a microprocessor-based system or sub-system, use computerized design tools, submit weekly progress reports, and conduct design reviews. Three lecture hours and one two-hour laboratory per week. Prerequisite: EGEE-3210 Electronics I, CS-3410 Algorithms, CS-3310 Operating Systems, and Senior status in computer engineering Corequisite: EGCP-4210 Advanced Computer Architecture. (Fee: \$100) **EGCP-4820** 4 hours

Computer Engineering Senior Design II-Sp

Continuation of EGCP-4810 Computer Engineering Senior Design I. Student teams will complete their capstone project, submit weekly progress reports, prepare a formal final report, and make a formal design review presentation. Prerequisite: EGCP-4810 Computer Engineering Senior Design I. (Fee: \$100) **EGCP-4950**

Advanced Topics in Computer Engineering

Selected topics in computer engineering at the 4000-level that expand the depth of existing 3000- and 4000-level courses or expose the students to advanced concepts not taught in other courses. Topics may be proposed by the engineering faculty or students. Prerequisite: instructor's permission.

Electrical Engineering (EGEE)

EGEE-2010 Circuits-Sp

5 hours

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, phasor analysis of RLC circuits, power in AC circuits, introduction to 3-phase circuits, mutual inductance, frequency response, Transforms, Laplace circuit analysis, Fourier Series, and introduction to transfer functions. Computer simulations and bread-board circuits are constructed and evaluated in the laboratory. Four lecture hours and one two-hour laboratory per week. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)

EGEE-2050 Circuits and Instrumentation-Sp

4 hours

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources. Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, operational amplifiers, and introduction to polyphase AC circuits. Circuit applications for transducers such as resistance strain gages, piezoelectric load cells, piezoelectric accelerometers, and thermocouples are emphasized along with measurement uncertainty analysis and statistical methods. Circuits are designed, simulated, constructed, and tested in the laboratory. Three lecture hours and one two-hour laboratory per week. This course does not satisfy the EGEE-2010 Circuits requirement for the Electrical or Computer Engineering majors. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)

EGEE-2110 Engineering Analysis-Sp

3 hours

This course introduces students to mathematical tools used by electrical engineers. Topics include theory and engineering applications of complex variables, linear algebra, and probability and statistics as well as the numerical solution of basic differential equations. Students are introduced to the Matlab computing environment. Prerequisites: CS-1210 C++ Programming; MATH-1720 Calculus II. Corequisites: MATH-2740 Differential Equations. 3 hours

EGEE-3110 Linear Systems-Fa

Introduction to linear time-invariant analysis of continuous and discrete-time systems, using both time and frequency domain methods that include convolution, Fourier Series, Fourier, Laplace, and Z transforms; classical and computer solution methods are utilized. Prerequisite: EGEE-2010 Circuits.

EGEE-3150 Analog Filters-Sp

3 hours

Introduction to theory, design, and implementing passive and active analog filters; basic filter structures, passive network synthesis, operational amplifier limitations, multiple-amplifier filters. and filter realization methods. Prerequisite: EGEE-3110 Linear Systems. (even years)

EGEE-3210 Electronics I-Fa

3 hours

Introduction to semiconductor electronic device theory and applications. Topics include ideal and nonideal operational amplifiers, diodes, field-effect transistors (FETs), and bipolarjunction transistors (BJTs). Two lecture hours and one two-hour laboratory or recitation per week. Prerequisite: EGEE-2010 Circuits. (Fee: \$100)

EGEE-3220 Electronics II-Sp

5 hours

Continuation of EGEE-3210 Electronics I to include differential amplifiers, frequency response of amplifier circuits, multi-stage amplifiers, power amplifiers, feedback circuits, power supplies, filters, digital logic families, and oscillators. Four lecture hours and one two-hour lab per week. Prerequisite: EGEE-3210 Electronics I. (Fee: \$100)

EGEE-3310 Electromagnetics-Sp

3 hours

4 hours

Engineering applications of vector calculus, phasors, and Maxwell's equations to electrostatic, magnetostatic and time varying fields, transmission lines, Smith Chart, propagation of uniform plane waves, and single-stub matching. Laboratory exercises introduce field-plotting, transmission line concepts using wave guides, single stub-tuning, introduction to the network analyzer, polarization, and radiation fields. Two lecture hours and one two-hour laboratory or recitation period per week. *Prerequisites: MATH-2710 Calculus III; EGEE-2010 Circuits.* (Fee: \$100)

EGEE-3330 Communications Theory-Sp

Introduction to analog and digital communications theory. Topics for random processes are introduced to facilitate noise analysis in modulation techniques. Three lecture hours and one two-hour laboratory per week; design project required. *Prerequisite: EGEE-3110 Linear Systems.* (Fee: \$100)

EGEE-3370 3 hours

Probability and Random Processes for Engineers-Sp

Introduction to sample points, sample spaces, probability, random variables, random vectors, statistical averages, linear transformations, random processes, linear system response to stochastic input, spectral analysis with application of the central-limit theorem, and Gaussian processes to engineering problems. *Prerequisite: EGEE-3110 Linear Systems.*

EGEE-3510 Power Electronics–Sp

3 hour

Introduction to the fundamentals of power electronics, characteristics and application of semiconductor switches, motor control, device applications, and power processing design. Design project required. *Prerequisite: EGEE-3210 Electronics I.* (odd years)

EGEE-3530 Electrical Machines—Fa 3 hours

Introduction to the fundamentals of power circuits, the characteristics and analysis of transformers, the four basic types of rotating machine (DC, SM, IM, and VRM), and their control. Two lecture hours and one two-hour laboratory per week. *Prerequisite: EGEE-2010 Circuits; or EGEE-2050 Circuits and Instrumentation.* (Fee: \$100)

EGEE-3920 Electrical Engineering Internship 1–3 hours

An opportunity for an electrical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGEE-3950 Topics in Electrical Engineering-Fa, Sp 1-3 hours

Selected topics in electrical engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

EGEE-3980 1–3 hours

Independent Study in Electrical Engineering

Opportunity to perform independent research or study in electrical engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. *Prerequisites: junior or senior engineering major status and faculty advisor's permission.*

EGEE-3990 1–3 hours

Project Design in Electrical Engineering-Fa, Sp

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.*

EGEE-4110 Digital Signal Processing-Fa

3 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design. Other topics include Z-transforms, Fourier Transforms, discrete-time systems, and finite word-length effects. The implementation of filters in embedded systems is introduced. Design project required. Crosslisted with EGCP. *Prerequisites: EGEE-3110 Linear Systems; CS-1210 C++ Programming.*

EGEE-4120 Digital Image Processing-Sp

Introduction to digital image processing. Topics include linear filtering in the spatial and frequency domains, morphology, image segmentation, wavelets, image compression, and pattern recognition. *Prerequisites: EGEE-3110 Linear Systems*. (even years)

EGEE-4310 RF Circut Design-Fa

3 hours

3 hours

Introduction to the characteristics of noise and nonlinearity in radio-frequency (RF) circuit, scattering parameters and two-port network model, impedance matching techniques, and the radio transmitter and receiver architecture. Topics of designing the circuit of low noise amplifier, mixers, oscillators, RF filters, and power amplifier will be covered. Student will learn to use the state-of-the-art CAD tool and vector network analyzer. *Prerequisites: EGEE-3220 Electronics II, EGEE-3330 Communications Theory.* (Fee: \$100)

EGEE-4330 3 hours

Advanced Communications and Networks-Fa

Analysis of the performance of analog and digital communication systems and networks in the presence of noise, M-ary signals, signal space concepts, orthogonal signals, and introduction to communication networks. *Prerequisite: EGEE-3330 Communications Theory. Corequisite: EGEE-3370 Probability and Random Processes for Engineers or instructor's permission.*

EGEE-4410 Feedback Control Systems-Fa 4 hours

Introduction to the analysis and design of analog feedback control systems with emphasis on modeling, transfer functions, root locus, frequency response, Bodé plots, Nyquist Criterion, stability, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, and performance indices. Three lecture hours and one two-hour laboratory or recitation per week. Design project required. *Prerequisite: EGEE-3110 Linear Systems.* (Fee: \$100)

EGEE-4450 Digital Control Systems-Sp 3 hours

Introduction to analysis and design of discrete-time sampleddata control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. *Prerequisite: EGEE-*4410 Feedback Control Systems.

EGEE-4510 Power Systems-Sp

3 hours

Principles of electrical power generation, transmission, and distribution, three-phase power circuits, power system analysis, load flow, symmetrical components, fault currents, system protection, and stability. *Corequisite: EGEE-3310 Electromagnetics.* (Fee: \$50) (even years)

EGEE-4610 Medical Imaging-Sp

3 hours

Introduction to the physics, phenomenology, and engineering aspects of major medical imaging modalities: photon radiation, radiography, computed tomography, ultrasound, and magnetic resonance imaging. Matlab will be used to process imagery. *Prerequisite: EGEE-3110 Linear Systems.* (odd years)

EGEE-4810

Electrical Engineering Senior Design I-Fa

Design and development of electronic products to meet specific requirements using the top-down design method. Introduction to project management, reliability, probability and statistics with engineering applications, serial communication protocols, product cost and safety, electronic design tools, prototype methods, noise, and circuit-board layout. Student teams prepare a project proposal, design and prototype electronic systems using modern technologies and tools, and conduct design reviews both written and oral. Three lectures and one two-hour lab per week. *Prerequisites: EGEE-3220 Electronics II; EGCP-2120 Microcontrollers; EGEE-3110 Linear Systems; senior status in electrical engineering.* (Fee: \$100)

EGEE-4820 3 hours

Electrical Engineering Senior Design II-Sp

Continuation of EGEE-4810 implementing the top-down design method. Students design, build, and test a working electronic product to meet specific requirements within budget. Engineering time, team management costs, and component costs are incorporated into the total cost and grade for the final product. Formal design reports and presentations required. Two three-hour laboratories per week. *Prerequisite: EGEE-4810 Electrical Engineering Senior Design I.* (Fee: \$100)

EGEE-4950 1–3 hours

Advanced Topics in Electrical Engineering-Sp

Selected topics in electrical engineering at the 4000-level that expand the depth of existing 3000- and 4000-level courses or expose the students to advanced concepts not taught in other courses; topics may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

General Engineering (EGGN)

EGGN-1110 The Engineering Profession-Fa

Introduction to the basic concepts and skills necessary to function effectively as a Christian engineer; ethical and moral issues in engineering practice and engineering computer applications. Term project introduces Christian heritage in science and engineering; students participate in group activities and design projects. (Fee: \$50)

EGGN-1960 Competition Project—Sp 0 hours

Engineering freshmen on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-2960 Competition Project—Sp 0 h

Engineering sophomores on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-2980 Research Project I–Fa, Sp, Su 0 hours

Engineering and computer science majors will undertake a research project under the direction of an engineering and computer science faculty mentor. Students participating on a school reseach project may use this course to provide on their transcript a record of their participation on a research project.

EGGN-3110 Professional Ethics-Sp 3 hours

Introduction to the theories of morality and philosophical issues of determining what is true and what is good. Applications are made to professional conduct, engineer-client relations, and product liability. Legal problems and the engineering code of ethics are discussed from a biblical perspective.

EGGN-3510 Systems Optimization-Fa

4 hours

1 hour

3 hours

The course covers the theory and procedures for optimizing multi-variable, nonlinear, constrained problems with application to system design and optimization. Topics include the formulation of the Karush-Kuhn-Tucker (KKT) optimality conditions, numerical algorithms for solving different classes of problems, linear programming, gradient algorithms, and special topics applicable to senior design projects. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.*

EGGN-3610 Biomedical Engineering Systems-Sp 3 hours

Introduction to the field of biomedical engineering and the application of engineering to the field of medicine; fundamental aspects of measuring and modeling physiological systems, biomedical device design, tissue engineering, bioelectric phenomena, biosensors, physiological modeling, biomedical imaging, and biomaterials. Team taught by ME and EE professors. Prerequisites: Engineering major with junior standing; BIO-1110 Introduction to Biology or GBIO-1000 Principles of Biology. (even years)

EGGN-3710 2 hours

Biomedical Engineering Research-Fa, Sp, Su

Student will undertake an original research project under the direction of a departmental faculty mentor, approved mentor within a summer research program, or within an approved academic internship experience. Submission and approval of a research proposal must precede registration. *Prerequisites: major in engineering; minor in biomedical engineering; junior status; permission of advisor, and approval of research topic.* (Fee: \$150)

EGGN-3910 Co-op I 0 hours

First term for an engineering or computer science student to work in industry for one semester. A final report is required. Students completing a co-op work assignment and registered for this course are granted full-time student status. *Prerequisite: junior status in engineering or computer science and enrollment in the co-op program.* (Fee \$75).

EGGN-3911 Co-op IA 0 ho

First half of the first term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: junior status in engineering or computer science and enrollment in the co-op program. (Fee \$40).

EGGN-3912 Co-op IB 0 hours

Second half of the first term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3911 Co-op IA*. (Fee \$40).

EGGN-3920 Co-op II 0 hours

Second term for an engineering or computer science student to work in industry for one semester. A final report is required. *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB.* (Fee \$75).

EGGN-3921 Co-op IIA 0 hours

First half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status *Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB*. (Fee \$40).

EGGN-3922 Co-op IIB 0 hours

Second half of the second term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3921 Co-op IIA. (Fee: \$40).*

EGGN-3930 Co-op III

0 hours

Third term for an engineering or computer science student to work in industry for one semester. A final report is required. *Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.* (Fee: \$75). May be repeated.

EGGN-3931 Co-op IIIA

0 hour

First half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB.* (Fee \$40). May be repeated.

EGGN-3932 Co-op IIIB

0 hours

Second half of the third term for an engineering or computer science student to work in industry part time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. *Prerequisite: EGGN-3931 Co-op IIIA.* (Fee \$40). May be repeated.

EGGN-3960 Competition Project-Sp

0 hours

Engineering juniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-4010 Senior Seminar-Fa

0 hours

Required weekly meeting of senior engineering and computer science majors to discuss the transition into the professional work environment. *Prerequisite: senior status in engineering or computer science.* (Fee: \$35)

EGGN-4960 Competition Project-Sp

0 hours

Engineering seniors on a school of engineering intercollegiate design competition may use this course to provide on their transcript a record of their participation throughout the year. The name of the competition will be designated.

EGGN-4980 Research Project II-Fa, Sp, Su

0 hours

Engineering and computer science majors will undertake advanced levels of research under the direction of an engineering and computer science faculty mentor. Students participating on a school research project may use this course to provide on their transcript a record of their participation on a research project. *Prerequisite: EGGN-2980 Research Project I.*

Mechanical Engineering (EGME)

EGME-1810 Engineering Graphics-Fa

1 hour

Introduction to basic techniques of sketching, drawing, dimensioning, multiple views, sectioning, multi-view projections, and pictorial views. Introduction to commercial software for three-dimensional solid modeling and preparing engineering drawings. (Fee: \$25)

EGME-2050 Computational Methods-Sp

4 hours

Introduction to computer programming and the numerical methods for solving roots of equations, simultaneous linear algebraic equations, ordinary differential equations, integration, introduction to finite-difference approximations, and least-squares curve fits. *Pre- or Corequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.*

EGME-2410 Properties of Engineering Materials-Fa 4 hours

Introduction to the properties of metallic, ceramic, polymeric, and composite materials; plastic deformation, strengthening, fracture, fatigue, corrosion, diffusion, equilibrium and nonequilibrium processes, phase diagrams, electrical and magnetic properties, and application to materials selection. Three lecture hours and one two-hour laboratory per week. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.* (Fee: \$100)

EGME-2430

Contemporary Manufacturing Processes-Fa

Contemporary processing techniques of materials including machining, casting, forming, hot and cold working; conventional, NC, and CNC machining as well as 3D printing; inspection techniques, quality control, and production methods. *Prerequisites: EGME-2410 Properties of Engineering Materials.* (Fee: \$55)

EGME-2510 Statics-Fa

3 hours

3 hours

Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two-and three-dimensional equilibrium, centroids, moment of inertia, friction, trusses, frames, and machines. Design project required. *Prerequisites: EGME-1810 Engineering Graphics; PHYS-2110 General Physics I; MATH-1720 Analytical Geometry and Calculus II.* (Fee: \$10)

EGME-2530 Statics and Mechanics of Materials—Fa 5 hours

Introduction to analyzing forces in isolated and connected rigid-body systems; vector analysis, forces, moments, resultants, two-and three-dimensional equilibrium, centroids, distributed loading, moment of inertia, friction, trusses, frames, and machines. Introduction to the theoretical and experimental analysis of deformable bodies subject to applied loads; normal and shear stress and strain, strain energy, torsion, stresses in beams, deflection of beams, combined stress, stress transformation, failure theories, and buckling of columns. Design project required. Prerequisites: EGME-1810 Engineering Graphics or EGCE-1920 Introduction to Civil Engineering; PHYS-2110 General Physics I; MATH-1720 Calculus II. (Fee: \$25)

EGME-2570 Statics and Dynamics-Fa

Free-body diagrams, vectors, resultant forces, two- and three-force members, friction, simple machines, center of gravity, and moments of inertia. Kinematics and equations of motion of a particle for rectilinear and cervilinear motion. Planar kinematics of rigid bodies. Kinetics for planar motion of rigid bodies, including equations of motion and principles of energy and momentum. *Prerequisites: EGME-1810 Engineering Graphics; MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$10)

EGME-2630 Dynamics-Sp

3 hours

3 hours

Introduction to kinematic and kinetic analysis of particles, systems of particles, and rigid bodies; position, velocity, acceleration, non-rotating and rotating frames of reference, Newton's laws, work, energy, impulse, momentum, conservative and non-conservative systems, and vibration of single-degree-offreedom systems. Design project required. Prerequisite: EGME-2510 Statics or EGME-2530 Statics and Mechanics of Materials. Pre- or Corequisite: MATH-2740 Differential Equations. (Fee: \$10) EGME-3010

Mechanical Engineering Laboratory I–Fa

Experiments using the wind tunnel, engine test cell, testing machines in the mechanics laboratory, vibrations laboratory, fluids laboratory, refrigeration laboratory, and heat transfer laboratory are conducted. Students measure mechanical phenomena such as acceleration, force, pressure, temperature, strain, fluid flow, viscosity, and heat transfer using transducers, instrumentation, and PC-based data acquisition. Students design some of the experiments. Two 2-hour laboratories per week. *Prerequisites: EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation. Corequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.* (Fee: \$100)

EGME-3020 2 hours

Mechanical Engineering Laboratory II-Sp

Continuation of EGME-3010. Two two-hour laboratories per week. Prerequisite: EGME-3010 Mechanical Engineering Laboratory I. Corequisite: EGME-3150 Heat Transfer. (Fee: \$100)

EGME-3050

3 hours

Introduction to Finite Element Analysis-Sp

Introduction to basic components of the finite element method including element selection, shape functions, strain-displacement and stress-strain relations, formulation of the stiffness matrix for 1-D, 2-D, and 3-D elements, linear strain and isoparametric formulations, application of boundary conditions, and interpretation of results; application to 2-D and 3-D problems and experience using a commercial code. *Prerequisites: EGME-2050* Computational Methods; EGME-2530 Statics and Mechanics of Materials. (Fee: \$25)

EGME-3110 Thermodynamics-Fa

5 hours

Introduction to engineering thermodynamics, properties of pure substances, work, heat, first and second laws of thermodynamics, energy, enthalpy, and entropy. Specific application to power, refrigeration cycles, and combustion processes. Prerequisites: CHEM-1050 Chemistry for Engineers; MATH-2710 Calculus III. EGME-3130 Internal Combustion Engines-Sp 3 hours

Introduction to internal combustion engines, fuel-air cycles engine simulation, emissions, engine performance and alternative fuels. Prerequisites: EGME-2630 Dynamics; EGME-3110 Thermodynamics.

EGME-3150 Heat Transfer-Sp

3 hours

Introduction to conduction, convection, and radiation heat transfer in one and two dimensions; free and forced convection, analytical and computational techniques applied to Fourier's Law of conduction, Newton's Law of cooling, and Stefan-Boltzman's Law of thermal radiation. A heat exchanger design project is required. Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. Corequisite: EGME-2050 Computational Methods.

EGME-3170 Thermal Systems-Sp

Introduction to engineering thermodynamics, properties of pure substances, work, heat, enthalpy, and first law of thermodynamics. Introduction to conduction and convection modes of heat transfer. Prerequisites: CHEM-1050 Chemistry for Engineers; MATH-2740 Differential Equations.

EGME-3210 Fluid Mechanics-Fa

Introduction to fluid properties, fluid statics, and the concepts, definitions, and basic equations for subsonic fluid dynamics; Navier-Stokes equation, viscous and invisid fluid flows, potential flow analysis, boundary layers, laminar and turbulent flows, analytical and computational solutions, vector fields, and finiteintegral-control-volume method. Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.

EGME-3430 Principles of Physical Metallurgy-Sp

Introduction to the physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. Prerequisite: EGME-2410 Properties of Engineering Materials.

EGME-3450 Plastic and Composite Materials-Sp 2 hours

Introduction to the properties and processing of plastics, resins, and adhesives; rheology, creep-deformation history, and injection molding. Fiber-reinforced, carbon-carbon, and metal-matrix composites are analyzed for strength, anisotropy, and applicability. Prerequisite: EGME-2410 Properties of Engineering Materials. 3 hours

Kinematics and Design of Machines-Sp

EGME-3610

Introduction to the analysis and synthesis of motion in planar mechanisms and linkages; velocity and acceleration analysis, cam design, gears, simple and compound gear trains, computer solution and simulation. Design project required. Prerequisite: EGME-2630 Dynamics. (Fee: \$40)

EGME-3850 Mechanical Design-Sp

3 hours

Further development of load determination, stress, strain, deflection and failure theories; integration of an iterative problem solver in the design process; and analysis of fatigue failure. Introduction to the design of mechanical components including shafts, keys, couplings, bearings, gears, springs, and fasteners. Prerequisite: EGME-2410 Properties of Engineering Materials. Corequisites: EGME-3020 Mechanical Engineering Laboratory II; EGME-3610 Kinematics and Design of Machines. (Fee: \$25)

EGME-3920 Mechanical Engineering Internship 1–3 hours

An opportunity for a mechanical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGME-3950 1-3 hours

Topics in Mechanical Engineering-Fa, Sp

Selected topics in mechanical engineering at the 3000-level that will compliment or extend present 2000- or 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. Prerequisite: instructor's permission.

EGME-3980 1-3 hours

Independent Study in Mechanical Engineering

Opportunity to perform independent study or research in the various branches of engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of hours of independent study. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGME-3990 1-3 hours

Project Design in Mechanical Engineering

An elective course for students to get academic credit for extracurricular design work in mechanical engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. Prerequisite: instructor's permission.

EGME-4050 2 hours

Finite Difference Methods In Engineering-Fa

Finite-difference approximations for derivatives and differential equations applied to solve engineering problems; consistency, stability, truncation error, and introduction to grid generation. Prerequisites: EGME-2050 Computational Methods; MATH-2710 Calculus III. (even years)

EGME-4060 2 hours

Computational Fluid Dynamics-Sp

Introduction to computational fluid dynamics for solving 2-D and 3-D engineering problems. Formulations of the Navier-Stokes equations will be examined. The basis of the numerical methods in advanced CFD commercial codes will be studied for understanding how to intelligently use engineering software to solve problems. Topics include: formulation of new problems, generating CAD grids, identifying and writing appropriate boundary/initial conditions, selecting solution techniques and turbulence models available in the code, and running and interpreting the validity of the results. Prerequisites: EGME-3210 Fluid Mechanics; EGME 4050 Finite Difference Fluid Methods in Engineering. (even years)

EGME-4160 Radiation and Solar Energy-Fa

2 hours

Introduction to the fundamentals of radiation heat transfer including shape factors, wave-length dependence, and material properties. Applications to solar energy engineering and design problems. *Prerequisite: EGME-3150 Heat Transfer.*

EGME-4210 Advanced Fluid Mechanics—Fa 2 ho

Extend contents covered in the core fluid mechanics course. Topics include Kelvin's theorem, advanced potential flow, wing theory, Kutta-Joukowski theorem, panel method, singularity element methods, laminar and turbulent boundary layers. *Prerequisite: EGME-3210 Fluid Mechanics.* (odd years)

EGME-4250 Propulsion-Fa

2 hours

Introduction to the principles of thrust production, compressible flow of gases, thermodynamics of jet propulsion systems, and parametric performance analysis of jet engines. *Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.* (odd years)

EGME-4270 Compressible Fluid Flow-Sp 2 hours

Introduction to the compressible flow of gases in engineering systems; isentropic flow in variable-area passages, shock and expansion waves; and flow with wall friction and heat transfer. *Prerequisites: EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.*

EGME-4410 3 hours

Introduction to Fracture Mechanics-Sp

Introduction to failure modes caused by static and dynamic loading, brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure, stress corrosion cracking, and strain hardening mechanisms. *Prerequisite: EGME-2410 Properties of Engineering Materials*.

EGME-4530 Advanced Mechanics of Materials—Fa 3 hours

Advanced treatment of stress and strain including coordinate transformations, the eigenvalue problem, Mohr's circle and linear constitutive equations. Failure theories and energy methods, including Castigliano's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.* (odd years)

EGME-4550 Continuum Mechanics-Fa

3 hours

Continuum Mechanics is a discipline of physics that deals with both solid and fluid continuous matter. This course establishes the fundamental mechanical and kinematic equations that are valid for all continuous media using the laws of physics including the conservation of mass, momentum and energy and the concepts of stress and kinematics of deformation. Constitutive equations which describe the behavior of specific idealized materials (e.g. perfectly elastic solid, viscous fluid) are also developed. Topics include: continuum assumptions, essential mathematics, stress principles, kinematics of deformation and motion, balance laws and constitutive theory. Prerequisites: EGME-2410 Properties of Engineering Materials; PHYS-2120 General Physics II; MATH-Differential Equations. (even years)

EGME-4560 Biomechanics and Biomaterials-Sp 3 hours

Introduction to biomechanics of the human body, reactions of biological tissue and synthetic materials to load, and the biomechanics of biomaterials. Advanced mechanical analysis of rigid and deformable bodies and fluid mechanics applied to bone, muscle, connective tissue and blood. This course will provide foundational knowledge to the engineering student for occupations in medical device manufacturing, health and sport sciences industries, and advanced fields of study. *Prerequisites: EGME-2410 Properties of Engineering Materials, PHYS-2120 General Physics II and MATH-2740 Differential Equations.* (odd years)

EGME-4610 Dynamics of Machines-Fa

3 hours

Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. *Prerequisite: EGME-3610 Kinematics and Design of Machines.*

EGME-4660 Principles of Automatic Controls—Fa 3 hours

Introduction to theoretical and experimental analysis of classical analog feedback control systems with emphasis on modeling, transfer function formulation, frequency response, root locus, Bodé plots, stability, and compensator design. Three lecture hours and one two-hour laboratory or recitation per week; design project required. *Prerequisite: EGEE-2050 Circuits and Instrumentation.* (Fee: \$100)

EGME-4710 Vibrations-Sp

3 hours

Free and forced vibrations of mechanical systems having lumped mass and elasticity, single and multiple degree-of-freedom systems, matrix formulation, eigenvalues and eigenvectors, normal mode theory, Laplace Transform, dissipative systems, introduction to random, continuous, nonlinear vibrations, and engineering applications. *Prerequisite: EGME-2630 Dynamics*. (Fee: \$15)

EGME-4720 Vibrations Lab-Sp

1 hour

Laboratory experiments to demonstrate and support EGME-4710 Vibrations; function and calibration of instrumentation and motion detection transducers, measuring the frequency response and impulse response function, electrodynamic shakers, instrumentation, Fast Fourier Transform, spectral analysis, and experience using a commercial FFT analyzer. One two-hour laboratory per week. *Pre- or Corequisite: EGME-4710 Vibrations.* (Fee: \$100)

EGME-4750 3 hours

Random Vibrations and Signature Analysis

Introduction to vibration analysis of discrete and continuous systems to random excitation, harmonic vibration, transient response, convolution integral, Laplace and Fourier Transform, Discrete Fourier Transform, Fast Fourier Transform, random variables, coherence, correlation, auto- and cross-correlation, power spectral density, transfer function, and modal analysis; experience using a commercial FFT analyzer. Design project required. *Prerequisite: EGME-4710 Vibrations.* (Fee: \$100)

EGME-4810

3 hours

Mechanical Engineering Senior Design I-Fa

This is the senior capstone design project for mechanical engineers. Student teams work independently on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work in this semester includes writing the proposal and performing background research and preliminary design. Students conduct a mid-term design review and end-of-semester oral and written presentation. Projects are advised by a faculty committee; course includes weekly written progress reports and meetings with the faculty project advisor. Prerequisites: EGME-3850 Mechanical Design; EGME-3610 Kinematics and Design of Machines; EGME-3150 Heat Transfer; EGME-3020 Mechanical Engineering Lab II; and senior status. (Fee: \$100)

EGME-4820 3 hours

Mechanical Engineering Senior Design II-Sp

A continuation of EGME-4810, emphasizing detailed design, prototyping, troubleshooting, design modifications, project completion, reporting, and oral presentation. Students submit written progress reports and attend meetings each week with the faculty project advisor, conduct an oral presentation, and prepare the final report. *Prerequisite: EGME-4810 Mechanical Engineering Senior Design I.* (Fee: \$100)

EGME-4950 1–3 hours

Advanced Topics in Mechanical Engineering-Sp

Selected topics in mechanical engineering at the 4000-level that expand the depth of existing 3000- and 4000-level courses or expose the students to advanced concepts not taught in other courses. Topics may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

Department of English, Literature, and Modern Languages Course Descriptions

Arabic Language (ARBC)

ARBC-1400

3 hours

Introduction to Arabic Language and Culture

Introduction of the Arabic script and basic vocabulary used for greetings and other everyday situations. Introduction to various aspects of Arab culture, including history, religion, literature, politics, and daily life. This course is intended for non-native speakers with no previous Arabic study. This course satisfies the global awareness course requirement.

ARBC-1410 Elementary Arabic I-Fa

4 hours

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture.

ARBC-1420 Elementary Arabic II-Sp

4 hours

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. *Prerequisites: ARBC-1410 Elementary Arabic I, instructor's approval, or placement by exam.*

ARBC-2410 Intermediate Arabic I-Fa

4 hours

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I and ARBC-1420 Elementary Arabic II, instructor's approval, or placement by exam.*

ARBC-2420 Intermediate Arabic II-Sp

3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. *Prerequisites: ARBC-1410 Elementary Arabic I, ARBC-1420 Elementary Arabic II, ARBC-2410 Intermediate Arabic I, instructor's approval, or placement by exam.*

ARBC-3500

1-3 hours

Independent Study in Arabic Language and Culture-Fa, Sp

This course gives opportunity for independent study in a particular area of Arabic language and culture for students who demonstrate special interests and ability.

Chinese (CHN)

CHN-1100 Elementary Chinese I-Fa, Sp

4 hours

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese.

CHN-1200 Elementary Chinese II-Fa, Sp

4 hours

This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese. *Prerequisite: CHN-1100 Elementary Chinese I.*

Creative Writing (CWRT)

CWRT-2220 Introduction to Creative Writing-Fa, Sp 3 hours

This course is a prerequisite requirement for any 3000-level creative writing course. The course covers basic instruction in technique and style for all three genres of creative writing: fiction, creative nonfiction, and poetry. *Prerequisite: ENG-1400 Composition.*

CWRT-3030 Fiction-Sp

3 hours

Workshop approach to studying, creating, and responding to short stories. Course focuses on the elements of the modern short story from Chekhov forward. Emphasis is on traditional literary fiction; the course does not cover science fiction, fantasy, adolescent fiction, or children's literature. *Prerequisite: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.*

CWRT-3040 Poetry-Fa

3 hours

Provides guided practice, instruction in craft, constructive criticism, and a supportive atmosphere. Students should leave the course with more confidence about how to read and write poetry, as well as knowledge of the tradition, issues, and forms of poetry. *Prerequisite: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.*

CWRT-3050 Creative Nonfiction-Fa

3 hours

Intensive study in writing literary nonfiction. Course focuses on sub-genres in contemporary nonfiction: the personal essay, autobiography/the memoir, the short, reportage. Workshop and conference approach. *Prerequisite: ENG-1400 Composition; CWRT-2220 Introduction to Creative Writing.*

CWRT-4220 3 hours

Advanced Creative Writing Workshop-Fa, Sp

Course provides an opportunity to produce and workshop an original body of work in a genre of your choice. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: CWRT-3030 Fiction, CWRT-3040 Poetry, CWRT-3050 Creative Writing.*

CWRT-4350 Creative Writing Capstone-Fa, Sp

Course provides an opportunity to see your individual project through to fruition with the support of a workshop setting and faculty mentorship. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: CWRT-3030 Fiction, CWRT-3040 Poetry, CWRT-3050 Creative Writing.*

English (ENG)

ENG-0900 Writing Studio-Fa, Sp

l hou

This course prepares students for university-level, academic writing by focusing on the rhetorical situation and exposing students to a wide variety of writing situations for which appropriate audiences, purposes, genres, stances, and mediums must be ascertained. The course aids students with various writing assignments by workshopping drafts in process for composition and other courses across the curriculum. While the rhetorical situation and writing process are emphasized, grammar will be a major focus as well. *Co-requisite: ENG-1400 Composition; or permission of instructor.*

ENG-1400 Composition-Fa, Sp

3 hours

Designed to assist the student in developing the skills necessary to meet the demands of typical writing situations, both academic and professional. The course will introduce the student to the common expository writing methods of description, narration, analysis, persuasion, and research presentation. (Fee: \$25)

ENG-2020 2 hours

Career Development for the English Major-Fa

Course will orient students to the marketplace value of an English major. Topics will include skills and personality assessment, career exploration, and the development of a theology of vocation. (even years)

ENG-2070 Fundamentals of English Grammar-Fa, Sp 3 hours

This course is a foundational course for preservice language arts educators and is a prerequisite for Advanced Grammar. It covers forms and functions of words, pronoun/antecedent agreement, subject/verb agreement, and pedagogy.

ENG-2120

History of Rhetorical Theory and Literary Criticism-Sp

A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have shaped rhetorical theory and led to the literary critical canon. We will examine three major questions: What are the functions of rhetoric and literature? What are the intersections between the two? How do we evaluate each? Featured writers will include Plato, Aristotle, Augustine, Blair, Grimke, Cady Stanton, Burke, and Bakhtin. *Prerequisite: ENG-1400 Composition.*

ENG-2230 Advanced Composition–Fa, Sp 3 hours

An advanced treatment of the composing process, particularly related to the planning, drafting, revision, and final composition of essays. Writing workshops and peer evaluations are included. *Prerequisite: ENG-1400 Composition.*

ENG-3010 Style and Mechanics for Writers–Fa, Sp, Su $\,$ 3 hours

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with PWID-3010 Style and Mechanics for Writers) *Prerequisite: ENG-1400 Composition.*

ENG-3060 The English Language—Fa 3 hours

Historic treatment of the growth and change in the English language with some attention to the ideologies implicit in the development of variant conventions. *Prerequisite: ENG-1400 Composition.*

ENG-3070 English Grammar–Fa, Sp 3 hours

In this course, students will study the conventions of the English language, which include the grammar and syntax of standard English. Students will use Reed and Kellogg traditional sentence diagrams to analyze and to represent the syntax of English sentences. The course also includes discussions about contemporary usage. Required of all majors with English as a teaching field. *Prerequisite for adolescent and young adult language arts majors only: ENG-2070 Fundamentals of English Grammar.*

ENG-3180 Visual Rhetoric-Fa 2 hours

Students will be given an overview of visual design principles and practices related to the technical communication field. During the course, students will build their design acumen by reading widely and by participating and leading coherent, comprehensive discussions. Students will also practice their growing design expertise by critiquing various visual tratments, writing a treatise on the Christian approach to visual communication, and by analyzing visual communication through the lens of a Christian worldview.

ENG-3200 Practicum in Writing Instruction—Sp 2 hours

This course is designed to explore and practice the various methods and theories essential to the teaching of written expression. Course content includes discussion of and practice with the CCSS (Common Core) writing standards, the writing process, and assessment of student writing. *Prerequisite: EDUC-2300 Assessment and Differentiation*.

ENG-3333 Internship—Sp **1-3 hours**

Department-approved work-study program for advanced English majors or minors to receive academic credit for a career development opportunity in a job related to an English field. (even years)

ENG-3550 Writing Center Theory and Training-Sp 2 hours

Designed to orient students to writing center theory and practice. Will train students for employment opportunities in the writing center. *Prerequisite: ENG-1400 Composition; permission of instructor.*

ENG-4200 Methods of Teaching Writing-Fa 2 hours

This course will prepare students to teach writing. Course content will include instructional methodology and conferencing and assessment techniques. *Prerequisites: currently enrolled in student teaching or by permission of instructor.*

ENG-4230 Independent Study in English-Fa, Sp 1-3 hours

Independent study in a selected field for students with special interests and demonstrated ability.

Film (FILM)

FILM-2350 Christian Motifs in Film-Fa

3 hours

Study of depictions of Christ and Christ-figures as well as other Christian motifs in film. This course will provide a detailed introduction to the characteristics of the Christ-figure and its most common manifestations in film. The course will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith. This course may be used to satisfy the general education humanities elective requirement.

French (FREN)

FREN-1910

3 hours

4 hours

Elementary French I-Fa

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture. FREN-1920 4 hours

Elementary French II-Sp

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture. *Prerequisite: FREN-1910 Elementary French I.*

FREN-2910 Intermediate French I-Fa

4 hours

Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. *Prerequisite: FREN-1920 Elementary French II; instructor's approval or placement by exam.*

FREN-2920 Intermediate French II-Sp

3 hour

3 hours

Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. Prerequisite: FREN-1920 Elementary French II; FREN-2910 Intermediate French I; instructor's approval or placement by exam.

FREN-3940 Special Topics in French–Fa, Sp, Su 1-3 hours

This course is offered as an intensive and independent study in a particular area of the French language, literature, or culture for individual students who demonstrate special interests and ability. Prerequisite: FREN-2920 Intermediate French II

FREN-3910 French Conversation-Fa

Designed to increase the student's aural comprehension and oral communication in French. Attention given to pronunciation, vocabulary building, communication strategies, and effective cross-cultural communication. *Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.*

FREN-3920 Contemporary French Culture–Sp 3 hours

Exploration of beliefs, behaviors, and values of Francophone cultures through a comparative approach that provides a framework for describing France and the French in relation to others and themselves. *Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.*

FREN-3930 Survey of French Literature—Sp 3 hours

This course focuses on a sampling of French literature selections set in historical context. The course includes readings from major French and Francophone authors. Students will gain knowledge of the literature, analyze the techniques used, and gain cultural background and understanding. *Prerequisite: FREN-2920 Contemporary French Culture or permission of instructor.*

German (GER)

GER-1810 Elementary German I-Fa

4 hours

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

GER-1820 Elementary German II-Sp

4 hours

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture. *Prerequisite: GER-1810 Elementary German I.*

GER-2810 Intermediate German I

4 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite: GER-1820 Elementary German II or equivalent*.

GER- 2820 Intermediate German II

3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite: GER-2810 Intermediate German I or equivalent.*

GER-3800 Special Topics in German–Fa, Sp 1–3 hours

Topic chosen by the student and professor, based upon need and interests. *Prerequisite: GER-2820 Intermediate German II or equivalent*.

GER-3810 German Conversation and Composition-Sp 3 hours

Students will focus on the productive skills of the German language, speaking and writing. Oral practice in German through speeches and oral reports, along with a review of pronunciation, will provide emphasis on speaking skills. Written versions of speeches and reports, along with a review of grammar, will provide emphasis on writing skills.. Prerequisite: GER-2820 Intermediate German II or equivalent. (even years)

GER-3820 Germanic History and Culture-Sp 3 hours

This course is designed to introduce students to the history and culture of Central Europe, specifically the region where German is the native language of the inhabitants and where present-day Germany, Austria and Switzerland are located. Students will also learn how Germanic History influenced and played a role in establishing modern-day western cultural norms. Course taught in English. (odd years).

GER-3830 Survey of German Literature-Fa

3 hours

A survey of German literature from the Middle Ages through the 20th century designed to provide the student with an understanding of the literature and its reflection of the culture. Readings in German and English. *Prerequisite: GER-2820 Intermediate German or equivalent*.

Linguistics (LING)

LING-2070 Introduction to Linguistics-Sp

2 hours

This introduction to the study of linguistics provides an opportunity for students to become familiar with the tenets, concepts, and theories of the field of study. It additionally acquaints students with the practical side of the study of linguistics in disciplines such as philosophy and biblical languages, English and writing, cultural studies, mathematics, information technology, computer science, education and psychology, electronic media, and teaching English to speakers of other languages.

LING-3080 Linguistics for Language Learning-Fa 3 hours

An analytical approach of language functioning applicable to learning any second language. Using theoretical-based approaches, the emphasis is on English language variations, phonology, morphology, and syntax. The student is also introduced to various theories of second (new) language acquisition at different age/grade levels. Second (new) language study as a means of personal development and the importance of second (new) language learning in modern society are addressed. *Prerequisite: degree-seeking students only; sophomore, junior, or senior status only.*

LING-3082 Phonetics-Fa

3 hours

Phonetics is the study and classification of speech sounds, within the broader study of phonology, the study of the sound system of language. This course builds on the theories of phonology and provides opportunities for practical application of the theories. Students will work with the International Phonetic Alphabet (IPA) in classifying sounds in standard and nonstandard forms of English and will consider and classify the sounds of other languages. *Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning.*

LING-3090 Sociolinguistics-Fa

3 hours

An overview of the relationship between language and society. Topics covered include ethnicity, social contact, change, and issues related to minority students such as education, immigration, migration, demographics, and historical and legal precedents. The student will also gain knowledge and cultural understanding of minority groups in Ohio. *Prerequisite: degree seeking students only.*

LING-3100 Principles of Language Acquisition—Sp 3 hours

The practical side of the study of linguistics is the study of how language is acquired, both by children learning to speak and by adults learning a second language. This course will present the basic theories of both types of language acquisition and will provide students the opportunity to do original research in the field. *Prerequisite: degree-seeking students only; sophomore, junior, or senior status only. LING-3080 Linguistics for Language Learning.*

LING-3200 Special Topics in Linguistics-Fa, Sp, Su 1-3 hours

Independent study in a selected field for students with special interests and demonstrated ability in the field of Linguistics.

Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition.

LING-3500 2 hours

Methods of Teaching Foreign Language-Fa

Designed around ACTFL's Standards of Foreign Language learning, this course prepares students to teach in the K-12 world language classroom and also to teach English as a new language. In this course, students will examine the purposes and objectives along with the methods and curricular models appropriate for the K-12 world language classroom, as well as adult-level language teaching. This course addresses theories of second language acquisition and how language learning looks different at the various stages of a language learner's life. Using theory to inform practice, students will learn to plan and assess for student learning, including the creation of learning activities, assessments, lesson plans, and thematic unit plans, as well as evaluating and providing feedback to maximize student learning. Students will also gain insight into the importance of understanding one's own language, culture, and worldview as a means to understanding the language, culture, and worldview of the target peoples and the important role that cultural understanding plays in communication. This course will prepare students to plan, teach, and assess effectively in today's rapidly changing classroom. Open to students majoring in multi-age Spanish education or linguistics, and those minoring in TESOL. Prerequisites: degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or advisor. (crosslisted with SPAN-3500)

LING-3610 **TESOL Practicum for Education Majors**-Sp

Independent teaching of ESL students under the general supervision of a master teacher. In a K-12 placement under the supervision of a qualified ESL teacher, the student will practice teaching in a formal classroom situation. During this 50-hour experience, the student will be provided opportunities to establish goals and objectives and design curricula that reflect Ohio's grade level learning outcomes in content areas. The student will also be given opportunities to select, adapt, create, and use varied resources appropriate to age, cultural groups, and different learning styles. Activities should include integrating technology in planning and delivering instruction and strategies for creating and maintaining communication with families. Practicum will also provide the student with knowledge and skills in assessment. Prerequisites: ENG-3060 History of the English Language: ENG3070 English Garmmar; LING-3080 Linguisitics for Language Learning; LING-3100 Principles of Language Acquisition; and LING-3500 Methods of Teaching Foreign Language. (Fee: \$50)

TESOL Practicum for Non-Education Majors-Sp

LING-3710

Practice teaching of ESL under general supervision of master teacher for non-education majors who are completing TESOL minor requirements. Prerequisite: degree-seeking students only; sophomore, junior, or senior status only; ENG-3070 English Grammar; LING-3080 Linguistics for Language Learning; LING-3100 Principles of Language Acquisition; LING-3500 Methods of Teaching Foreign Language. Credit/No credit. (Fee: \$45)

LING-4210 Senior Research in Linguistics I-Fa 2 hours This course is the first of two components (LING 4210, LING 4220) of the capstone experience for the major in linguistics. In these courses, students will acquire skills for conducting research in linguistics and will put into practice the theories and concepts learned while completing independent research in the field. This course focuses on the research and design of the study. Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition.

LING-4220 Senior Research in Linguistics-Sp

This course is the second of two components (LING-4210, LING-4220) of the capstone experience for the major in linguistics. In these courses, students will acquire skills for conducting research in linguistics and will put into practice the theories and concepts learned while completing independent research in the field. This course focuses on completing the study and writing the findings in preparation for professional publication or presentation. Prerequisites: LING-2070 Introduction to Linguistics; LING-3080 Linguistics for Language Learning; LING-3082 Phonetics; LING-3090 Sociolinguistics; LING-3100 Principles of Language Acquisition; LING 4210 Senior Research in Linguistics I.

Literature (LIT)

LIT-1990 First-Year Seminar-Fa, Sp

This course will provide instruction in the close reading of and the analytical writing about literary texts. Prerequisites: ENG-1400 Composition.

LIT-2090 Literary Analysis-Fa, Sp 3 hours

Introductory study of contextual analysis. This course is primarily intended for adolescent and young adult integrated language arts and English majors as preparation for upper-division literature courses. Prerequisite: LIT-1990 First-Year Seminar

LIT-2300 Introduction to Literature-Fa, Sp 3 hours

Emphasis on developing the ability to read critically and analytically representative examples of literary genres through use of appropriate criteria. Prerequisite: ENG-1400 Composition.

LIT-2330 World Mythology-Fa, Sp

2 hours

2 hours

Study of mythologies, the theories of myth and myth making, and the incorporation of myth in selected literary works.

Prerequisite: ENG-1400 Composition.

LIT-2340 Western Literature-Fa, Sp, Su

3 hours

Survey of major works of Western literary tradition from Homer to T.S. Eliot. Prerequisite: ENG-1400 Composition.

LIT-2390 3 hours

Survey of American Literature to 1900-Fa, Sp

Study of prominent American authors from colonial times to 1900. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition

LIT-2430 Survey of British Literature to 1800-Fa 3 hours

Study of various English authors from the Anglo-Saxons to 1800. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition.

LIT-2440 3 hours

Survey of British Literature from 1800 to Present-Sp

Study of noteworthy English authors from 1800 to the present. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition.

LIT-3090 Literary Research and Recovery-Sp 3 hours

This course will introduce students to current trends in literary scholarship that emphasize the (re)discovery, evaluation, and recovery of formerly marginalized writers and genres. The course could include, but is not limited to, an introduction to primary research related to 19th and early 20th-century periodicals, literary biographies, literary bibliographies, and original manuscripts or previously published texts maintained in the Cedarville University archives. (odd years)

LIT-3100

Contemporary Young Adult Literature-Sp

A study of contemporary young adult literature, addressing issues of interpretation, analysis, and personal response with an emphasis on literature that reflects a diversity of gender, race, and ethnicity.

LIT-3170 American Literature: 1820-1865-Sp

Intensive study of American authors who are representative of the literary traditions of Romanticism and Transcendentalism and their influence on a period of history often called the American Renaissance. Authors may include Emerson, Thoreau, Fuller, Whitman, Dickinson, Douglass, Jacobs, Stowe, Poe, Hawthorne, Melville, and others. (even years)

LIT-3180 American Literature: 1865-1914-Sp

Intensive study of American authors who are representative of the literary traditions of Realism and Naturalism, with attention to their influence on developments in American history between the Civil War and World War I. Authors may include Twain, Howells, James, Wharton, Piatt, Jewett, Freeman, Chesnutt, Crane, London, Dreiser, Norris, Alcott, and others. (odd years)

LIT-3230 Directed Readings-Fa, Sp

Selected readings designed to strengthen the major by providing primary and secondary material in preparation for an independent study of a major writer, literary genre, or literary period. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-3240 Directed Writings-Fa, Sp 1-3 hours

Students will work in close consultation with a faculty member on the creation and production of a significant project in one of the following genres: poetry, fiction, creative nonfiction. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: any 3000-level creative writing workshop.

3 hours

LIT-3310 The English Novel-Fa

3 hours

Reading and critical analysis of representative novels written in English. Authors include Fielding, Barnes, Rushdie, Gordimer, and Greene. (odd years)

LIT-3320 Renaissance Literature-Sp

3 hours

A study of Metaphysicals, Milton, and other selected Renaissance writers. (odd years)

LIT-3350 Shakespeare-Fa

3 hours

Representative comedies, history plays, tragedies, and sonnets. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.

LIT-3380 Contemporary British Literature-Fa

3 hours

Study of representative and significant 20th century British writers, especially those reflective of modern ideologies. (even vears)

LIT-3400 3 hours

Contemporary Studies in World Literature-Fa

Study of contemporary literature outside the American and British traditions. Writers may include Chinua Achebe, Nadine Gordimer, Duong Thu Huong, Gabriel Garcia Marquez, Haruki Murakami, V.S. Naipaul, Moniru Ravanipur, Jose Saramago, Tatyana Tolstoya, Luisa Valenzuela, Gao Xingjian, and others. (even years)

LIT-3420 American Novel-Sp

3 hours

Study of the historical development of the American novel and an analysis of the writings of major American novelists from Cooper to Roth. (odd years)

LIT-3440 Multiethnic American Literature-Sp

A survey of literature produced by writers from diverse ethnic groups, including (but not limited) to Native American, African American, Chicano, Jewish, and Asian American. (even years)

LIT-3460 Contemporary East Asian Literature-Fa

This course introduces students to contemporary literature from East Asia focusing primarily on works in translation from China, Japan, and Korea. (odd years)

LIT-3510 Modern American Literature-Fa

Study of major American authors of the 20th century. (odd 3 hours

LIT-3520 C.S. Lewis and The Inklings-Sp

Study of Lewis' contributions in the fields of literature, criticism, and apologetics. Special attention will be placed on understanding Lewis' personal and intellectual development, his relationships with contemporary scholars and writers, and his continuing influence.

LIT-3530 Graphic Novel-Fa

3 hours

This course will focus on the emerging literary form of the graphic novel. Students will be introduced to the history and development of sequential art as well as the narrative techniques and conventions used in graphic novels, manga, bandes dessinees. Students will read a broad selection of representative works. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: major status or permission of the instructor. (even years)

LIT-3540 American Women Writers-Sp 3 hours

Study of American Women writers between 1790 and 1940, covering diverse women writers, genres, themes, and current scholarship. Authors may include, but are not limited to Murray, Rowson, Child, Sedgwick, Kirkland, Fuller, Farnham, Cary, Cooke, Sara Payson Willis Parton (Fanny Fern), Cummins, Warner, Beecher, Keckley, Stowe, Wilson, Alcott, Jacobs, Southworth, Davis, Evans, Ruiz de Burton, Phelps, Stoddard, Harper, Freeman, Winnemucca Hopkins, Jackson, Woolson, Jewett, Chopin, Pauline Hopkins, Austin, Zitkalla-SA, Sui Sin Far, Wharton, Larsen Fauset, Cather, and Hurston. (even years)

LIT-4100 Studies in Integrated Language Arts-Sp

This course is designed to explore the various methods and theories essential to the teaching of English language arts. In this course, students will discuss and practice with theories of Backward Design, Long-term Planning and Assessment, 21st Century Skills, and High-leverage practices as they are specifically demonstrated in writing, reading, speaking, listening, and language development. Prerequisite: EDUC-2050 Teaching Diverse Learners, currently enrolled in LIT-3100 Principles of Teaching Adolescent and Young Adult, or permission of instructor.

Research seminar designed to help the student synthesize the skills emphasized in the English major. Required of all senior English majors. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Capstone course.

LIT-4230 Independent Study in Literature-Fa, Sp

Independent study in a selected field for students with special interests and demonstrated ability. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-4310 Literary Theory-Fa

LIT-4220 English Seminar-Sp

3 hours

3 hours

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts.

LIT-4420 European Novel-Sp

Study of the 19th and 20th century influence on the novel from Balzac to Camus. (even years)

LIT-4450 Milton: Poetry and Selected Prose-Fa 3 hours

A study of Milton's early poetry, Paradise Lost, Paradise Regained, Samson Agonistes, and selected prose works. (even vears)

LIT-4490 Special Topics-Fa, Sp

1-3 hours

Investigation of such literary phenomena that have intrinsic worth and engage student interest. Upper-level literature courses cannot be used as a substitution for the general education literature requirement.

LIT-4510 3 hours

Recent American Literature 1945-Present-Fa A study of the social, political, economic, and religious issues that defined the American experience in the last half of the 20th century. Diverse poetry, short stories, drama, novels, and films

will be analyzed to give students an understanding of the myriad subjectivities that have shaped American values and attitudes since World War II. Upper-level literature courses cannot be used as a substitution for the general education literature requirement. Prerequisite: any 2000-level literature course. (even years)

Spanish (SPAN)

SPAN-1710, 1720

4 hours/sem

Elementary Spanish I-Fa and II-Sp

Development of basic skills in reading, writing, speaking, and listening in Spanish to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures. Prerequisite: SPAN-1710 Elementary Spanish I or Spanish placement test for Elementary Spanish II.

SPAN-1740 Intensive Spanish-Su

6 hours

This course is a six-credit, short-term course designed for students who wish to combine SPAN-1710 Elementary Spanish I and SPAN-1720 Elementary Spanish II. Prerequisites: minimum GPA 2.0, high school Spanish highly recommended.

SPAN-2710, 2720

4/3 hours/sem

Intermediate Spanish I-Fa and II-Sp

Development of all four language skills through grammar review, composition, conversation, and readings in Spanish literature and culture. *Prerequisite: SPAN-1720 Elementary Spanish, instructor's approval, or placement by exam; SPAN-2710 Intermediate Spanish I prerequisite for Intermediate Spanish II.*

SPAN-2760 Spanish For Professionals—Sp 3 hours

Development of practical Spanish vocabulary and conversational skills related to careers in education, criminal justice, social work, and healthcare professions. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.* (odd years)

SPAN-3100 Special Topics–Fa, Sp 1–3 hours

Available to upper-level or otherwise qualified students who have an interest in specialized areas of Spanish language or culture.

SPAN-3500 2 hours

Methods of Teaching Foreign Language-Fa

Designed around ACTFL's Standards of Foreign Language learning, this course prepares students to teach in the K-12 world language classroom and also to teach English as a new language. In this course, students will examine the purposes and objectives along with the methods and curricular models appropriate for the K-12 world language classroom, as well as adult-level language teaching. This course addresses theories of second language acquisition and how language learning looks different at the various stages of a language learner's life. Using theory to inform practice, students will learn to plan and assess for student learning, including the creation of learning activities, assessments, lesson plans, and thematic unit plans, as well as evaluating and providing feedback to maximize student learning. Students will also gain insight into the importance of understanding one's own language, culture, and worldview as a means to understanding the language, culture, and worldview of the target peoples and the important role that cultural understanding plays in communication. This course will prepare students to plan, teach, and assess effectively in today's rapidly changing classroom. Open to students majoring in multi-age Spanish education or linguistics, and those minoring in TESOL. Prerequisites: degree-seeking students only; sophomore, junior, or senior status only; LING-3100 Principles of Language Acquisition; permission of instructor or advisor. (crosslisted with LING-3500)

SPAN-3610 Spanish Composition—Fa 3

Emphasis on development of clear, natural, and effective written communication in Spanish. Includes grammar review, vocabulary expansion, discussion of stylistic elements, and practice in writing narrative, descriptive, and several types of expository texts.

Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.

SPAN-3620 Spanish Conversation—Fa 3 hours

Designed to sharpen the student's communication in oral Spanish and to increase aural comprehension of spoken Spanish. Attention given to pronunciation, vocabulary building, and practice on hearing and speaking through in-class presentations and other activities. Also emphasizes the development of culturally appropriate approaches to communication and comparative study of Anglo and Hispanic cultures. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

SPAN-3640 Introduction to Hispanic Literature–Sp 3 hours

An introduction to concepts and vocabulary related to literary analysis through the study of representative works in narrative, poetry, drama, and essay by Spanish and Latin American authors, with emphasis on contemporary authors. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

SPAN-3670 Introduction to Translation-Sp

2 hours

An introduction to theory and practice related to bilingual translation and interpreting. Students will learn strategies for translating a variety of text types, as well as the fundamentals of interpreting. *Prerequisite: SPAN-3610 Spanish Composition; or SPAN-3620 Spanish Conversation.* (odd years)

SPAN-3680 History of Hispanics in the U.S.-Sp 3 hours

Examination of historical and contemporary issues that have affected Hispanic cultures in the U.S. and their views of Anglos, including the immigrant experience. Course taught in English; counts for Global Awareness elective. (even years)

SPAN-3690 Hispanic Film-Sp

3 hours

Explores the genres of Hispanic film and how these genres portray the cultural, social, and political environments in Spain and the Americas. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature: permission of instructor.* (even years)

SPAN-4610 Advanced Spanish Grammar–Fa

3 hours

Intensive review of high frequency grammatical structures problematic to non-native speakers of Spanish. Exploration of the history of the language as well as the theoretical aspects of the nature of language and the practical development of written and oral skills in Spanish. *Prerequisite: permission of instructor*. (even years)

SPAN-4640 Research in Language and Culture–Fa 3 hours

In-depth study of a particular topic of interest either through individual research or group discussion. Orientation may be interdisciplinary or author and genre specific. Capstone course. *Prerequisite: major or minor in Spanish; permission of instructor.* (odd years)

SPAN-4650 3 hours

Civilization and Literature of Latin America I-Fa

A survey of the geography, history, culture, and literature of Latin America from the pre-Columbian period through the 19th century. Emphasis is on the diversity of Latin American society and the factors that have shaped it. Literary works will be studied for their literary significance within their socio-historical context. *Prerequisite: SPAN-3640 Introduction to Hispanic Literature*. (odd years)

SPAN-4670 3 hours

Civilization and Literature of Latin America II-Sp

A survey of the history, culture, and literature of Latin America from the 19th century to the present. Emphasis will be on acquiring a greater awareness of current issues in Latin American society and understanding their contributing factors. Literary works will be studied for their literary significance within their socio-historical context. *Prerequisite: SPAN-3640 Introduction to Hispanic Literature.* (odd years)

SPAN-4680 2 hours

Advanced Conversation and Composition-Sp

Development of oral and written communication skills at the advanced level as well as expansion of vocabulary dealing with a variety of contemporary topics. *Prerequisite: SPAN-3610 Spanish Composition, SPAN-3620 Spanish Conversation, or permission of instructor.* (even years)

SPAN-4700 Independent Study in Spanish–Fa, Sp 1–3 hours

Independent and intensive study in a particular area of the Spanish language, literature, or culture for individual students who demonstrate special interests and ability.

SPAN-4740 Civilization and Literature of Spain I-Fa 3 hours

A study of major literary works of Spain from the medieval and Renaissance periods to the 17th century, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from prehistoric civilizations to the 17th century. *Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor.* (even years)

SPAN-4750 Civilization and Literature of Spain II-Sp 3 hours

A study of major literary works of Spain from the 17th century to the present day, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from the 17th century to present. Prerequisites: SPAN-3640 Introduction to Hispanic Literature. (even years)

SPAN-4760 Advanced Medical Spanish

Study of Spanish medical terminology and cross-cultural concepts essential for effective communication with Latino patients and their families in a variety of healthcare settings. Prerequisite: SPAN-2760 Spanish for Professionals. (even years)

SPAN-4770 1 hour

Spanish Clinical Experience for Health Care Personnel-Fa, Sp

A practical experience in which students minoring in Spanish for Healthcare Personnel assist healthcare professionals in clinical settings as they interact with Latino patients or clients. Prerequisite: SPAN-4760 Advanced Medical Spanish.

SPAN-4790 20th Century Spanish Theatre-Sp 3 hours

Selected reading and analysis of outstanding Peninsular theatre from Benavente, García Lorca, and other post-Civil War period dramatists. Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor. (even years)

Department of History and Government Course Descriptions

Anthropology (ANTH)

ANTH-1800 Cultural Anthropology-Fa, Sp

3 hours Analysis of the concept and its importance for the study of man; an examination of various cultures of the world as they relate to

technological, economic, social, political, and religious aspects of these cultures.

ANTH-4940 1-3 hours

Independent Study in Anthropology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Criminal Justice (CRJU)

CRJU-1310 Introduction to Criminal Justice-Fa

Introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized as a system with interacting and interdependent institutions. An understanding and comprehensive view of the formal criminal justice system is essential. (Fee: \$60)

CRJU-2200 Criminology-Fa 3 hours

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC.

CRJU-2310 Juvenile Delinguency-Fa

Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (Fee: \$15)

CRJU-2840

2 hours

3 hours

Concepts of Chemical Dependency-Fa

3 hours

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK.

CRJU-3300 Corrections-Fa

3 hours

In-depth consideration of probation, penology, and community supervision sectors of the field of criminal justice. (Fee: \$30)

CRJU-3310 Corrections Administration-Fa

3 hours

Contemporary issues related to management of correctional organizations from the administrator's perspective within the context of legal and political parameters. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3350 Criminal Law-Sp

3 hours

Focuses on the general classification of criminal offenses, rules of construction, burden and degree of proof, jurisdiction and venue, limitations to criminal prosecution, requirements for criminal liability, culpable mental states, defenses to criminal liability, and elements of criminal offenses. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3360 American Judicial System-Fa

An introduction to federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3390 Criminal Evidence-Sp

3 hours

Focuses on the evidence process applicable to criminal case preparation and presentation in court. Emphasis on types of evidence, tests of admissibility, objections, weight of evidence, witness competency and credibility, defenses, suppressions, order of evidence presentation at trial, and rules of evidence. Prerequisite: CRJU-1310 Introduction to Criminal Justice. 3 hours CRJU-3400 Criminal Procedure-Sp

Pertains to procedural law, which governs the enforcement of substantive criminal law. Emphasis on legal authority of law enforcement personnel and rights of the accused person with a review of pertinent U.S. Supreme Court decisions. Consideration is given to various procedural stages from criminal charges through post-conviction appeal. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3500 3 hours

Foundations of Emergency Management-Sp

Intensive study of the community structures that are in place to prepare for, and respond to, community emergencies. Particular emphasis will be given to understanding the various government, nongovernment, and private agencies and organizations that participate in the community preparedness schema, the process of communicty emergency planning, and the risks and realities of serious emergencies in our communities. Students will critically interact with previous American disasters and the impact of policies and practices in their outcomes. Also, students will be guided to how they can positively contribute to the resiliency of their community and what to do in the event of a serious emergency event. Prerequisites: CRJU-1310 Introduction to Criminal Justice. (even years)

CRJU-3700 3 hours

Financial Management for Social Science Professionals– \mbox{Sp}

Biblical principles of personal financial responsibility and their importance for honoring God, a Christian testimony, and avoiding monetary-corruptive influences in a criminal justice career. Topics in this area include: the biblical basis of work, budgeting, giving, tithing, spending, saving, debt, investing and financial stewardship. *Prerequisites: CRJU 1000-level core courses; ECON-2110 Essentials of Economics; or permission of instructor.*

CRJU-3990 Criminal Justice Internship-Fa, Sp, Su 3-12 hours

This internship places students in a professional criminal justice setting where they will gain insight into the practical and challenging situations of a career in criminal justice. Under supervision, students will apply classroom knowledge and contribute to agency operations. Students may earn up to 12 credit hours. Prerequisite: CRJU 1000 and 2000-level core courses or program director's permission.

CRJU-4150 Homeland Security-Sp 3 hour

This course is a study of the four central missions of domestic security. These areas are: domestic security, emergency preparedness, intelligence gathering and communication, and policy making. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-4160 3 hours

International and Domestic Terrorism-Sp

This course will introduce the student to the reality of domestic and international terrorism from a historical and contemporary perspective. Topics for consideration and study will include the mind and characteristics of the terrorist, the distinction between domestic and international terrorism, the religious terrorist contrasted with the political terrorist, the weapons of the terrorist, the United States government's efforts to control and/ or eradicate terrorism, and future predictions relative to terrorist activity. Crosslisted INTL and CRJU. *Prerequisites: CRJU-1310 Introduction to Criminal Justice.* (odd years)

CRJU-4200 Police Administration—Fa 3 hours

Focuses on contemporary policing issues and related administrative matters from the perspective of executive leadership. Emphasis on management of organizational resources regarding basic line and staff functions. Consideration is given to contemporary issues of community-oriented policing and federal legislative mandates. Case study is utilized. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-4320 Criminal Investigation—Fa 3 hour

Focuses on criminal investigative methods, identification procedures, crime scene search, categories of physical evidence, evidence collection and preservation, sources of information, interviews, and interrogations. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

CRJU-4440 Special Topics-Criminal Justice 1–3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

CRJU-4500 Comparative Criminal Justice-Sp 3 hours

This course has been developed to provide students basic knowledge and understanding of criminal justice from an international/comparative perspective. The course will consist of study of historical legal traditions and the influence of those traditions on modern criminal justice processes and transnational criminal justice agencies. *Prerequisites: CRJU-1310 Introduction to Criminal Justice*. (odd years)

CRJU-4630 3 hours American Constitutional Law — Civil Liberties and Rights—Sp

The United States Constitution defines the powers and scope of the American government and delineates the rights and liberties retained by the American people. This course focuses on the Supreme Court's interpretation of those rights and liberties by examining the Court's decisions in their legal and historical contexts. Crosslisted as POLS. *Prerequisites: GSS-1100 Politics*

CRJU-4900 Research Issues in Criminal Justice-Sp 3 hours

This is a capstone course for criminal justice majors. The course will usually focus on a significant issue in contemporary criminal justice. Major papers will be presented by individual students on sub-categories of the primary topic. Additionally, the course will prepare a project that will be presented in a public forum. *Prerequisite: senior status as a CRJU major.* (Fee: \$80)

CRJU-4960 1–3 hours

Independent Study in Criminal Justice

and American Culture

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

Geography (GEO)

GEO-3040 3 hours

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as HIST, INTL, and POLS. (odd years)

GEO-3080 History of Russia and Eastern Europe-Fa 3 hours

The course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS (even years)

GEO-3200 History and Politics of Latin America—Fa **3 hours**

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

GEO-3210 History and Politics of East Asia-Sp 3 hours

This course provides an overview of the major historical, political, economic, and social developments of China (Taiwan), Japan, and the two Koreas (South Korea and North Korea). May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years) GEO-3220 History and Politics of the Middle East—Sp 3 hours

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

GEO-3230 History and Politics of Western Europe-Sp 3 hours

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

GEO-3510 3 hours

World Regional Geography — Western Hemisphere-Fa

Spatial survey of various regions in the western hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

GEO-3520

3 hours

World Regional Geography — Eastern Hemisphere-Sp

Survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

GEO-4440 Special Topics-Geography

1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

GEO-4920 1–3 hours

Independent Study in Geography

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

General Social Science (GSS)

GSS-1100 Politics and American Culture—Fa, Sp 3 hours

This course serves as an introductory study of America's constitution and political institutions, with emphases on political participation, political culture, and public policy. (Fee: \$5)

GSS-1350 Career Options—Sp

1 hour

The course is designed to help students understand the connection between their chosen major and possible career aspirations. Skills, interests, values, and an appreciation for a biblical view of work are all critical parts of identifying a potential vocation. To aid students as they create a Career Map, this course will use valid, proven assessments and expose students to professionals in a variety of fields. (Fee \$60)

GSS-3630 4 hours

Data Analysis and Research Methodology-Fa, Sp

This course will train social science students in the use of statistical techniques that range from central tendency through bivariate regression, and it introduces students to the primary issues of research methodology, which includes levels of measurement, sampling, internal and external validity, and reliability. Students must also master the use of one piece of statistical software. Prerequisite: students must have satisfied Cedarville's mathematics proficiency requirement before enrolling in GSS-3630.

GSS-3640 3 hours

Qualitative Methodology and Reasoning-Fa, Sp

This is a course designed to introduce the students in the social sciences to qualitative, nonstatistical research methods. It includes qualitative, nonstatistical research methods. It includes qualitative research design, literature review, the interpretation of qualitative data, ethnographic methodology, proper methods of observation, interviewing and coding, testing the reliability of data, triangulation, and applying objective criteria to data. Included is an actual research project based on the material in the course.

GSS-3650 Quantitative Methodology-Fa, Sp 3 he

This course satisfies the statistics and research methodology requirements for several social science majors at Cedarville University. The goals of the course are to introduce students to descriptive and inferential statistical concepts and methods and to familiarize them with quantitative methodology within the social sciences. *Prerequisites: GSS-3640 Qualitative Methodology and Reasoning.*

GSS-3810,3820 1 hour each

Clinical Teaching in the Social Sciences-Fa, Sp

Practical, off-campus, formal education experience in which a student is assigned to assist a secondary education instructor in teaching responsibilities. A student will be expected to participate for 30 clock hours for each semester hour of credit. A student may arrange to do either of the following with the director of this experience in their discipline:

- 1. One 30-hour experience for two different semesters.
- 2. A 60-hour experience for one semester.

Prerequisite: admission to the Teacher Education Program.

GSS-4810 Policy Formation-Fa

3 hours

A core course of the D.C. Semester focusing on policy formation and encouraging appropriate appreciation for and analysis of that process from a biblically informed perspective. *Prerequisite: Acceptance into the D.C. Semester program.*

GSS-4820 Biblical Principles and Governance-Fa 3 hours

A core course of the D.C. Semester focusing on biblical principles related to the role of government, the responsibilities of citizens, and the evaluation of critical issues within the political system. *Prerequisite: Acceptance into the D.C. Semester program.*GSS-4900 Senior Research—Sp

3 hours

Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. Crosslisted with INTL. *Prerequisite:* GSS-3640 Qualitative Methodology and Reasoning; *or permission of instructor.* (Fee: \$80)

GSS-4990 Social Science/History Internship 1–16 hours

Majors who participate in government service, historical research, public administration, international studies, criminal justice, or other approved activities related to the social sciences may earn up to 16 hours of credit.

History (HIST)

HIST-1110 United States History I-Fa, Sp

3 hours

Survey and analysis of the development of the United States from the colonial period through Reconstruction. The course examines ethnic, social, military, political, economic, and ideological themes in order to achieve a broad understanding of American civilization to 1877. Attention is given to the dominant Christian influences that have tended to shape our cultural, social, and political development.

HIST-1120 United States History II-Fa, Sp 3 hours

Survey and analysis of the development of the United States from the Reconstruction Era to the present. The course examines ethnic, social, military, political, economic, and ideological themes in order to achieve a broad understanding of American civilization since 1877. Attention is given to the dominant Christian influences that have tended to shape our cultural, social, and political development.

HIST-2010 History of Civilization I-Fa, Sp

3 hours

Survey of human history and ideas from the advent of civilized life in the Ancient Near East to the Reformation Era. It presents religious, social, political, and general intellectual developments of humans from a Christian interpretive perspective.

HIST-2020 History of Civilization II-Fa, Sp

3 hours

Survey of human history and ideas from the Reformation Era to this century. It presents religious, social, political, and general intellectual developments of humans from a Christian interpretive perspective.

HIST-2100 Ohio History for Educators–Fa 2 hour

A survey of the history of the State of Ohio from pre-Colonial background to the present. Examines the settlement of Ohio by various Native American tribes, the early exploration and settlement by European migration and the state's place in national development from the 19th through 21st centuries.

HIST-2620 Church and State-Fa 3 hours

A historical overview of the relationship between the Christian church and government, ranging from the formation of the church to the modern age, including both European and American Developments. The course also exposes students to the most recent controversies regarding the state, religious liberty, and freedom of conscience. *Prerequisite: GSS-1100 Politics and American Culture.*

HIST-3000 Introduction to Historiography–Fa 3 hours

Introduction to the history of historical writing, methods of research, and the philosophy of history. Required of history majors. Should be taken in the junior year.

HIST-3030 3 hours

History of Christianity: Pre-Reformation-Sp

Survey of ancient and medieval Church history with emphasis given to doctrinal and institutional developments. (even years)

HIST-3040

3 hours

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, INTL, and POLS. (odd years)

HIST-3050 Renaissance and Reformation Europe-Fa 3 hours

A survey of the period spanning the fourteenth through the seventeenth centuries, focusing on the origins, rise, nature, and waning of the Renaissance, especially humanism, and the origins, development, and influence of the Protestant Reformations and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. Crosslisted with BTHT. (even years)

HIST-3080 History of Russia and Eastern Europe-Fa 3 hours

This course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet and Eastern European history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet Eastern European history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3110 Early American History-Sp 3 hou

Analysis of the development of American civilization from colonization to 1820. Political, religious, social, economic, and cultural institutions will be examined. *Prerequisite: HIST-1110 United States History or permission of instructor.*

HIST-3120

3 hours

History of Recent and Contemporary America-Fa

Intensive study of the domestic and foreign policies of the United States since 1945. Particular emphasis is given to American society in the 1950's, the Cold War, the Civil Rights Movement, the cultural revolution of the 1960's, American involvement in Vietnam, the Welfare State, Watergate, and the Reagan Revolution.

HIST-3130 Civil War and Reconstruction—Fa 3 hours

Study of the sectional crisis, the military and nonmilitary aspects of the Civil War, and the social and political phases of Reconstruction. *Prerequisite: HIST-1110, 1120 United States History. Alternates with HIST-3400 History of American Foreign Policy.* (odd years)

HIST-3200 History and Politics of Latin America-Fa 3 hours

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

HIST-3210 History and Politics of East Asia-Fa 3 hours

This course provides an overview of the major historical, political, economic, and social developments of China (Taiwan), Japan, and the two Koreas (South Korea and North Korea). May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years) HIST-3220 History and Politics of the Middle East—Sp 3 hours

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS.

HIST-3230 History and Politics of Western Europe-Sp 3 hours

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3300 3 hours

Modern Church History: Reformation to the Present-Sp

This course examines the institutional, intellectual and external contextual aspects of the Church from the period immediately following the Reformation to the present. Specifically the course will study the external and internal developments of the Christian Church in this period. (odd years)

HIST-3310 American Church History-Sp 3 hours

A survey of major trends, ideas and individuals in the history of the Church in America from the 1600s to the present, including the theological roots of American theology. Special attention will be given to the Puritans, Jonathan Edwards, the rise of the Social Gospel and theological liberalism. Crosslisted with BTHT. (odd years)

HIST-3400 History of American Foreign Policy–Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as INTL or POLS. *Prerequisite: GSS-1100 Politics in American Culture*. (even years)

HIST-3710 3 hours

History of Political Thought I: Ancient Through Medieval-Fa

Study of the development of political thought in the ancient and early medieval era with special attention given to the works of Plato and Aristotle. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS.

HIST-3720 3 hou

History of Political Thought II: Modern and Contemporary-Sp

Study of the development of political thought in the late medieval era and modern era with special attention given to the works of Thomas Hobbes and Friedrich Nietzsche. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS. Prerequisite: major or minor in economics, history, or political science or permission of instructor.

HIST-3730 American Political Thought-Sp 3 hours

Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American Founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. *Prerequisites: GSS-1100 Politics and American Culture.* (even years)

HIST-3750 Social Movements-Fa, Sp

3 hours ocial

Study of the influence of ideas and institutions upon social movements in America. Crosslisted as HIST or SOC.

HIST-4050 Diplomacy of the Major Powers-Sp 3 hours

Examines diplomatic relations among the world's most powerful nations, focusing on 20th century diplomacy and the future of international relations in the 21st century. Crosslisted as HIST, INTL, or POLS. *Prerequisite: POLS/INTL-3650 International Relations or permission of instructor.*

HIST-4440 Special Topics-History

1–3 hours

Investigation of specific topics in social science and history that have intrinsic worth and engage student interest.

HIST-4500 Seminar–Fa, Sp 3 hours

This course exposes students to the academic literature and major concepts in a historical field or subject in a seminar setting. The topic will vary by the professor's expertise, but will be in some area of American history, European history, non-Western history, or the history of Christianity.

HIST-4700 Research in History-Sp 3 hours

All history majors are required to take HIST-4700, the senior capstone course. Each student will prepare a formal monograph. *Prerequisite: major or minor in history.* (Fee: \$80)

HIST-4900

1-3 hours

Independent Study in History

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. *Prerequisite: permission of the instructor.*

International Studies (INTL)

INTL-2100 Global Issues-Sp

3 hours

Analysis of the international issues that are shaping our contemporary and future world, ranging from terrorism, the environment, international crime, disease, and collapsing states to the digital revolution and the global economy. *Prerequisite: GSS-1100 Politics and American Culture.*

INTL-3040 3 hours

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the European Union, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and POLS. (odd years)

INTL-3080 History of Russia and Eastern Europe—Fa 3 hours See course description for GEO-3080 History of Russia and Eastern Europe. (even years)

INTL-3200 History and Politics of Latin America—Fa 3 hours
See course description for GEO-3200 History and Politics of
Latin America. (odd years)

INTL-3210 History and Politics of East Asia—Fa 3 hours

See course description for GEO-3210 History and Politics of East Asia. (even years)

INTL-3220 History and Politics of the Middle East—Sp 3 hours
See course description for GEO-3220 History and Politics of the
Middle East.

INTL-3230 History and Politics of Western Europe—Sp 3 hours See course desription for GEO-3230 History and Politics of Western Europe. (even years)

INTL-3400 History of American Foreign Policy–Fa 3 hours

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or POLS. *Prerequisite: GSS-1100 Politics in American Culture*. (even years)

INTL-3650 International Relations-Fa 3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

INTL-3790 Comparative Politics—Fa 3 hours

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL.

INTL-4050 3 hours

Diplomacy of the Major Powers-Sp

See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS

INTL-4160 International and Domestic Terrorism-Sp 3 hours

In-depth study of terrorism, focusing worldwide and domestically. An intensive examination of ongoing international conflicts, narco-terrorism, eco-terrorism, cyber-terrorism, weapons of mass destruction, geographical trouble spots, enemies of the United States, terrorism-counter-terrorism theory and options, terrorism history, law, civil liberties, and Homeland Security. Crosslisted as CRJU and INTL.

INTL-4440 Special Topics-International Studies 1–3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

INTL-4800 Seminar in International Studies-Fa

3 hours

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

INTL-4900 Senior Research-Sp

3 hours

Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. Crosslisted with GSS. Prerequisite: GSS-3640 Qualitative Methodology and Reasoning; or permission of instructor. (Fee: \$80)

INTL-4980 1-3 hours

Independent Study in International Studies

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Political Science (POLS)

POLS-2100 Topics-Fa, Sp

2 hours

Culturally oriented, topical classes designed to introduce students to political thinking from an academic perspective. Possible topics could include: Politics and Film, Politics & Sport, Politics & Music, The War on Terror, Jane Austen, From Media to Social Media, Dictators & Demagogues, Scalia v. Ginsburg, Campaign 2020.

POLS-2620 American State and Local Government-Sp3 hours

The organization and function of states and their political subdivisions form the basis of study in this course.

POLS-3040 3 hours

History and Politics of the British Isles and Canada-Sp

This course examines three countries: the United Kingdom, the Republic of Ireland, and Canada. After an extensive topical history along with a discussion of major prime ministers who served in the 19th and 20th Centuries, this course also investigates contemporary issues including foreign policy, recent political debates, secessionist problems in Scotland and Quebec, membership in the EU, and the ongoing structural changes to government. Crosslisted as GEO, HIST, and INTL. (odd years) **POLS-3080** 3 hours

History of Russia and Eastern Europe-Fa

See course description for GEO-3080 History of Russia and Eastern Europe. (even years)

POLS-3100 Public Budgeting-Fa

3 hours

See course description for PUAD-3100 Public Budgeting. (odd

POLS-3200 History and Politics of Latin America-Fa 3 hours

See course description for GEO-3200 History and Politics of Latin America. (odd years)

POLS-3210 History and Politics of East Asia-Fa 3 hours

See course description for GEO-3210 History and Politics of East Asia. (even years)

POLS-3220 3 hours

History and Politics of the Middle East-Sp

See course description for GEO-3220 History and Politics of the

Middle East.

POLS-3230 3 hours

History and Politics of Western Europe-Sp

See course description for GEO-3230 History and Politics of Western Europe. (even years)

POLS-3360 American Judicial System-Fa

Federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

POLS-3400 History of American Foreign Policy-Fa

American statesmen have defended the principles of their government and the rights of American citizens in a world of empires and nation-states. This course provides an overview of controversies over independence and imperialism, modern tyranny and regime change, which have marked U.S. foreign policy from the founding to the present day. Crosslisted as HIST or INTL. Prerequisite: GSS-1100 Politics in American Culture. (even vears)

POLS-3600 Public Administration-Fa

3 hours

See course description for PUAD-3600 Public Administration.

POLS-3650 International Relations-Fa

3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

POLS-3690 Public Policy-Sp

3 hours

See course description for PUAD-3690 Public Policy. Prerequisite: GSS-1100 Politics and American Culture

POLS-3710 3 hours History of Political Thought I: Ancient Through Medieval-Fa

See course description for HIST-3710 History of Political Thought I: Ancient Through Medieval.

POLS-3720

History of Political Thought II: Modern and Contemporary-Sp

See course description for HIST-3720 History of Political Thought II: Modern and Contemporary.

POLS-3730 American Political Thought-Sp

Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. Prerequisites: GSS-1100 Politics and American Culture. (even years)

POLS-3760 Jurisprudence-Fa

3 hours

A survey of historical and contemporary theories of law, including natural law, Yoderian theories, Theonomy, positivism, critical legal studies, historical jurisprudence, and others, as well as crucial legal concepts such as justice, due process, and current issues. Prerequisite: GSS-1100 Politics and American Culture. (even years)

POLS-3790 Comparative Politics-Fa

This course will familiarize students with major historical developments, political debates, and scholarly research in the subfield of comparative politics. Particular emphasis will be placed on topics of the modern state, nationalism, economic development, political culture and ideology, identity structure, regime types, regime transitions, and comparative political economy. Crosslisted as POLS or INTL.

POLS-4050 3 hours

Diplomacy of the Major Powers-Sp

See course description for HIST-4050 Diplomacy of the Major Powers. Crosslisted as HIST, INTL, or POLS.

POLS-4440 Special Topics-Political Science 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

POLS-4500 Seminar-Fa,Sp

3 hours

This course exposes students to the literature in a political science field or subject in a seminar setting. The topic will vary by the professor's expertise, but will be in some area of American politics, international studies, or political thought.

POLS-4630

American Constitutional Law — Civil Liberties and Rights-Sp

The United States Constitution defines the powers and scope of the American government and delineates the rights and liberties retained by the American people. This course focuses on the supreme Court's interpretation of those rights and liberties by examining the Court's decisions in their legal and historical contexts. Crosslisted as CRJU. Prerequisites: GSS-1100 Politics and American Culture

POLS-4640 3 hours

American Constitutional Law — Government Powers and Federalism-Fa

This course provides an in-depth analysis of landmark Supreme Court decisions pertaining to the power struggles between the three branches of government at the national level and the power struggles between the national government and state governments. In addition, this course will analyze how Supreme Court Justices interpret the Constitution and construct their opinions. Prerequisite: GSS-1100 Politics in American Culture (even years)

POLS-4800 Seminar in International Studies-Fa 3 hours

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

POLS-4930 1-3 hours

Independent Study in Political Science

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Public Administration (PUAD)

PUAD-3100 Public Budgeting-Fa

3 hours

3 hours

Analysis of public sector budgeting at all levels of government in the United States with an emphasis on budgets as reflectors of priority, power, and control. Crosslisted as POLS or PUAD. (odd years)

PUAD-3390 Public Finance-Fa 3 hours

A consideration of the financing of local, state, and federal governments. Much attention is given to three functions of government: stabilization, distribution, and allocation. All major taxes that are present in the United States are studied as to structure, revenue gained, and present status. Crosslisted as ECON. Prerequisite: ECON-2340 Macroeconomics. (even years) PUAD-3600 Public Administration-Fa 3 hours

Introduction to public administration both as a discipline and profession, including organization theory, budgeting, public policy analysis and evaluation, and public sector administration. Crosslisted as POLS or PUAD.

PUAD-3690 Public Policy-Sp

3 hours

Focus on decision making, problem solving, and methods of program analysis. Crosslisted as POLS or PUAD. Prerequisite: GSS-1100 Politics and American Culture

PUAD-4440 Special Topics-Public Administration Investigation of specific topics in Social Science and History

that have intrinsic worth and engage student interest.

PUAD-4640 Strategies for Public Administration-Fa 3 hours

Designed to acquaint the advanced student in public administration or international studies with some of the policy decisions facing American government. All three levels of American government, federal, state, and local, will be examined in light of their particular relationships with foreign governments. (odd years)

PUAD-4800 Applied Public Administration-Sp

Capstone course for public administration majors, involving the research of issues related to public administration in the United States from a normative and/or empirical perspective. (Fee: \$80) **PUAD-4970**

Independent Study in Public Administration

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Sociology (SOC)

SOC-1300 Introduction to Sociology-Fa, Sp

3 hours

Introduction to the concepts of sociology. The structure and processes of social life are studied.

SOC-2200 Criminology-Fa

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC.

SOC-2310 Juvenile Delinguency-Fa

3 hours

Study and assessment of casual theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC. (Fee: \$30)

SOC-2330 Introduction to Social Work-Fa, Sp

3 hours

3 hours

See course description for SWK-2330 Introduction to Social Work.

SOC-2400 Marriage and the Family-Fa, Sp

A biblical theology of marriage and the family is developed as a means by which to evaluate contemporary dating, marriage, and family arrangements. A major focus of the course is upon practical application related to such topics as dating/courtship, engagement, marital adjustment, in-law relations, communication and conflict resolution, family planning, and discipline.

SOC-2840 3 hours

Concepts of Chemical Dependency-Fa

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK.

SOC-2900 Ethics in the Helping Professions-Sp 3 hours

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view keeping in mind the ramifications decisions have on practice, services, and clients. Students learn to address delemmas by drawing upon Scripture, professional values, and ethical principles as presented in the National Association of Social Workers Code of Ethics. as well as codes of ethics from other helping professions. The importance of human rights, justice, and mercy are incorporated throughout the course content. Crosslisted as SOC or SWK.

SOC-3330 Social Stratification-Fa

Study of the class structure and its implications for American society. Prerequisite: SOC-1300 Introduction to Sociology. 3 hours

SOC-3340 Sociology of Religion-Fa

The relationship of religion to society with particular reference to contemporary movements. (even years)

SOC-3420 Human Sexuality

2 hours

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with PYCH-3420 Human Sexuality. Prerequisite: PYCH-1600 General Psychology or permission of instructor.

SOC-3710 Family and Society-Sp

This sociological study of the family examines the scientific knowledge that exists about traditional and contemporary household arrangements. Research on alternative family forms is evaluated in light of public policy decisions and a biblical view of the family.

SOC-3730 Social Problems-Sp

3 hours

Study of selected social problems for the purpose of developing, understanding, and exploring approaches to the social treatment of these problems within a theistic framework.

SOC-3750 Social Movements-Fa, Sp

3 hours

See course description for HIST-3750 Social Movements.

SOC-4440 Special Topics-Sociology

1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

SOC-4720 Social Theory-Fa

3 hours Historical review of major sociological theorists and a critical

examination of their theories from a theistic perspective. SOC-4800 Research in Sociology-Sp 3 hours

Senior research paper in which each student focuses upon an issue or topic within the discipline of sociology. (Fee: \$80) SOC-4910 1-3 hours

Independent Study in Sociology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

SOC-4990 Sociology Internship-Fa, Sp, Su

Sociology majors who participate in government service, human services, research, social service, or other approved activities related to the social sciences may earn up to 12 hours of credit. Prerequisites: ANTH-1800 Cultural Anthropology, PYCH-1600 General Psychology, and SOC-1300 Introduction to Sociology

Social Studies Education (SSED)

SSED-3800

2 hours

Teaching Social Studies: Adolescent to Young Adult-Fa

An emphasis on the identification, examination, and implementation of the methods and materials that are appropriate for each teacher candidate's discipline area. Prerequisite: admission to the Teacher Education Program. Corequisite: other courses in the Adolescent and Young Adult Principles of Teaching block or permission of department Chair.

Interdisciplinary Studies Course Descriptions

College Studies (COLL)

COLL-0900 Foundations-Fa, Sp

Foundations is designed to orient students to the Cedarville University learning community, explore academic and life goals, and develop strengths to enhance academic success. The one-credit hour may not be used toward the hours needed for graduation. (Fee: \$150)

COLL-1010 MAP

MAP (academic probation course) — a unique avenue in which to cultivate scholarship and discipline from a holistic approach for students who are struggling academically. The course is designed to help students in the context of relationship and accountability, to enable students to learn within the dynamics of their lives, to bring concrete strategies to the learning process and to develop skills that will translate into other realms of living. (Fee: \$200)

Developmental (DEV)

DEV-0900 Intermediate Algebra-Fa, Sp

2 hours

Review of algebraic principles, which are then extended to the solution of polynomial equations, systems of linear equations, rational and radical equations, functional notation, exponential functions, and logarithmic functions with emphasis on computational proficiency. This course is designed to prepare the student for GMTH-1020 College Algebra or other mathematics courses of comparable difficulty. The class time consists of two hours of lecture and two one-hour laboratories each week. May not be applied toward the 128 semester hours needed for graduation nor toward the science and mathematics General Education Requirement.

Honors (HON)

Freshman Humanities Sequence: HON-1010,1020

The Making of the Modern Mind **HON-1010 The Classical and Medieval Ages** 10 hours 5 hours

This course explores the development of historical, religious, philosophical, and artistic movements from creation to the 16th century. Emphasis is given to historical influence between intellectual eras and biblical evaluation of historical worldviews. **HON-1020** 5 hours

Renaissance, Reformation, and Revolutions

This course explores the development of historical, religious, philosophical, and artistic movements from the 16th century to the present. Emphasis is given to historical influence between intellectual eras and biblical evaluation of historical worldviews.

HON-3020 Honors Seminar

Investigation of special topics that have intrinsic worth and engage student interest. Seminars are focused on the liberal arts from an interdisciplinary perspective. Past offerings include: C.S. Lewis; Biblical Canon; Music and Nationalism; Change, Emergence, or Design?; and Human Personhood. This course is repeatable. Prerequisites: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions. **HON-4900 Independent Study in Honors**

Independent and intensive study in a particular area for

individual students who demonstrate special interests and ability. Prerequisites: HON-1010 The Classical and Medieval Ages; instructor approval.

HON-4910 Honors Senior Colloquium I

1 hour

Development of a generic understanding of the integration of faith, learning, and life. 1 hour

HON-4920 Honors Senior Colloquium II

Development of a disciplinary understanding of the integration of faith, learning, and life.

HON-4950 Honors Senior Project

1-2 hours

The writing of an interdisciplinary research project.

Liberal Arts (LART)

LART-1000 Introduction to Liberal Arts-Fa

1 hour

An introduction to the liberal arts and the Liberal Arts program. LART-4940 Senior Research Methodology-Fa, Sp 1 hour

This course prepares students for the senior capstone project and guides them through the completion of their capstone proposal. Prerequisites: LART-1000 Introduction to Liberal Arts; permission of instructor.

LART-4950 Senior Project-Fa, Sp

2 hours

Students select a topic of interest and then research and write a paper under the direction of a research mentor. Students present findings before faculty and peers. Prerequisites: LART-4940 Senior Research Methodology; acceptance in the B.A. of Liberal Arts degree program and senior status.

Military Science Course Descriptions

Air Force ROTC (AES)

Air Force ROTC courses are offered through Cedarville University in collaboration with the Air Force ROTC detachment located at Wright State University. While Air Force ROTC courses are included in the Cedarville University course schedule for registration purposes, leadership laboratories and classes are usually conducted on the campus of Wright State University. Cedarville University provides transportation for off-site classes.

AES-1210,1220 1 hour/sem Foundations of the United States Force I (Fa) and II (Sp)

(AS 100), These courses are survey courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

AES-1211/1221 0 hours General Military Course (GMC) Leadership

Laboratory-Fa, Sp

This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet-led, cadre-supervised lab environment. Taken concurrently with 1000-level AES courses. Credit/no credit.

AES-2210,2220 1 hour/sem **Evolution of USAF Air and Space Power I (Fa)**

and II (Sp)

(AS 200) These courses feature topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.

AES-2211/2221 0 hours

Field Training Preparation Leadership Lab (FTP)-Fa, Sp

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of the upcoming Field Training summer program. Training is cadet-led, where the students will display their ability to apply Air Force concepts and procedures. Taken concurrently with 2000-level AES courses. Credit/no credit.

AES-2500 Extended GMC Leadership Laboratory 0 hours

This course is for cadets who have met the requirements of GMC but have not yet completed field training.

AES-3310.3320 3 hours/sem United States Air(Force Leadership Studies I (Fa) and II (Sp)

(AS 300) These courses teach cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

AES-3311/3321

0 hours

Intermediate Cadet Leadership Laboratory (ICL)-Fa, Sp

The (ICL) lab builds the foundation of leadership skills required as an Air Force Officer. Cadets apply leadership/management concepts learned in Field Training and previous aerospace studies classes and labs to assist in training the GMC cadets. Taken concurrently with 3000-level AES courses. Credit/no credit.

AES-4310,4320 3 hours/sem

National Security Affairs/Preparation for Active Duty I (Fa) and II (Sp)

(AS 400) These courses are designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

AES-4311/4321 0 hours

Senior Cadet Leadership (SCL) Laboratory-Fa, Sp

This lab prepares students for progression into active duty life. As in the ICL lab, students take leadership roles in execution of leadership labs for the cadet wing. Students hone leadership fundamentals learned in previous courses and labs to a level commensurate to entry into the active duty Air Force. Taken concurrently with 4000-level AES courses. Credit/no credit.

AES-4500 Extended POC Leadership Laboratory 0 hours

This course is for cadets who have met all requirements for Air Force ROTC but have not yet completed their baccalaureate degree.

Physical Training sessions are twice a week, see instructor for details. Physical training is not an official class and registration is not necessary; however participation is required.

Army ROTC (MIL)

Army ROTC courses are offered through Cedarville University in collaboration with the Army ROTC detachment located at Central State University. While Army ROTC courses are included in the Cedarville University course schedule for registration purposes, classes, labs, and physical training are usually conducted on the campuses of Central State University and Cedarville University. Cedarville University provides transportation for off-site classes. MIL-1000 Leadership Lab I 0 hours

Applied Army ROTC training. Taken concurrently with 1000-level

MIL courses.

MIL-1010,1020 Military Science I 2 hours/sem

Introduction to the history, role, and organization of the Army and ROTC, as well as the U.S. Army Reserve and U.S. Army National Guard, and the available career options. Introduces officership, military customs and traditions, map reading, land navigation, field training, first-aid procedures, and physical fitness training. Familiarize with rank structure, drill and ceremony, military courtesies, weapons, marksmanship, and communications equipment. Discuss styles and fundamentals of leadership and develop leadership skills.

MIL-2000 Leadership Lab II 0 hours

Applied Army ROTC training. Taken concurrently with 2000-level MIL courses.

MIL-2010,2020 Military Science II 2 hours/sem

Course of study includes emergency first-aid procedures, field survival practices, physical fitness, orienteering, and small-unit leadership training. Explores the various career management fields within the Army. Students will begin to receive leadership assignments and responsibility within the cadet battalion. Introduction to advanced course of study.

MIL-3000 Leadership Lab III 0 hours

Applied Army ROTC training. Taken concurrently with 3000-level MIL courses.

MIL-3010,3020 Military Science III

3 hours/sem

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the sixweek Advanced Camp in the summer of the junior year. Subjects covered are drill, leadership, marksmanship training, squad and team tactics with leadership exercises and advanced navigation training on day and night courses. Students learn to inspect soldiers' equipment, draft and issue orders, and plan and conduct training as a small-unit leader. Prerequisite: approval of professor of military science.

MIL-4000 Leadership Lab IV

0 hours

Applied Army ROTC training. Taken concurrently with 4000-level MIL courses.

MIL-4010,4020 Military Science IV

3 hours/sem

The senior year of military science provides senior cadets with advanced managerial leadership skills. Army staff procedures and functions are taught. These staff skills are put into practice through the assignment of seniors to major leadership positions within the cadet battalion. Seniors learn to command, lead, manage, plan, and supervise as they prepare for commissioning as officers in the United States Army. Senior students will receive instruction on military professionalism and ethics. Prerequisite: approval of professor of military science.

Department of Music and Worship Course Descriptions

Conducting (CDMU)

CDMU-2600 Introduction to Conducting-Fa

2 hours

The basic technique of the conductor's art: score reading, conducting patterns, interpreting, cueing, rehearsal procedures, and stylistic conceptualization. Prerequisite: THMU-1210 Music Theory I or permission of instructor. (Fee: \$20)

CDMU-3610 Choral Conducting-Sp

2 hours

Concentrated focus upon the choral conductor's stylistic gestures and verbal communication as they impact ensemble intonation, diction, tone, blend, and balance. This course emphasizes diagnostic listening, problem solving, observation of professional conductors, the conducting of larger choral/ instrumental works, and student rehearsal of various music department choral ensembles. Prerequisite: CDMU-2600 Introduction to Conducting or permission of instructor. (Fee: \$20) 2 hours

CDMU-3620 Instrumental Conducting-Sp

Designed to take the student beyond basic conducting techniques and present the special characteristics of instrumental conducting. The student will develop skills in rehearsal technique and score analysis while learning to conceptualize musical fundamentals such as tone, intonation, balance, rhythmic ensemble, and interpretation. *Prerequisite: CDMU-2600* Introduction to Conducting or permission of instructor.

CDMU-3630 Choral Methods-Fa

2 hours

Further development of conducting skills with special emphasis placed upon the organization of a comprehensive school choral curriculum. Rehearsal strategies and vocal techniques are discussed and practiced as they apply to choirs of all levels and voicings. Prerequisite: CDMU-2600 Introduction to Conducting or permission of the instructor. (Fee: \$20)

CDMU-4990 Independent Study in Conducting

Independent and intensive study in a particular area of conducting for individual students who demonstrate special interests and ability. Prerequisite: CDMU-3620 Instrumental Conducting; CDMU-3630 Choral Methods; or equivalent.

Music Class Studies (CLMU)

CLMU-1170 Diction for Singers I-Fa

2 hours

Students will master the rules of pronouncing Italian and Latin language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing Italian and Latin language song texts.

CLMU-1180 Diction for Singers II-Sp

Students will master the rules of pronouncing German and French language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing German and French language song texts.

CLMU-1810 Piano Class I-Fa

2 hours

Group instruction in piano fundamentals. Required for music majors who are unable to pass the piano proficiency. Open to other individuals with permission of the instructor. (Fee: \$30)

Continued group instruction in piano fundamentals and

CLMU-1820 Piano Class II-Sp

2 hours

repertoire. Prerequisite: CLMU-1810 Piano Class I. (Fee: \$30) CLMU-1860 Voice Class-Fa 1 hour

Group instruction in basic vocal technique and repertoire. Enrollment open to any student not majoring in voice. Repeatable. (odd years)

CLMU-2200 Music Literature: Special Topics 1-2 hours

A survey of the history and literature for the specified instrument.

CLMU-2210 Brass Literature-Fa

1 hour

A survey of brass literature covering all historical periods but emphasizing the chamber music genre. (even years)

CLMU-2220 Percussion Literature-Sp

1 hour

A survey of literature for percussion with special emphasis on the 20th century. Total percussion will be considered. (even years) CLMU-2230 String Literature-Sp 1 hour

A survey of string literature covering all historical periods but emphasizing the chamber music genre. (even years)

CLMU-2240 Woodwind Literature-Fa

1 hour

The study of the history and literature of the woodwind instruments (flute, oboe, clarinet, bassoon). (odd years)

CLMU-2300 Keyboard Literature—Sp

A survey of music for the piano and its precursors, covering the period from 1600 to the present, with a focus on the works which have come to form the core of the repertoire. (odd years)

CLMU-2310 Collaborative Piano-Fa, Sp

1 hour

Supervised piano accompanying experience. The student is assigned to work with one vocalist or instrumentalist for the semester and will prepare music for studio lessons as well as public performances. 0 hours

CLMU-2750 Performance Seminar-Fa, Sp

A once-per-semester seminar, that may take the form of a lecture, masterclass, or recital.

CLMU-2760 Performance Portfolio-Fa, Sp

0 hours

The student will assemble and present materials, that demonstrate performance achievement and professional awareness. The portfolio may include documentation of performances, masterclass, and repertoire.

CLMU-2800 Introduction to Music Composition-Fa 2 hours

Designed to introduce the student to the foundational concepts of musical composition. Students will gain facility with the tools of composition and will begin composing in various styles.

CLMU-2850 Composition Seminar-Fa, Sp

0 hours

A once-per-semester seminar designed to expose students to aspects of the compositional art that are not part of general course material. The seminar may take the form of a lecture, masterclass, or recital.

CLMU-2860 Composition Portfolio-Fa

0 hours

3 hours

Designed as an opportunity for students to receive guidance and feedback on preparing, assembling, and presenting a composition portfolio. The portfolio may include documentation of performances, masterclasses, and completed compositions.

CLMU-3110 Choral Repertoire—Fa 2 hours

This course exposes the student to exemplary repertoire for choirs of all levels and voicings. Most class sessions are devoted to sight-reading and discussing a large number of choral pieces as well as evaluative listening to recordings. Open to all music majors, minors, and to all CU ensemble members. For music majors, it is recommended that this course be taken concurrently with CDMU-3630 Choral Methods.

CLMU-3120 Vocal Literature—Sp

Survey of literature for the solo voice from the onset of Thoroughbass to the 21st century. Includes major repertoire in Italian, French, English, and German, along with important works in other languages. Analysis of song and aria scores will be complemented by recordings and live performance. Crosslisted with HLMU. (even years)

CLMU-3130 Opera and Oratorio Literature—Sp 3 hours

Survey of opera and oratorio literature from Monteverdi's *Orfeo* and Carissimi's *Jephte* to works of the 21st centry. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. Crosslisted with HLMU. **CLMU-3410 Traditional Irish Music**—Fa **2 hours**

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with HLMU-3410 Traditional Irish Music. *Prerequisite: permission of instructor.* (Fee: \$30)

General Music (GMUS)

GMUS-1000 Music Philosophy and Aesthetics-Fa

Philosophical and scriptural foundation for the Christian concepts of musical creativity, musical worship, and stewardship. Understanding the unique teacher-student relationship in music. A first attempt at codifying a coherent, personal, Christian philosophy of music.

GMUS-1030 Recital and Program Attendance–Fa, Sp **0 hours**Music majors and minors must attend a prescribed number

of programs and recitals each semester. Majors must enroll each semester. For a music minor, students must enroll for two consecutive semesters.

GMUS-4980 Special Topics — **General Music**—Fa, Sp**1–3 hours** Study of selected topics in music.

Music History (HLMU)

HLMU-2100

ıra_Fa

2 hours

Jazz History: Music of the Multi-Culture-Fa

Survey of jazz as an American art form, as a representative of both Western and non-Western practices, that now make up our American multi-culture, and as the primary vehicle for the realization of improvisation within that multi-culture. Acquaints the student of music with jazz styles and the major figures in jazz history and assists in the discovery of jazz influence upon all other American music, both classical and popular. *Prerequisites: THMU-1220 Music Theory II; THMU-1320 Aural Skills II.* (even years)

HLMU-2310 Introduction to Music Literature-Sp,Su 3 hours

Study of music by genre and chronology. Focuses on art traditions in music. Students become familiar with a wide variety of music literature and learn to listen analytically. Serves as the introductory music history course for sophomore music majors.

HLMU-3120 Vocal Literature-Sp

3 hours

Survey of literature for the solo voice from the onset of thoroughbass to the 21st century. Includes major repertoire in Italian, French, English, and German, along with important works in other languages. Analysis of song and aria scores will be complemented by recordings and live performance. Crosslisted with CLMU. (even years)

HLMU-3130 Opera and Oratorio Literature-Sp 3 hours

Survey of opera and oratorio literature from Monteverdi's *Orfeo* and Carissimi's *Jephte* to works of the 21st centry. Analysis of scores will be complemented by recordings, live performance, libretti studies, and historical background. (odd years) Crosslisted with CLMU.

HLMU-3310 Music History I-Fa, Su

3 hours

Study of the music of Western civilization traced from its primitive sources and giving special attention to Medieval, Renaissance, Baroque, and Classical music as demonstrated through the vocal and instrumental music of composers from each period. *Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.*

HLMU-3320 Music History II-Sp, Su

3 hours

Study of the music of Western civilization traced from 1800 to the present time, giving special attention to romantic, 20th century, and contemporary music as demonstrated through the vocal and instrumental music of composers from each period. *Prerequisites: HLMU-2310 Introduction to Music Literature; THMU-2210 Music Theory III; permission of instructor.*

HLMU-3400 Global Music-Fa

3 hours

A socio-anthropological approach to the study of the world's music. Surveying music of cultures of Africa, the Americas, and Asia as well as European folk music. Music traditions are studied from a perspective that emphasizes music as an integral part of society and culture, helping students discover the influence of culture on music, and the subsequent role of music within the culture. (Fee: \$50) (odd years)

HLMU-3410 Traditional Irish Music-Fa

2 hours

3 hours

This course introduces students to the practice of traditional Irish music through study of primary tune forms, experience of the social context of Irish music-making, and acquaintance with leading performers within the tradition. The class culminates in an Irish music festival held at a local coffee shop. Crosslisted with CLMU-3410 Traditional Irish Music. *Prerequisite: permission of instructor.* (Fee: \$30)

HLMU-3420 Music of the Church–Fa 3 hours

An in-depth review of the past, present, and future of music in the church and its use in worship. The course provides tools that students can use to evaluate the quality and usefulness of various musical styles within the context of different worship traditions. (odd years)

HLMU-3910 Writing and Research in Music I 1 hour

This is the first of two courses designed to develop the writing and research skills in music that are necessary for professional success. Prerequisite: Junior status or permission of instructor.

HLMU-4910 Writing and Research in Music II 1 hou

This is the second of two courses designed to develop the writing and research skills in music that are necessary for professional success. Prerequisite: HLMU-3910 Writing and Research in Music I or permission of instructor.

HLMU-4110 Choral Literature-Sp

An historical overview of choral music from 1400 to the present. Attention is given to primary genres of choral composition: motet, madrigal, mass, anthem, oratorio, passion, cantata, and orchestral works with choir. This course will serve as an elective for majors in choral music education, church music, vocal performance, and composition. (even years)

HLMU-4990 Independent Study in Music History 1-3 hours

Independent and intensive study in a particular area of music history for individual students who demonstrate special interests and abilities. *Prerequisites: HLMU-3310, 3320 Music History I and II.*

HLMU-4980 Special Topics — **Music History**—Fa, Sp **1–3 hours**Study of selected topics in music. *Prerequisites: HLMU-3310 Music History I and HLMU-3320 Music History II or permission of instructor.*

Humanities (HUM)

HUM-1400 Introduction to the Humanities–Fa, Sp **3 hours**

Historical study of the relationship of music, art, and literature to the dominant cultural, religious, and philosophical trends and their relationship to Christian theism.

HUM-2430 Enjoyment of Music-Fa 3 hours

This course is designed to present a study of music by genre and chronology. It will focus on the art traditions in music. Students will become familiar with a wide variety of music literature and will learn to listen analytically. The primary goal will be to bring students as far as possible along the road to being music lovers. (Fee: \$50) (even years)

HUM-4980 Special Topics – Humanities–Fa, Sp Study of selected topics in humanities.

Keyboard Pedagogy (KPMU)

KPMU-2010 Keyboard Pedagogy I-Fa

Study of techniques and literature for the teaching of beginning and intermediate piano students both in private and class settings. Includes study of graded teaching materials and participation in a supervised teaching setting. *Prerequisites: THMU-1210,1220 Music Theory I and II; THMU1310,1320 Aural Skills I and II.*

KPMU-2020 Keyboard Pedagogy II-Sp 3 hours

Discussion of pedagogical problems involving intermediate students; evaluations of piano literature and investigation of specific aspects of piano pedagogy through readings and discussion. Survey of piano literature and its predecessors—clavichord, harpsichord, and pianoforte—from the early English virginal music to the present time. *Prerequisite: KPMU-2010 Keyboard Pedagogy I.*

KPMU-3110, 3120 Directed Teaching—Fa, Sp 1 hour each

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.* (Fee: \$50)

KPMU-4110, 4120 Directed Teaching—Fa, Sp 2 hours each

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I and II.* (Fee: \$50)

KPMU-3150 Keyboard Pedagogy Seminar I–Fa 2 hours

Designed to develop critical and creative teaching approaches for students of varying personality and learning styles with application to theory, technique, and music concepts needed by primary and elementary-level piano students in both private and group settings. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-3160 Keyboard Pedagogy Seminar II-Sp 2 hours

Survey of representative Baroque through 20th century literature for the advanced pre-college pianist. The course is enhanced with videos, required readings, and discussion relative to topics such as performance anxiety, technique, and performance style. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-4150 Keyboard Pedagogy Seminar III-Fa 2 hours

Pedagogical methods and techniques using electronic studio in-class teaching. The course is enhanced with videos, required readings, and discussion relative to group teaching. *Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I and II.*

KPMU-4160 Keyboard Pedagogy Seminar IV-Sp 2 hour

Continued application of various learning styles with application to developing musical performance in intermediate and advanced-level piano students in both private and group settings. The course also includes an introduction to business practices for the independent piano teacher.

Music Education (MUED)

MUED-1000 NAfME-Fa. Sp

0 hours

The National Association for Music Education exists to advance music education by encouraging the study and making of music by all. NAfME is the primary professional organization for music educators. The campus chapter provides informative seminars including a focus on Value Added Assessment along with service activities. NAfME offers music educators a connection to the professional world of music education and increased understanding of the role of NAfME in the field of music teaching. All music education majors are required to enroll in this course as part of their professional development and career preparation. A minimum of 8 semesters of satisfactory participation is required. (Fee: \$60)

MUED-2730 2 hours

Wind and Percussion Methods for Music Educators-Sp

Class instruction in basic playing and teaching of all band instruments. Required for the vocal major pursuing the Bachelor of Music Education degree and instrumental performance majors; open to others by permission of the instructor. (Fee: \$40) (even years)

MUED-2870 Brass Methods for Music Educators-Fa 2 hours

Class instruction in basic playing and teaching of the brass instruments – trumpet, horn, trombone, baritone, tuba. (Fee: \$40) (even years)

MUED-2900 Guitar Methods for Music Educators-Sp 1 hour

Class instruction in basic playing and teaching of guitar.

Required of music education majors pursuing the choral track.

Open to other students by permission of instructor. (Fee: \$40)

MUED-2910

2 hours

Woodwind Methods for Music Educators-Sp

Class instruction in basic playing and teaching of the woodwind instruments – flute, oboe, clarinet, saxophone, and bassoon. (Fee: \$40) (even years)

MUED-2930 String Methods for Music Educators-Fa 2 hours

Class instruction in basic playing and teaching of the string instruments – violin, viola, cello, string bass. (Fee: \$40) (odd vears)

MUED-2950 2 hours

Percussion Methods for Music Educators-Sp

Class instruction in basic techniques, playing and teaching of the snare drum, tympani, and other tuned percussion instruments. (Fee: \$40) (odd years)

MUED-3710 Music for Early Childhood–Fa 3 hours

Music literature and teaching aids for children, including basic music theory, development of skills on keyboard, classroom instruments, and voice; music in the curriculum; and teaching music concepts. (Fee: \$30)

MUED-3720 Music for Adolescent/Young Adults-Sp 3 hours

The history of and basis for music in the secondary curriculum, administration of the music program, methods of teaching music in groups, and sources of materials for instruction. (Fee: \$30)

MUED-3730 Vocal Pedagogy-Fa 2 hours

Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production and pedagogical approaches. *Prerequisite: CLMU-1860 Voice Class or completion of sophomore vocal review.*

3 hours

MUED-3750 Instrumental Pedagogy-Fa

2 hours

The study of techniques and literature for the teaching of wind, percussion, brass, and string students in the private studio. Investigation of studio teaching through readings, interaction and discussion. *Prerequisite: PLMU 1000 and 2000-levels.* (odd years)

MUED-3910 Instrumental Administration—Fa 3 hou

A course designed to present the philosophy, learning process, and organizational problems associated with beginning, intermediate, and advanced bands. Along with classroom instruction, students will be involved in marching band field experiences and hands-on instruction in the basic repair of band instruments. (Fee: \$50) (even years)

MUED-4990 1–3 hours

Independent Study in Music Education

Independent and intensive study in a particular area of music education for individual music education majors who demonstrate special interests and ability.

Music Performance (PFMU)

PFMU-3100 Piano Ensemble-Fa, Sp

0-1 hours

The Piano Ensemble is an organization of advanced pianists that meets weekly to perform duet and duo piano literature. The Ensemble performs publicly on a regular basis.

PFMU-3210 Jubilate-Fa, Sp

0-1 hours

Ministry team of 40 select voices; open to all students by audition. Repertoire is selected from a wide spectrum of musical styles in evangelical traditions. Meets twice a week. Annual tour spring semester.

PFMU-3220 Worship Ensemble–Fa, Sp 0–1 hours

Ministry team of 8–10 singers, instrumentalists, and technicians; open to all students by audition. Repertoire is contemporary Christian and praise and worship music. Group will tour on behalf of the University throughout the school year and during breaks. *Prerequisite: admission by audition only.*

PFMU-3650 Chamber Ensemble–Fa, Sp 0–1 hours

The performance of representative literature in a variety of instrumental and vocal settings. Groups are normally student-formed and faculty-led and can be either homogenous (all strings, all brass, etc.) or heterogeneous. NOTE: An instructor must be designated for a group before any of its members register for this course. *Prerequisites: permission of instructor; approval of the*

PFMU-3800 Concert Chorale–Fa, Sp 0–1 hours

The Concert Chorale is a group of 60 select voices. Repertoire is chosen from a wide spectrum of musical styles, including choral masterpieces, sacred classics, anthems, spirituals, and tasteful contemporary works. Numerous concerts are presented each year on campus as well as in churches, schools, and other venues.

PFMU-3820 Men's Glee Club-Fa, Sp 0-1 hours

The Men's Glee Club has a membership of 50 voices, selected by audition. Literature includes traditional sacred and secular music from the Renaissance throughout the 20th century. Several concerts are presented each year on campus as well as in churches, schools, and other venues.

PFMU-3840 Women's Choir-Fa, Sp 0-1 hours

The Women's Choir consists of 50 treble voices, selected by audition. Repertoire embraces all historical periods and styles with performances on campus, in schools, in churches, and in civic meetings.

PFMU-3850 Opera Ensemble-Fa 0-1 hours

The coaching, staging, and performance of operatic literature in scenes, recitals, or full-scale productions.

PFMU-3880 Brass Choir–Fa, Sp 0–1 hours

The Brass Choir of select instrumentation consists of 20 to 25 members. It serves the University and its constituency by performing concerts featuring the highest quality brass choir literature. Major concerts are performed each semester.

PFMU-3940 University Orchestra-Fa, Sp

0-1 hours

The Orchestra is composed of string, wind, brass, and percussion players selected by audition. The group performs challenging, high-quality literature in concerts on campus and has opportunities to minister in local churches.

PFMU-3970 Wind Symphony-Fa, Sp

0–1 hour

The wind symphony is composed of 50–60 members, selected by audition. The ensemble performs a wide variety of wind literature and participates actively in the commissioning and performance of new music. The ensemble presents two concerts per semester and performs additional concerts and events both on and off campus.

PFMU-3980 Jazz Band-Fa, Sp

0-1 hours

The Jazz Band has a membership of approximately 16 musicians, selected by audition. The group performs Big Band music and contemporary jazz standards. The band is active in both campus and off-campus activities.

Music Private Study (PLMU)

Private instruction for credit in piano, voice, guitar, orchestral and band instruments, and composition is available to all music majors. Students with majors outside of the Department of Music and Worship need special approval from the department Chair.

Credit in performance lessons is based on a minimum of six hours of practice and one half-hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based on satisfactory progress as determined each semester by the instructor. (Fees: private lesson fee \$300 and practice room fee \$100 per credit hour)

PLMU-1000, 2000, 3000, 4000 Organ	1-2 hours
PLMU-1100, 2100, 3100, 4100 Piano	1-2 hours
PLMU-1200, 2200, 3200, 4200 Voice	1-2 hours
PLMU-1300, 2300, 3300, 4300 Trumpet	1-2 hours
PLMU-1310, 2310, 3310, 4310 Trombone/Baritone	Horn

	1–2 hours
PLMU-1320, 2320, 3320, 4320 French Horn	1-2 hours
PLMU-1330, 2330, 3330, 4330 Tuba	1-2 hours
PLMU-1400, 2400, 3400, 4400 Clarinet	1-2 hours
PLMU-1410, 2410, 3410, 4410 Flute	1-2 hours
PLMU-1420, 2420, 3420, 4420 Saxophone	1-2 hours
PLMU-1430, 2430, 3430, 4430 Oboe	1-2 hours
PLMU-1440, 2440, 3440, 4440 Bassoon	1-2 hours
PLMU-1500, 2500, 3500, 4500 Violin	1-2 hours
PLMU-1510, 2510, 3510, 4510 Viola	1-2 hours
PLMU-1520, 2520, 3520, 4520 Cello	1-2 hours
PLMU-1530, 2530, 3530, 4530 Bass	1-2 hours
PLMU-1550, 2550, 3550, 4550 Harp	1-2 hours
PLMU-1600, 2600, 3600, 4600 Guitar	1–2 hours
PLMU-1700, 2700, 3700, 4700 Percussion	1-2 hours
PLMU-1800 Private Lessons in Composition-Fa, Sp	o 1 hour
PLMU-1810, 2810, 3810, 4810	1-2 hours
Contemporary Piano-Fa, Sp	

Prerequisites: music or worship student, or instructor approval.

PLMU-1820, 2820, 3820, 4820

1–2 hours

Contemporary Voice-Fa, Sp

Prerequisites: music or worship student, or instructor approval.

PLMU-1830, 2830, 3830, 4830 1–2 hours

Contemporary Guitar-Fa, Sp

Prerequisites: music or worship student, or instructor approval.

PLMU-2800, 3800, 4800 Music Composition 1–2 hours PLMU-3900 Junior Recital 1 hour

Music major performance emphasis students should register for this course the semester they are ready to present their junior recital. Program is presented in a half recital format. (Fee: \$50)

PLMU-3920 Junior Composition Project-Fa, Sp

1 hour

The culminating project for juniors majoring in musical compositon. This project is akin to a half-recital and will consist of a substantial compositon for a large ensemble. *Prerequisite: junior status. Corequisite: PLMU-3800 Private Lessons in Composition.*

PLMU-4900 Senior Recital

1 hou

Music majors should register for this course the semester in which their recitals are to be presented. Capstone course. (Fee: \$50)

PLMU-4920 Senior Project-Sp

1 hour

The capstone project for the B.A. in Music degree. Students may register for this course at the same time as Senior Seminar. (Fee: \$75)

Music Theory (THMU)

THMU-1010 2 hours

Introduction to Music Theory and Aural Skills-Fa

An intensive study of the rudiments of music: notation, pitch, and rhythm. These elements will be explored with aural and written components. These credits may not be substituted for any other music course. (Fee: \$30)

THMU-1210 Music Theory I-Fa

3 hours

A foundational study of the essential building blocks of music including chord analysis, harmony, voice leading, and form. *Prerequisite: THMU-1010 Introduction to Theory or competency equivalency as shown by entrance examination.* (Fee: \$30)

THMU-1220 Music Theory II-Sp

3 hours

A continuation of Theory I with an in-depth exploration of part-writing, seventh chords, and elementary chromaticism. *Prerequisite: THMU-1210 Music Theory I.* (Fee: \$30)

THMU-1250 Contemporary Musicianship I-Sp

2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Introduction to Music Theory and Aural Skills. *Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills.* (Fee: \$30)

THMU-1310 Aural Skills I-Fa

2 hours

Introduction to techniques of basic aural musicianship, including singing, recognizing, and dictating intervals and chords within the diatonic major and minor systems by "guide tone" numeric scale degree method. *Corequisite: THMU-1210 Music Theory I.*

THMU-1320 Aural Skills II-Sp

2 hours

A continuation of Aural Skills I with an in-depth exploration of melodic and harmonic dictation along with an introduction to the techniques of transcribing select popular music recordings by ear. *Prerequisite: THMU 1310 Aural Skills I.*

THMU-2140 Functional Keyboard Skills-Fa

1 hour

Students will develop skills in harmonization at sight, transposition, playing by ear, and other keyboard harmony skills specifically designed to meet the piano proficiency requirements. *Prerequisite: permission of the instructor.*

THMU-2210 Music Theory III-Fa

3 hours

Critical study and analysis of the chromatic harmony, counterpoint and formal structure of 18th century music. Creative work in traditional compositional forms.

THMU-2220 Music Theory IV-Sp

3 hours

Critical study and analysis of the chromatic harmony and formal structure of 19th-century music. Analytical study of 20th-century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.

THMU-2250 Contemporary Musicianship II-Fa 2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship I. *Prerequisites: THMU-1250 Contemporary Musicianship I.* (Fee: \$30)

THMU-2260 Contemporary Musicianship III-Sp

2 hours

This course is designed to help students understand the structure of contemporary music. The class will also continue to develop written and aural musicianship studied in Contemporary Musicianship II. Prerequisites: THMU 2250 Contemporary Musicianship II. (Fee: \$30)

THMU-2310 Aural Skills III-Fa

2 hours

Intermediate aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by including syncopated and irregular rhythmic patterns as well as four-voice harmonic dictation, including more advanced chromatic language. Prerequisite: THMU-1320 Aural Skills II. Corequisite: THMU-2210 Music Theory III.

THMU-2320 Aural Skills IV-Sp

2 hours

Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems. More advanced melodic, rhythmic, and harmonic dictation, including all tonal language, as well as some extended chromatic possibilities and introduction to the non-tonal tendencies of the 20th century. Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV.

THMU-3120 Jazz Theory and Improvisation I–Fa 2 hour

This course will introduce students to basic concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will learn to improvise over jazz standards. *Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor*

THMU-3130 Jazz Theory and Improvisation II-Sp 2 hours

This course will introduce students to advanced concepts of jazz theory and improvisation. Material will include harmonic structure and appropriate scales choice for improvisation. Students will further develop the ability to improvise over jazz standards. Prerequisites: THMU-2210 Music Theory III, THMU-2310 Aural Skills III, and permission of instructor

THMU-4100 Counterpoint-Sp

3 hours

A survey of polyphonic music from the 18th to the 21st centuries including the analysis and composition of species counterpoint examples, canon, a fugal exposition, and a modern composition. Students will especially focus upon contrapuntal techniques utilized in contemporary choral and instrumental music. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (odd years)

THMU-4110 Form and Analysis-Sp

3 nour

The analysis of musical examples illustrating the primary structural concepts operative within compositions dating from 1600 to the present. Emphasis will be placed upon the relationship between musical form and performance. Using varied analytical techniques, students will particularly focus upon repertoire composed for their performance instrument. *Prerequisites: THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV.* (even years)

THMU-4130 Orchestration-Fa

2 hours

Designed to develop skills in scoring music for various instrumental groups. *Prerequisite: THMU-2220 Music Theory IV.* (Fee: \$30) (odd years)

THMU-4140 Choral Arranging—Fa

2 hours

Study of arranging for the choral medium. Includes principles of arranging for children, youth, and adult choirs. Special attention given to arranging for large and small choral ensembles with a variety of forms of accompaniment. *Prerequisite: THMU-2220 Music Theory IV or permission of instructor.* (Fee: \$30) (even years)

THMU-4990 1–3 hours

Independent Study in Theory/Composition

Independent and intensive study in a particular area of music theory or composition for individual students who demonstrate special interests and ability. Repeatable up to three credits.

Music Technology (TYMU)

TYMU-2510

3 hours

Introduction to Digital Music Production-Fa

This course is a survey of music technology tools and techniques including an introduction to the digital audio workstation, digital audio editing, MIDI editing and programming, and virtual instruments. *Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills or successful completion of the Music Theory Entrance Exam; or permission of the instructor.* (Fee: \$45) (even years)

TYMU-2520 Music Production Techniques-Sp 3 hours

This course focuses on laptop recording and editing, giving students skills necessary to record and mix their own arrangements and compositions. Students will use a guerrilla recording approach to create singles and albums. *Prerequisites: TYMU-2510 Introduction to Digital Music Production; or permission of the instructor.* (Fee: \$45) (even years)

TYMU-2251 Music Technology-Fa

3 hours

This course focuses on a variety of synthesis techniques using Logic Pro's various synthesizers as well as the software synthesizer, Omnisphere. Additionally, this course will introduce students to live performance applications with Mainstage. Prerequisites: TYMU-2520 Music Production Techniques; or permission of the instructor. (Fee: \$45) (odd years)

TYMU-3520 Scoring for Digital Media-Sp

3 hours

1 hour

This course focuses on film-scoring techniques using live instruments and electronics. Students will create music for a variety of media including film, websites, and radio. *Prerequisites: TYMU-2251 Music Technology; or permission of the instructor.* (Fee: \$45) (odd years)

Worship (WSHP)

WSHP-1010 Introduction to Worship Ministry-Fa

This course is designed to be an introductory course to the field of worship ministry. It will provide the student with an examination of current practices in worship ministry, an overview of the worship degree at Cedarville, the character of a worshipper, the role of a worship leader, and career opportunities.

WSHP-1020 Introduction to Worship Technology-Sp 2 hours

This course is designed to be an introductory course to the field of worship technology. It will explore the basic technologies and concepts that are needed in worship ministry today, including audio, graphics, video, copyright, and ministry team building. (Fee: \$50)

WSHP-2060 Music and the Arts in Worship-Fa 3 hours

An introduction to and overview of the philosophy and history of church music ministry in the evangelical tradition, including the biblical foundation of worship and music, the philosophical foundations for various worship approaches, the application of biblical principles to past and present traditions, and biblical, cultural, and practical principles for worship and praise ministries. WSHP-2100 Worship Forum-Fa, Sp 0 hour

A once-per-semester seminar designed to expose students to various aspects of worship ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with CHMU-2100 Church Music Seminar. *Prerequisites: worship major or permission of instructor.*

WSHP-2200 Worship Field Experience—Fa, Sp, Su 1 hour

Initial field experience in a local church or parachurch organization. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by an on-site staff member. *Prerequisites: worship major or permission of instructor.*

WSHP-3100 Worship Practicum-Fa, Sp

0-1 hours

This course is designed to help students refine their worship leadership abilities. Students will be given in-class and out-of-class worship leading assignments. Current trends and advanced worship leading topics will also be discussed. *Prerequisites: junior-level status; church music or worship major; or permission of instructor.*

WSHP-3200 Worship Administration-Sp.

3 hours

This course will study various methods of organizing and administering the total worship program of the church. This course introduces materials and methods for teaching and supervising ensembles. Students will examine, staff, finances, buildings, public relations, and leadership skills necessary to successfully fulfill one's calling.

WSHP-4900 Worship Internship-Fa, Sp

3-9 hours

Intensive field experience in worship leadership. Place of service is determined by student interest, recommendation of supervising faculty, and by sponsoring organization (typically a local church congregation). Students must apply for internships and receive endorsement from the advisor and the chair of the department one academic semester before period of service and prior to registering. Students should check with their advisor for complete internship requirements. Repeatable up to nine total hours. *Prerequisites: senior-level standing as a worship major, approval by the advisor and department Chair.*

WSHP-4980 Special Topics in Worship

1-3 hours

This is a workshop for students interested in worship leadership and will be offered on a periodic basis depending on instructor availability and student interest. Contact hours will determine the amount of credit given. *Prerequisite: topic dependent.*

School of Nursing Course Descriptions

Nursing (NSG)

NSG-1000 Member of Nursing Profession-Fa, Sp, Su 2 hours

An introduction to and application of professional nursing roles within the U.S. and global healthcare systems. Includes discussion of ways of thinking, professional ethics, Christian values, and factors that motivate and influence Christian nurses. As members of the profession, students are introduced to the use of information management skills, concepts of care, and the culture of the profession from a biblical and Christian framework. (Fee: \$150) NSG-1050 Health Promotion and Wellness—Fa, Sp, Su 3 hours

Through course content, theories of health and wellness are explored as foundational concepts of the professional nursing role. Students are introduced to the principles of nutrition, culture and diversity, development across the lifespan, and multi-dimensional nursing care. The development of a biblical worldview related to health and wholeness is emphasized. *Prerequisite: NSG-1000 Member of Nursing Profession or by permission of instructor; corequisite: NSG-1055 Experiences in Health Promotion.* (Fee: \$150)

NSG-1055 Experiences in Health Promotion–Sp, Su 1 hour

Clinical and laboratory experiences provide the student with opportunities to apply concepts of health promotion, wellness, nutrition, communication, hygiene, sleep, exercise, and safety to the care of patients and families. *Prerequisites: NSG-1000 Member of Nursing Profession; corequisite: NSG-1050 Health Promotion and Wellness; or permission of instructor.* (Fee \$150)

NSG-2000 Roles in Disease Prevention-Fa, Su 4 hours

Principles of disease prevention are explored as foundational concepts of the professional role, emphasizing safety, communication, infection control, nutrition, stress, coping, anxiety, and grief. The course focuses on the development of systematic approaches to individual health and physical assessment, and documentation of findings using appropriate technology in both laboratory and clinical settings. *Prerequisite: GBIO-2010 Human Anatomy and Physiology or by permission of instructor.* (Fee: \$300)

NSG-2050 Roles in Disease Management–Fa, Sp 4 hours

An introduction to the concepts of pathophysiology and disease management as they are used to provide nursing care to patients across the lifespan. Focus is on the use of a broad range of psychomotor skills required to intervene on behalf of clients with pathophysiologic imbalances in health. Students begin to develop the professional role of provider of care within the contexts of disease, ethics, diversity, evidence, personal values, and critical reasoning both in the laboratory and clinical settings. Prerequisite: GBIO-2210 Principles of Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; or by permission of instructor. (Fee: \$300)

NSG-2200 Cross-Cultural Interactions-Sp

1 hour

Cross-cultural interactions are planned and purposeful experiences designed to gain information and understanding of missions and/or cross-cultural nursing. *Prerequisite: permission of instructor.*

NSG-2800 Special Topics in Nursing-Fa, Sp 1–3 hours

Selected topics in nursing at the 2000-level that will complement existing 1000- and 2000-level courses to expose students to topics not taught in previous course work. The specifics of the course are determined by the faculty of the School of Nursing at the request of the student. *Prerequisites: permission of associate dean for undergraduate nursing program and instructor.* (Fee: \$50 if lab component)

NSG-3000 Care of III Adults–Fa, Sp, Su 6 hours

Focus is on common physiological imbalances of adults and nursing care required to restore or promote health balances across the five dimensions. Critical thinking, assessment, and communication skills consistent with biblical principles will be utilized to manage information and provide culturally appropriate care. Students will demonstrate competency in technical skills and the professional nursing role within the clinical setting. *Prerequisite: Junior nursing major status.* (Fee: \$300)

NSG-3010 Care of Women and Newborns–Fa, Sp **6 hour**

Course content and clinical experiences provide the student with the opportunity to facilitate the health balance of women and the childbearing family across the five dimensions. Students interact to support family members in their changing roles as they manage resources in response to new demands. Cultural implications for care of the childbearing family are presented. *Prerequisite: Junior nursing major status.* (Fee: \$300)

NSG-3030 Care of Children–Fa, Sp 6 hours

Focus is on common physiological imbalances of infants, children, and adolescents and the nursing care required to restore or promote physical, emotional, intellectual, social, and spiritual health. Special emphasis is given to the application of growth and developmental theories in the provision of developmentally appropriate care to the pediatric population. Students gain increasing independence in professional nursing role development as providers and coordinators of care. *Prerequisite: Junior nursing major status*. (Fee: \$300)

NSG-3050 6 hours

Behavioral and Mental Healthcare-Fa, Sp, Su

Introduces aspects of developing therapeutic relationships involving one-to-one and group interactions to achieve client-focused and professional goals. Focus is on effective communication as a member of the profession and provider of care. Using a Christian worldview, students analyze frameworks for promoting and restoring healthy relationships. Students participate in integration of care with other members of the interdisciplinary healthcare team in a variety of settings. Emphasis is on imbalances in thinking, emotions, and behaviors that interfere with individual and group processes and require external intervention to promote balance. *Prerequisite: PYCH-1600 General Psychology; Junior nursing major status.* (Fee: \$300)

NSG-3110 Pharmacology–Fa, Sp

3 hours

Pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of major drug categories are discussed as they are used to restore health balance. Special emphasis is given to the ways in which pharmacological agents may create new health demands. Nursing actions to prevent or minimize these demands are discussed. Prerequisites: GBIO-2210 Principles of Microbiology; CHEM-1000 Principles of Chemistry; GBIO-2015 Human Anatomy and Physiology II; NSG-2000 Roles in Disease Prevention; permission of instructor. (Fee: \$150)

NSG-3200 1–3 hours

Cross-Cultural Nursing Internship-Fa, Sp, Su

Students actively participate in health-related activities in a facility established to provide care for persons in cultures different from theirs. The length of time involved in the internship may vary according to the student needs. *Prerequisites: NSG-3000 Care of III Adults; permission of instructor.*

NSG-3800 Nursing Externship—Su

1-4 hours

The focus is on exploration of nursing roles within precepted clinical experiences. Students apply critical thinking to promote and restore health using the Cedarville University School of Nursing Curricular Model. Emphasis is given to application of biblical truth in healthcare delivery and in addressing common ethical and legal issues encountered by nurses. *Prerequisites: Completion of all junior-level nursing courses.*

NSG-3930 3 h Nursing Research and Evidence-Based Practice—Fa, Sp

The research process is studied as an information management tool applied to the investigation of health balances and imbalances. Basic elements of the research process, including ethical issues, are discussed and applied to published nursing research and student proposals. *Prerequisites: Junior nursing major status*; *PYCH-2610 Statistics*. (Fee: \$150)

NSG-4000 Care of Populations–Fa

6 hours

Students focus on contemporary health issues of populations and communities using theoretical models of epidemiology, health promotion, primary healthcare, and public health practice. Students integrate knowledge from the health, social, and nursing sciences to population and community health nursing through targeted assessment, interventions, programs, and advocacy. *Prerequisite: senior nursing major status.* (Fee: \$300)

NSG-4020 Leadership and Management-Sp 6 hours

The focus is on the development of leadership and management knowledge and behaviors required for the baccalaureate prepared nurse. Special emphasis is given to the biblical framework for leadership and management. Simulated experiences in leadership labs provide opportunities to apply leadership and management principles and theories as providers, managers, and coordinators of nursing care. *Prerequisite: senior nursing major status*. (Fee: \$250)

1 hour

NSG-4030 Complex Care Management-Fa

6 hours

Focuses on the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is placed on the growth of personal and professional development with respect to biblical character qualities. Students assume professional nursing roles in a variety of critical care settings working under the supervision of faculty. Prerequisite: senior nursing major status. (Fee: \$300)

NSG-4060 Transition Into Practice—Sp 6 hours

Students assume professional nursing roles (member of profession, provider of care, and manger of care) working under the supervision of faculty, RN preceptors, clinical specialists, and/ or various levels of nurse managers in an assigned clinical area. Students work full time during the course following the preceptor's schedule and shift, including nights, weekends, and holidays. Prerequisite: completion of all other clinical nursing courses. (Fee:

NSG-4200 Culture and Health-Fa

Situations in which cross-cultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution. Prerequisite: junior/senior status or permission of instructor.

NSG-4800 Independent Study in Nursing-Fa, Sp 1-3 hours

Independent learning to secure an extensive background in a specialized area of nursing. May be repeated once. Prerequisite: signed contract between student and instructor in which work to be completed is described.

NSG-4950 Seminar in Nursing-Sp

Capstone course requiring synthesis of previous curricular programming. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. Students investigate the interplay among political, legal, economic, social, and ethical factors as it affects healthcare. Capstone course. Prerequisite: NSG-4030 Complex Care Management. Corequisite: NSG-4020 Leadership and Management, NSG-4060 Transition into Practice. (Fee: \$250)

School of Pharmacy Course Descriptions

Prepharmacy (PPHR)

PPHR-1011 1 hour Profession of Pharmacy-Introduction to Public Health-Sp

This course will introduce students to basic public health concepts as they relate to pharmacy. Emphasis will be on understanding the factors that impact community and behavioral health as well as how to effectively plan health promotion activities within a pharmacy setting.

PPHR-1012

1 hour

Profession of Pharmacy-History and Issues-Fa

The profession of pharmacy has a long history, believed to have started in the 9th century around Baghdad, then spreading to Europe as alchemy. This course will explore the history of pharmacy as it diverged from the practice of medicine and how this impacts the practice of pharmacy today and the future of the profession. Projects will include using historical models and identify trends in pharmacy in order to predict future avenues of the profession as well as ethical and legal dilemmas that may ensue. (Fee: \$20)

PPHR-2013

1 hour

Profession of Pharmacy-Careers I-Fa

The profession of pharmacy has experienced tremendous growth in recent history, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths facilitate discussions regarding their areas of expertise and field of practice. (Fee: \$50)

PPHR-2014

Profession of Pharmacy-Careers II-Sp

Focusing on careers different from those discussed in PPHR-2013, this course introduces the students to additional career options available to the pharmacist. Students will be exposed to current practicing pharmacists to gain a more personal perspective of pharmacy today. Practicing pharmacists within different career paths will facilitate discussions regarding their areas of expertise and field of practice. (Fee: \$50)

PPHR-3460 Advanced Physiology for Pharmacy-Sp

This course will address the structure and function of major organ systems of the human body. Organ systems covered include muscular, nervous, endocrine/reproductive, cardiovascular, respiratory, digestive, and renal. Prerequisites: GBIO-2010 Human Anatomy and Physiology I; GBIO-2015 Human Anatomy and Physiology II: or equivalent.

PPHR-4280 2 hours

Introduction to Health Behaviors and Beliefs

This course provides an introduction to concepts of patient health behaviors and cultural health beliefs. In the first half of the semester, students will examine the theories explaining health behaviors and complete in-class activities utilizing the theory to influence health behavior change. In the second half of the semester, students will examine health beliefs in cultures around the world and the implications of these beliefs with regard to modern healthcare systems.

Department of Psychology Course Descriptions

Psychology (PYCH)

PYCH-1000 Orientation to Psychology-Fa, Sp

1 hour

Acquaints the psychology major with various areas and issues in the field of psychology. Included will be its specialties, graduate school information, vocational opportunities, and legal and ethical matters. Should be taken during the freshman year.

PYCH-1010 Writing in APA-Fa, Sp

1 hour

Students in the course will learn and practice the standards of writing for the behavioral and social sciences as set forth by the American Psychological Association (APA) and the ethical standards for research and scholarship.

PYCH-1020

1 hour

Graduate School and Career Preparation-Fa, Sp

Information and guidance is provided for students to make informed decisions regarding postbaccalaureate career options in the human services. Students explore field options comparing non-graduate school, preprofessional jobs as well as professional career opportunities in psychology, counseling, and marriage and family therapy.

PYCH-1600 General Psychology-Fa, Sp, Su

Designed to provide a survey of modern scientific psychology. The course content centers on such topics as the foundations of psychology, development over the life span, how we experience the world, learning and thinking, motivation and emotion, personality, and social behavior. (Fee: \$5)

PYCH-1800 Cross-Cultural Psychology-Fa, Sp 3 hours

A survey course designed to make students sensitive to the impact of culture on life.

PYCH-2600 Human Development: Life Span-Fa, Sp

An analysis of the physiological, social, and psychological development of the individual from conception through the total life

PYCH-2610 Statistics-Fa, Sp, Su

3 hours

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in the behavioral sciences. Includes problems of measurement, measures of central tendency and dispersion, linear correlation, prediction, and simple tests of significance. (Fee: \$5)

PYCH-2640 Abnormal Psychology –Fa, Sp

Focus upon etiology, symptomatology, and prognosis of psychological disturbance. *Prerequisite: PYCH-1600 General Psychology.*

PYCH-2650 Learning and Memory–Fa, Sp 3 hours

A survey of theories in the field of learning and memory. Emphasis will be placed on the relationship between brain and behavior. Computer laboratory exercises are used to enhance understanding of the concepts presented. *Prerequisite: PYCH-1600 General Psychology.*

PYCH-2725 Child Development–Fa, Sp 2 ho

A study of the physiological, social, and spiritual growth of the child from conceptual through preadolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems.

PYCH-2735 Child-Adolescent Development-Fa, Sp 3 hours

A study of the physiological, social, and spiritual growth of the child from conceptual through adolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems.

PYCH-2750 The Parent and the Child 3 hours

Designed to explore the basic value requisites for effective family living. Basic concepts such as love, communication, and parental modeling will be stressed.

PYCH-2840 3 hours

Concepts of Chemical Dependency-Fa

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK.

PYCH-2850 Psychology of Adjustment 3 hours

The systematic process of applying psychological principles to everyday issues of human life. Biblical perspectives are integrated into problem-solving paradigms for the development of a psychologically healthy personality.

PYCH-3000 Addictions—Sp 3 hours

This course examines a variety of addictions, including alcohol, drugs, food, sex, gambling, computer games, Internet (including pornography), and codependency. The course will focus on causes, symptoms, diagnosis, treatment, and impact on society. Students will be challenged to develop a biblical perspective.

PYCH-3130 Intimate Relationships—Fa 3 hours

Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3380 Health Psychology-Sp 3 hours

Designed to investigate the research and theory of many disciplines to understand how psychology and health are interconnected. The focus is on the major topics and problem areas in health psychology. (Fee: \$5)

PYCH-3420 Human Sexuality-Sp

3 hours

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with SOC-3420 Human Sexuality. Prerequisite: PYCH-1600 General Psychology or permission of instructor.

PYCH-3520 Counseling and Mentoring Women-Fa, Sp 3 hours

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as BTCM.

PYCH-3610 3 hours

History and Systems of Psychology-Fa, Sp

Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.* (Fee: \$10)

PYCH-3620 Psychology and Christianity-Fa, Sp 3 hours

Students will examine the historical and contemporary discussions that have surrounded the boundaries and interface of psychology and Christianity.

PYCH-3630 Testing and Measurement–Fa

3 hours

Emphasis on measurement theory and its applications, including concepts of validity, reliability, and test construction and selection. *Prerequisite: PYCH-2610 Statistics.* (Fee: \$20)

PYCH-3640 3 hours

Industrial/Organizational Psychology-Sp

Psychology applied to the work world. Emphasis is on methodology and activities of industrial/organizational psychologists. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3660 Professional Counseling–Fa, Sp

3 hours

An introductory course emphasizing the underlying philosophies, current theories, and accepted procedures of counseling. *Prerequisite: PYCH-1600 General Psychology.*

PYCH-3670 Group Dynamics-Fa, Sp

3 hours

Group processes in a variety of group settings are the focus as this course explores the interaction of individuals and groups. Each student participates in a growth group as part of the course.

PYCH-3680 Counseling Couples and Families-Fa 3 hours

Students will explore the dynamics of marriage and family relationships, and the means to help couples and family members reconcile or enhance their relationships. Scriptural, psychological, and Christian-life issues spanning family life cycles are studied.

PYCH-3690 Social Psychology-Fa, Sp

The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3700 Adolescent Development 3 hours

Recent research dealing with adolescents will be emphasized. Emphasis is placed on the interaction of cultural, social, and personal family variables. Spiritual variables are integrated into the developmental process. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3701 Counseling Adolescents—Sp 3 hours

This course introduces students to counseling interventions for helping adolescents who are struggling with common developmental and adjustment problems. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3710 Adult Development and Aging-Fa 3 hours

The study of physical, psychological, social, and spiritual development and experience in the adult years. *Prerequisite: PYCH-1600 General Psychology, or permission of instructor.*

PYCH-3720 Psychology of Personality-Fa, Sp 3 hours

Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$5)

PYCH-3730 Research Methods-Fa, Sp

3 hours

An introduction to methods utilized in behavioral science research; emphasis upon experimental methodology and research design. *Prerequisite: PYCH-2610 Statistics or permission of instructor.* (Fee: \$5)

PYCH-3740 Qualitative Research—Fa **3 hours**

An investigation of a scientific method of inquiry utilizing qualitative rather than quantitative methodologies. Research methodologies such as participant observation and in-depth interviewing will be emphasized. A significant portion of the course will involve students actively engaging in qualitative research projects and preparing papers for potential presentation and publication. *Prerequisites: PYCH-1010 Writing in APA or permission of instructor.*

PYCH-3750 Psychological Testing

hours

3 hours

A survey of instruments frequently utilized in psychology. Assessments include intellectual, personality, and vocational interest inventories. Students have opportunities for self-assessment and are introduced to report writing and ethical principles of psychological testing. *Prerequisite: PYCH-1600 General Psychology; PYCH-2610 Statistics or permission of instructor.* (Fee: \$20)

PYCH-3760 Cognitive Neuroscience—Sp

Equip students with a thorough understanding of theories and research in Cognitive Neuroscience. Emphasis will be placed on brain physiology and anatomy contributing to the various cognitive processes. Laboratory exercises will enable the students to concretize the concepts presented in class as well as those presented in the research papers and to apply it to themselves. *Prerequisites: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3770 Experimental Design–Fa

3 hours

A critical understanding of, and an empirical familarity with the quantitative approaches used in psychology. An examination of methodology includes sampling and generalizability, measurement issues, data collection and analysis, non-experimental and experimental designs. *Prerequisite: PYCH-2610 Statistics.*

PYCH-3900 Neurophysiological Psychology–Fa, Sp **3 hours**

Explores the neurological, physiological, biological, and anatomical mechanisms responsible for behavior. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-3901 Medications and Behavior-Fa

3 hours

An overview of the major categories of psychotropic medications. Emphasis is on general understanding of how these medications affect behavior, their mechanism of action, and common side effects. *Prerequisite: PYCH-1600 General Psychology or permission of instructor.*

PYCH-4400 Counseling Skills-Sp

3 hours

Emphasis is on assisting individuals in ways of dealing with solving or transcending their problem situations. The methods and skills of helping others are investigated.

PYCH-4640

3 hours

Psychology Comprehensive Review-Fa, Su

Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year. Prerequisite: permission of instructor. (Fee: \$20)

PYCH-4650 Special Topics Seminar

1-3 hours

Various topics to be offered as interest demands. Available to students with special interests in psychology. *Prerequisite:* permission of instructor. (Fee: \$5)

PYCH-4700 Counseling Children-Fa

3 hours

An in-depth analysis of the effects of genetic, family, and environmental factors on the developmental patterns of children. A special emphasis will be placed on behavioral disorders of dysfunctional families.

PYCH-4800

1-3 hours

Seminar in Undergraduate Teaching-Fa, Sp, Su

Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 1000- and 2000-level courses. *Prerequisite: permission of instructor.*

PYCH-4850 1–3 hours

Advanced Seminar in Teaching Apprenticeship-Fa, Sp, Su

Students learn the fundamentals of college course preparation, instruction, management, tutoring, and assessment in 3000- and 4000-level courses. *Prerequisite: permission of instructor.*

PYCH-4950 Psychology Thesis-Fa, Sp

3 hours

Provides opportunities for students to conduct an independent research project on a topic of interest and prepare a publishable paper under the supervision of an individual faculty advisor. (Fee: \$20)

PYCH-4960 Independent Study in Psychology 1-3 h

Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student. *Prerequisite: permission of instructor.*

PYCH-4990 Psychology Internship—Fa, Sp, Su 1–9 hours

Junior and senior psychology majors may, with approval of the department, engage in psychological activity at a human service setting. One member of the Department of Psychology will supervise the student's internship. The department will determine the number of credit hours that will be given for individual work experience. Repeatable to nine hours. Capstone course. *Prerequisite: permission of instructor.* (Fee: \$20)

Department of Science and Mathematics Course Descriptions

Biology (BIO)

BIO-1110 Introduction to Biology-Fa

4 hours

Structure and function of plant and animal cells with emphasis in central concepts. This is the first biology course for majors, open to others with high school biology and chemistry backgrounds. Three lectures and one 2-hour laboratory per week. (Fee: \$100) BIO-1120 General Zoology—Sp 4 hours

This course will provide an integrative study of the diversity of organisms that make up the animal kingdom. Morphology, physiology, and ecology of the major phyla will be integrated with principles of population dynamics to study the continuities and discontinuities among the animal taxa. Two fifty-minute lectures and two 2-hour labs per week. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

BIO-2210 Microbiology-Sp

4 hours

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease, with some coverage of industrial and environmental topics. Laboratory techniques are emphasized. Two lectures and two two-hour laboratories per week. *Prerequisite: CHEM-1000 Principles of Chemistry, or CHEM-1050 Chemistry for Engineers, or CHEM-1110 General Chemistry I.* (Fee: \$100)

BIO-2250 Cell Biology-Fa, Sp

4 hours

Foundational knowledge of cell biology including basic mechanisms of prokaryotic and eukaryotic metabolism, division, and physiology. Three lectures and one two-hour laboratory. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

BIO-2500 General Botany–Fa

4 hours

A survey of the phyla of the plant kingdom and autotrophic prokaryotes and protists. Laboratory experiences will focus upon field botany, plant communities, and opportunities to investigate plant processes. Special emphasis will be upon the growth and development and the anatomy and physiology of flowering plants. Three lectures and one three-hour laboratory per week. *Prerequisites: BIO-1110 Introduction to Biology.* (Fee: \$100)

BIO-2600 General Ecology-Sp

4 hours

A study of the relationships among organisms and with their physical environment. Basic principles of ecological and evolutionary theory will provide insights about organismal adaptation, spatiotemporal scaling of systems, biogeochemistry, and biogeography. Environmental ethics and biblical stewardship principles will be evaluated as we encounter and consider environmental challenges (e.g. water, disease, climate change, and biodiversity loss). Prerequisites: BIO-2500 General Botany; two semesters of biology, or permission of the instructor (Fee: \$100)

BIO-3200 Advanced Ecology–Fa 3 hours

An advanced study of fundamental concepts of ecology across the organizational hierarchy from gene to globe. Emphasis will be placed on the topics of biodiversity, biogeography, biogeochemistry, evolution, and conservation with respect to a biblical environmental stewardship ethic in the face of global environmental change. Two hours lecture and one two-hour lab per week. Course includes a travel study experience to the Indiana Dunes National Lakeshore. Crosslist with ENVS-3200. *Prerequisites: BIO-2600 General Ecology or permission of the instructor.* (Fee: \$100)

BIO-3300 Genetics–Fa 4 hours

This is an integrative course of the areas of classical and molecular genetics. Focus on the principles of heredity in prokaryotic and eukaryotic organisms, which includes the understanding of transmission genetics on a molecular level. The molecular nature of genes, including gene expression, mutations, and manipulation of DNA will be emphasized. Three lectures and one three-hour laboratory per week. *Prerequisite: BIO-1110 Introduction to Biology; BIO-2250 Cell Biology.* (Fee: \$100)

BIO-3410 Parasitology and Invertebrate Zoology-Fa 3 hours

This course provides an overview of the invertebrate parasites commonly found in domestic animals, wildlife and humans. Also included in the course is the role of invertebrates in ecological monitoring. An integrative approach to invertebrate taxonomy, ecology, morphology and physiology is presented. Field collecting is used to learn the principles of classification and to study local biodiversity. *Prerequisite: BIO-1120 General Zoology.* (Fee: \$100) (even years)

BIO-3420 4 hours

Comparative Vertebrate Anatomy and Physiology-Sp

This course provides an investigation of the diversity among the vertebrate classes with an emphasis on mammals. The anatomy and physiology of the vertebrate body systems are examined to understand the continuity and discontinuity present within and among the groups. Three lectures and on three-hour laboratory per week. *Prerequisite: BIO-1120 General Zoology.* (Fee: \$100) **BIO-3450 Human Structure and Function I**–Fa **4 hours**

Study of the structure and function of the human body with an emphasis on body systems. Includes human tissues, skeletal, muscular, nervous, and endocrine systems. Two lectures and one three-hour laboratory per week. *Prerequisite: BIO-2250 Cell Biology.* (Fee: \$100)

BIO-3460 Human Structure and Function II—Sp 4 hours

Study of the structure and function of the human body systems, including cardiovascular, respiratory, gastrointestinal, and renal systems. Laboratory focuses on physiological phenomena. Three lectures and one three-hour lab per week. *Prerequisite: BIO-3450 Human Structure and Function I.* (Fee: \$100)

BIO-3510 Plant Physiology-Sp

A study of the physiological aspects of vascular plants with emphasis upon plant-soil water relationships, mineral nutrition, photosynthesis, and plant growth and development. Two lectures and one 3-hour laboratory per week. *Prerequisite: BIO-2500 General Botany.* (Fee: \$100) (odd years)

BIO-3520 Plant Taxonomy-Sp

3 hours

A study of the naming and classification of common vascular plants with emphasis upon field identification in the context of plant community and taxonomic family, plant collecting and herbarium techniques, and the importance of plants in global stewardship and missions. Two lectures and one three-hour laboratory per week. Includes a travel study opportunity during spring break. *Prerequisite: BIO-2500 General Botany.* (Fee: \$100) (even years)

BIO-3600 Environmental Ethics-Sp

3 hours

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. *Prerequisites: One semester of biology; junior status; permission of instructor.* (odd years)

BIOA-3600 Topics in Environmental Biology-Sp, Su 4 hours

Enrollment in this course signifies that the student has chosen to enroll in two or more Au Sable Institute courses in an upcoming term taught by faculty of various evangelical Christian colleges and universities. Course descriptions of the more than 20 Cedarville-approved Au Sable courses are available in the Au Sable Institute Bulletin available from the department Au Sable representative or at the Au Sable website. Enrollment begins when the student contacts the University Au Sable representative. Appropriate course titles will appear on the student's transcript with letter grades when the studies are completed. More information on Au Sable Institute is available under Travel Studies Opportunities or at ausable.org. *Prerequisite: acceptance to attend Au Sable Institute*.

BIO-3610 Ecophysiology-Fa

3 hours

A study of the physiological characteristics of organisms that permit them to be successful in various environmental conditions. This course includes both field and laboratory studies focusing on both warm and cold environments, and covers material from cells to ecosystems. Two lectures and one three-hour laboratory per week. *Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology.* (odd years) (Fee: \$100)

BIO-3710 Biochemistry-Sp

4 hours

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Three lectures and one lab per week. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.* (Fee: \$150)

BIO-3800 Biological Research–Fa, Sp **2 hours**

Student participate in an inquiry-based research project under the direction of a faculty mentor. The project stresses methods of science including literature reviews, experimental design, data collection, data analysis, and interpretation and communication of the results. The research project may be geared toward completion of the senior seminar capstone experience. *Prerequisites:* sophomore status; permission of instructor. (Fee: \$150)

3 hours

BIO-3810 Biological Research Internship-Fa

Student will participate in an 8-10 week summer undergraduate research program of their choosing at an accredited university or medical facility. Prior to participation in the research program, the student must have the program approved by the biology

faculty member in charge of the course. In addition, the student will receive a progress report form which will be filled out by the student and signed by the student's research advisor. To receive credit for the course, the student must turn in the progress report along with a copy of their laboratory notebook or research log, submit a 5-10 page research summary, and meet with the faculty member in charge of the course. Prerequisite: completion of the first two years of the biology core.

BIO-4210 Advanced Cell Biology-Fa 4 hours

In-depth study of the cell includes the following topics: normal cell physiology and division, differentiation, basic signaling pathways, and programmed cell death. Study of cell pathogenesis, aberrant signaling mechanisms, and other elective topics of current agricultural or biomedical interest may be included. Three lectures and one three-hour laboratory per week. Prerequisites: BIO-2250 Cell Biology. (Fee \$100)

BIO-4300 Molecular Biology of the Cell-Sp

Study of the molecules that make up the living cell with an emphasis on nucleic acid biology. Three lectures and one (threehour) laboratory per week. Prerequisites: BIO-3300 Genetics or permission of instructor. (Fee: \$100)

BIO-4310 Eukaryotic Gene Regulation-Fa 3 hours

This course covers eukaryotic gene regulation which encompasses the knowledge of both basal and regulated transcriptional machinery, how these proteins are regulated, how they regulate gene expression, and their role in cancer progression. Emphasis is placed on the role of chromatin structure and epigenetics in gene expression. Prerequisite: BIO-3300 Genetics.

BIO-4350 Immunology-Fa

Study of the human immune system, including descriptions of basic immunological phenomena, biochemistry of antibodies and antigens, the cellular and genetic components of the immune response, and immunopathology. Students will also learn immunological techniques commonly used in clinical and research applications. Three lectures, one two-hour lab per week. Prerequisite: BIO-1110 Introduction to Biology, BIO-2250 Cell Biology, and BIO-3300 Genetics. (Fee: \$100)

BIO-4360 Infectious Diseases-Sp

3 hours This course will cover key concepts that relate to the emergence, the spread, and the control of infectious disease

epidemics, including history of infectious diseases, basic concepts of microbial biology, taxonomy, antimicrobials, introduction to infection and immunity, bacterial/viral/fungal/parasitic pathogens and associated diseases, and diagnosis/treatment/control of infectious diseases. The future of infectious diseases including evolution of virulence, emergence of drug resistance, and eradication of diseases will also be addressed. Prerequisites: BIO-4350 Immunology; or instructor permission.

BIO-4410 Developmental Biology-Fa 4 hours

Systematic study of the mechanism of reproduction, gametogenesis, and organogenesis, with an emphasis on human development. Morphological laboratory study of selected vertebrates will reinforce the lecture material. Three lectures and one lab per week. Prerequisites: Junior status as a biology major or premed chemistry major, or BIO-3450 Human Structure and Function, or GBIO-2015 Human Anatomy and Physiology II and permission of instructor, or GBIO-2020 Human Anatomy, Physiology and Pathophysiology, and permission of instructor. (Fee: \$100)

BIO-4450

1-2 hours

4 hours

4 hours

Introduction to Human Gross Anatomy-Fa, Sp

This course will prepare students for the first-year medical school gross anatomy course. The course is laboratory-based and will introduce students to various surgical/dissection techniques and enhance student's understanding of human anatomy through a systems based approach. Areas of focus include the muscular, nervous, cardiovascular, digestive, and respiratory systems. Prerequisite: BIO-1110 Introduction to Biology; BIO-2250 Cell Biology; BIO-3450 Human Stucture and Function I; BIO-3460 Human Structure and Function II; and permission of instructor. (Fee: \$200)

BIO-4710 Principles of Bioethics-Sp

3 hours

2 hours

Christian principles of bioethics, with an emphasis on personhood and the sanctity of human life. Three lectures per week. Prerequisites: BIO-2250 Cell Biology.

BIO-4770 Pathophysiology-Sp

Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. Prerequisite: BIO-3450 Human Structure and Function I, permission of instructor. Corequisite: BIO-3460 Human Structure and Function II.

BIO-4800 Senior Seminar-Biology-Fa, Sp

1 hour

In this capstone course required of all senior biology majors, students compile data from laboratory, field study, or extensive literature research and give an oral presentation. Approval of the topic must be given by the student's academic advisor. The student must also attend a minimum of 10 seminars during the senior year. Prerequisites: Senior status; attendance of a minimum of 10 seminars prior to the senior year.

BIO-4880 Topics in Biology

1-3 hours

Topics of special interest by the biology faculty from the areas of modern biology. Prerequisites: Junior status; permission of instructor.

BIO-4900 Independent Study: Biology-Fa, Sp 1-3 hours

Supervised independent study of a particular biological phenomenon. Submission and approval of a research proposal must precede registration. Prerequisites: major in biology; permission of advisor.

BIO-4910 Environmental Biology Internship-Fa, Sp 3-4 hours

An opportunity to participate in an internship experience involving research projects with field biologists, ecologists, environmental health scientists, or environmental educators, depending upon the student's vocational preference. Involves department faculty or faculty in conjunction with local or state agencies or private institutions. Provides practical experience in field biology and ecology techniques related to habitat characterization, monitoring, management, and restoration. Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; permission of instructor. (Fee: \$25)

Chemistry: General Education (CHEM)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

SCIENCE AND MATHEMATICS

CHEM-1000 Principles of Chemistry-Fa

4 hours

For non-science majors, an introduction to atomic structure, ionic and covalent bonding, stoichiometry, kinetic theory, solutions and equilibria, nuclear chemistry, nomenclature, structure, and reactions of organic compounds. Four lectures and one two-hour laboratory per week. (Fee: \$50)

CHEM-1050 Chemistry for Engineers–Fa, Sp 3.5 hours

Fundamental concepts of chemistry are developed with applications of chemistry to engineering disciplines. Students learn measurement, number handling, the Periodic Table, descriptive properties of atoms, elements, molecules, and ions, chemical reactions, stoichiometry, chemical bonding, equilibrium, thermodynamics, gas laws, and the nature of solids and liquids. Three lectures per week, and one bi-weekly two-hour laboratory. (Fee: \$50)

Chemistry: Major (CHEM)

CHEM-1110 General Chemistry I-Fa

4 hours

Fundamental concepts of physical, inorganic, and analytical chemistry are developed. Students are introduced to the physical chemistry concepts of atomic theory, chemical bonding, molecular structure, gas laws, states of matter, and thermochemistry. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Three lectures and one three-hour lab per week. (Fee: \$100)

CHEM-1120 General Chemistry II-Sp

4 hours

A continuation of General Chemistry I, including the physical chemistry concepts of intermolecular forces, properties of solutions, kinetics, equilibrium, and Gibbs free energy. Inorganic topics include acids and bases, oxidation-reduction reactions, solid-state structures, metal complexes, and nuclear chemistry. Lab exercises stress quantitative analytical techniques, application of visible light spectroscopy, and statistical analysis of data. Three lectures and one three-hour lab per week. *Prerequisite: CHEM-1110 General Chemistry I.* (Fee: \$100)

CHEM-2210 Analytical Chemistry I–Fa 3 hours

A study of the fundamental concepts and skills of analytical chemistry including measurement, statistical treatment of data, equilibrium constant calculations, solubility equilibria, acid-base equilibria, EDTA-complexation equilibria, volumetric analysis, and radiochemical analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations where accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$150)

CHEM-2220 Analytical Chemistry II-Sp

3 hours

Detailed study of analytical instrumentation, including electro-analytical methods such as potentiometry, coulometry, voltammetry, spectrochemical analysis, and analytical separations, including various types of chromatography. Two lectures and one three-hour laboratory per week. *Prerequisite: CHEM-2210 Analytical Chemistry I.* (Fee: \$150)

CHEM-2800 Introduction to Research in Chemistry-Fa 1 hour

An introduction to the purpose and methodology of research in chemistry, including keeping a laboratory notebook, retrieving information, using the chemical literature, and writing research reports. One lecture per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$100)

CHEM-3210 Environmental Chemistry-Sp

1 hours

A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous courses to current environmental issues. Three lectures and one three-hour lab per week. Prerequisite: CHEM-2220 Analytical Chemistry II and CHEM-3510 Organic Chemistry II, or permission of the instructor. (Fee: \$100) (odd years)

CHEM-3410 Inorganic Chemistry-Fa

3 hours

Detailed study of inorganic compounds, including atomic structure, the structure of solids, molecular structure and bonding, molecular symmetry and its applications, acids and bases, and oxidation and reduction. Lab stresses synthesis and characterization using instrumental methods. Two lectures and one three-hour lab per week. *Prerequisite: CHEM-2210 Analytical Chemistry I.* (Fee: \$100)

CHEM-3510 Organic Chemistry I-Fa

4 hours

Study of the structure, nomenclature, stereochemistry, physical properties, spectra, syntheses, reactions, and reaction mechanisms of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers. Biological and medical applications are included. Lab includes basic techniques, procedures, and instruments, as well as syntheses and reactions. Three fifty-minute lectures and one three-hour lab per week. *Prerequisite: CHEM-1120 General Chemistry II.* (Fee: \$150)

CHEM-3520 Organic Chemistry II-Sp

4 hour

Continuation of Organic Chemistry I, including the detailed study of conjugated aliphatics, aromatics, aldehydes, ketones, carboxylic acids, anhydrides, esters, acyl halides, amines, phenols, and aryl halides. Lab includes systematic qualitative organic analyses using modern instrumental methods (H-NMR, C-NMR, FTIR, GC/MS). Three fifty-minute lectures and one three-hour lab per week. *Prerequisite: CHEM-3510 Organic Chemistry I.* (Fee: \$150)

CHEM-3710 Biochemistry-Sp

4 Hours

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Three lectures and one lab per week. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.* (Fee: \$150)

CHEM-4310 Thermodynamics and Kinetics-Fa

4 hours

4 hours

A study of the laws of thermodynamics, chemical equilibrium, solutions, and kinetics. Three lectures and one three-hour lab per week. *Prerequisites: CHEM-2210 Analytical Chemistry I.* (Fee: \$150)

CHEM-4320

Quantum Mechanics and Spectroscopy-Sp

A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. *Prerequisites: CHEM-2210 Analytical Chemistry I.* (Fee: \$150)

CHEM-4410 Advanced Inorganic Chemistry-Sp 3 hours

Study of d-metal complexes, the systematic chemistry of the elements, and advanced topics in inorganic chemistry. Topics may include main group organometallics, d- and f-block elements, catalysis, and bioinorganic chemistry. Three lectures per week. *Prerequisite: CHEM-3410 Inorganic Chemistry.* (even years)

CHEM-4800 Senior Seminar-Chemistry-Sp

1 hour Capstone course for majors in chemistry. Students choose a topic that expands upon a topic covered in their chemistry classes

and research recent, relevant articles connected to the topic. The student will write a research paper and give an oral presentation relating to the topic and the relevant articles. The topic may coincide with research the student has participated in. Each student must obtain approval of the topic from their topic advisor and the seminar instructor within three weeks of starting the course. The students must also attend a minimum of 10 seminars during the senior year. Guest lecturers or faculty members may present papers at the invitation of the instructor. Prerequisites: senior status; attendance of a minimum of 10 seminars during the sophomore and junior years.

CHEM-4830 Research in Chemistry-Fa, Sp 1-3 hours

Student participate in an inquiry-based research project under the direction of a faculty mentor. The project stresses methods of science including literature reviews, experimental design, data collection, data analysis, and interpretation and communication of results. The course may be repeated for up to 6 credits. Prerequisites: CHEM-2800 Introduction to Research in Chemistry; permission of instructor. (Fee: \$150)

CHEM-4880 Topics in Chemistry

1-3 hours

Topics of special interest are selected by the chemistry faculty from the areas of modern chemistry. *Prerequisites: junior status:* permission of instructor.

CHEM-4900 Independent Study in Chemistry 1-3 hours

Supervised independent study of some chemical phenomena. Submission and approval of a research proposal must precede registration. Prerequisites: CHEM-2210 Analytical Chemistry I; CHEM-3510 Organic Chemistry I; CHEM-4310 Thermodynamics and Kinetics.

CHEM-4910 Chemistry Internship-Fa, Sp, Su 1-3 hours

Students will gain experience in the chemistry profession in a departmentally approved work environment. A technical report detailing the skills and techniques utilized and a supervisor's evaluation will be the basis for successful completion. Prerequisite: CHEM-2220 Analytical Chemistry II or CHEM-3520 Organic Chemistry II.

Environmental Science (ENVS)

ENVS-1110

4 hours

Environment: Science, Sustainability, and Stewardship-Sp

An interdisciplinary study of the environment that considers foundational understanding rooted in science, society, and economy. We will explore the socio-ecological implications of human activity, impacts, and responsibility for the environment. Students from all majors are welcome and will be challenged to develop and apply a biblical stewardship ethic. Three lectures and one two-hour laboratory per week. Crosslisted with GSCI-1110. (Fee: \$100)

ENVS-3100 4 hours

Principles of Geographic Information Systems-Fa

An introduction to the science of geographical information systems (GIS). Students will study the theory and practice modern thematic cartography and spatial analysis using GIS. Students will gain experience with techniques of GPS data collection, web-based data retrieval, using software (ArcGIS) for data management, storage and analysis of vector and raster datasets. Students will conduct a spatial analysis project and prepare a map product portfolio. This course satisfies the physical science requirement of the general education requirements. Three onehour lectures and one two-hour laboratory per week. Crosslisted with ESCI-3100 (Fee: \$100)

ENVS-3200 Advanced Ecology-Fa

3 hours

An advanced study of fundamental concepts of ecology across the organizational hierarchy from gene to globe. Emphasis will be placed on the topics of biodiversity, biogeography, biogeochemistry, evolution, and conservation with respect to a biblical environmental stewardship ethic in the face of global environmental change. Two hours lecture and one two-hour lab per week. Course includes a travel study experience to the Indiana Dunes National Lakeshore. Crosslist with BIO-3200. Prerequisites: BIO-2600 General Ecology or permission of the instructor. (Fee:

ENVS-3600 Environmental Ethics-Sp

3 hours

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. Prerequisites: One semester of biology; junior status; permission of instructor. (odd years)

ENVS-4100 Environmental Geology-Fa

4 hours

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Includes three lectures and one three-hour lab per week Preguisites: GEOL-1110 Introduction to Physical Geology and junior status. (Fee:\$150) (even years)

Earth Science (ESCI)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

ESCI-2310 Introduction to Oceanography-Sp 4 hours

An introductory survey of the oceans and the processes that occur in and around them. Major topics will include ocean currents, coastlines, plate tectonics, marine sediments, waves, tides, composition of sea water, interaction of the ocean with the atmosphere, marine life forms, and their habitats. A field trip will visit a local aquarium. Lecture three times per week and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-2410 General Meteorology-Sp

A survey of basic meteorological principles and weather systems. Topics covered will include the vertical structure of the atmosphere, cloud development and precipitation, optical effects of the atmosphere, wind systems, air masses, fronts, and severe weather. Labs will be used to develop basic meteorological skills such as observation of local weather, decoding and interpretation of meteorological data, and introductory weather forecasting. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. This course satisfies the physical science component of the general education requirements (Fee: \$100) (even years)

ESCI-2510 Introduction to Astronomy-Fa

4 hours

An introduction to the structure and composition of the universe. Topics covered will include measurement of celestial objects, structure of the solar system and galaxy, composition and history of the universe. Time will be spent in the discussion of various cosmological models and their implications. The course and lab will be taught at a level which requires the use of algebra and trigonometry. Three weekly lectures and one two-hour laboratory per week. Variations in the laboratory schedule will be made to accommodate field observations. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-3100 4 hours

Principles of Geographic Information Systems-Fa

An introduction to the science of geographical information systems (GIS). Students will study the theory and practice modern thematic cartography and spatial analysis using GIS. Students will gain experience with techniques of GPS data collection, web-based data retrieval, using software (ArcGIS) for data management, storage and analysis of vector and raster datasets. Students will conduct a spatial analysis project and prepare a map product portfolio. This course satisfies the physical science requirement of the general education requirements. Three onehour lectures and one two-hour laboratory per week. Crosslisted with ENVS-3100 Prerequisite: GMTH-1030 Precalculus or GMTH-2110 Biostatistics, or permission of instructor. (Fee: \$100)

Forensic Science (FORS)

FORS-3400 Forensic Science-Sp

4 hours

This course will apply a student's knowledge of chemistry and biology to specific forensic analyses. Topics to be covered will include matching of paint and glass samples, use of GC/ Mass Spectrometry and IR spectroscopy to identify controlled substances, analysis of explosives and fuel residues, DNA typing, fingerprint examination, document examination, and giving of expert testimony. Prerequisites: BIO-2250 Cell Biology; CHEM-2220 Analytical Chemistry II; CRJU-3390 Criminal Evidence. Corequisites: CHEM-3510 Organic Chemistry I. (Fee: \$100)

FORS-4800 Forensic Science Capstone-Fa, Sp 1 hour Capstone course for the forensic science major. Students will research a specific forensic procedure and give a brief explanation of it. This will be followed by a series of detailed questions from a panel of faculty members, designed to simulate the examination of an expert witness. Students will be graded on their knowledge and professional presentation. Corequisite: FORS-3400 Forensic Science.

General Biology (GBIO)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GBIO-1000 Principles of Biology-Fa, Sp, Su

Emphasizes basic life processes and the principles by which these processes operate at the ecological, organismic, and cellular levels of organization with emphasis on human responsibility toward life at all levels. Three lectures each week and one two-hour, bi-weekly laboratory. (Fee: \$50)

GBIO-1010 Basics of the Cell-Fa

Foundational principles of the cell will be covered, with a focus on the following topics: the cell membrane; cellular organelles; chromosome structure, DNA replication, transcription and translation; the cell cycle and cellular division (mitosis and meiosis); and Mendelian genetics. The course is designed to fulfill the prerequisite requirement for GBIO-2010 Human Anatomy and Physiology.

GBIO-1100 Pre-Health Professional Development I-Fa 1 hour

This course is designed to introduce pre-health professions students to health-related fields (including medicine, dentistry, optometry, and veterinary medicine) and provide guidance for the academic/professional preparation required for entrance into these graduate programs. Students are introduced to the role of Cedarville's pre-health professions committee, are given the opportunity to interact with CU alumni medical professionals, and are exposed to a variety of medical professions and programs. One meeting per week. Prerequisite: interest or intention of applying to medical, dental, optometry, or veterinary school, or instructor's permission. (Fee \$50)

GBIO-2010 Human Anatomy and Physiology I-Sp 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on cell and human tissues and on the skeletal, muscular, nervous, and endocrine systems. Three lectures and one laboratory experience per week. Prerequisite: One semester of biology; or permission of the instructor. (Fee: \$75)

GBIO-2015 Human Anatomy and Physiology II-Fa 4 hours

Survey of the anatomy and physiology of the human body with an emphasis on the cardiovascular, respiratory, immune, digestive, urinary, and reproductive systems. Three lectures and one two hour laboratory per week. Prerequisites: GBIO-2010 Human Anatomy and Physiology I. (Fee \$75)

GBIO-2210 Principles of Microbiology-Fa

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease. Laboratory techniques are emphasized. Three lectures plus one lab each week. Corequisites or prerequisites: CHEM-1000 Principles of Chemistry; GBIO-1010 Basic of the Cell or BIO-1110 Introduction to Biology. (Fee: \$75)

GBIO-2720 Bioethics and the Human Experience-Sp 3 hours

An integrative survey of bioethics, emphasizing human personhood, human sexuality and reproduction, end-of-life issues, and biomedical decision making. Prerequisite: GBIO-1000 Principles of Biology.

GBIO-3100 Pre-Health Professional Development II-Fa 1 hour

This course is designed to help students prepare for their upcoming medical, dental, or optometry school application. As part of the course, students draft personal statements, discuss and categorize their extracurricular activities, consider secondary application questions, create exam study plans (MCAT/DAT/ OAT), and practice interviewing skills. One meeting per week. Additionally, students attend the 3-day annual Global Missions Health Conference in Louisville, KY. Prerequisite: GBIO-1100 Pre-Health Professional Development I, and junior/senior status with the intention of applying to medical, dental, or optometry school during the upcoming application period; or instructor's permission. (Fee: \$100)

GBIO-3350 Principles of Immunology-Sp

Overview of the human immune system, including study of the innate and adaptive immune systems, the mechanics of an immune response, antibodies and antigens, and immunopathology. This course is designed for pre-pharmacy and non-biology major pre-medical students. Three lectures per week. Prerequisites: BIO-1110 Introduction to Biology; BIO-2250 Cellular Biology.

SCIENCE AND MATHEMATICS

\$150)

GBIO-4700 Bioethics Colloquium-Sp

1 hour

Student will generate a peer-reviewed, publication-quality manuscript as his/her capstone project for the bioethics minor. Prerequisite: Completion of other elements of Bioethics minor.

Geology (GEOL)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GEOL-1110 Introduction to Physical Geology-Fa 4 hours

An introductory study of the earth and its geological processes, including various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and will include local field trips. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$150)

GEOL-1120 Historical Geology-Sp 4 hours The earth's geological history from its beginning to the present. Topics of study include plate tectonics, biological evolution and the meaning of the fossil record, correlation, dating methods, and alternative views of earth history. Required field trips will study local fossils. Three lectures and one laboratory per week. Prerequisites: GEOL-1110 Introduction to Physical Geology. (Fee:

GEOL-2030 3.5 hours

Geology of the National Parks for Geology Majors-Su

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two week travel study course. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop and a term paper describing a particular feature of interest at one of the sites visited. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Prerequisite: Geology major and at least one previous GEOL course. (Fee: will vary from year to year; will be used to cover lodging, car rental, gas and other expenses. Transportation to and from the trip starting location and food expenses will be covered by the students.) GEOL-2100 Mineralogy-Fa 4 hours

The student will study the occurrence, associations, characteristics, and crystal chemistry of common minerals. Laboratory work will emphasize identification and recognition of minerals. Prerequisite: GEOL-1110 Introduction to Physical Geology; CHEM-1110 General Chemistry I (corequisite). (Fee: \$150) (even years)

GEOL-2810 Geology Field Work and Research-Su 1-4 hours

This course gives a student an opportunity to work alongside an active geologist in the field and/or the laboratory. The student must get approval from his advisor and submit a written description of the work to be performed before the experience begins. The student must submit notes and a summary of the work completed when the experience is over. Hours are variable depending on the length of the experience and the work completed. Prerequisites: sophomore geology major and advisor approval of the proposal.

GEOL-3100 Geomorphology-Sp

4 hours

4 hours

The student will study the formation, development, and denudation of the earth's surface features as a function of rates, processes, and time. Landform analysis will be completed with topographic maps, aerial photographs, and stereo photographs. Prerequisites: GEOL-1110 Introduction to Physical Geology; GEOL-1120 Historical Geology. (Fee: \$150) (even years)

GEOL-3200 Invertebrate Paleontology—Fa Many aspects of the fossil record will be studied including preservation, variation, and identification of fossils. Uses of invertebrate fossils including biostratigraphy, paleoecology, and biogeography will be discussed. Various evolutionary concepts will be presented, including baraminology. Laboratory experiences will include required field trips and identification and recognition of North American fossil species. Prerequisites: BIO-1110 Introduction to Biology; GEOL-1120 Historical Geology. (Fee:

GEOL-3300 Petrology-Sp

\$150) (odd years)

4 hours

Students will study the occurrence and origin of sedimentary, igneous, and metamorphic rocks and learn how to identify them. Required field trip. Prerequisite: GEOL-2100 Mineralogy; CHEM-1120 General Chemistry II (corequisite). (Fee: \$500) (even years) GEOL-3400 Structural Geology-Fa 4 hours

Mechanics of rock deformation and the study of various structures in all types of rocks. Required field trip. Prerequisite: GEOL-3300 Petrology; GEOL-3100 Geomorphology and PHYS-2120 General Physics II (corequisites). (Fee:\$150) (odd years) GEOL-3600 Readings in Geology-Fa 1 hour

Students will read and discuss a current text or series of papers. The purpose is to help the student become more familiar with the geological research and literature. Part of the course requirements may include attending a national or regional GSA conference. Course may be taken up to three times for credit. Prerequisite: GEOL-1120 Historical Geology. (Fee:\$150)

GEOL-3800 3 hours Philosophy of Science and Research Methods in Geology-Sp

By its nature, geological research and its resultant interpretations are heavily paradigm-driven. This course will examine the scientific method and study the development of various scientific paradigms, especially those within geology. Students will learn productive ways to integrate their faith with science and how to apply that to a research method that arrives at conclusions without compromising data. The merits of various models of earth history will be critiqued. Prerequisite: GEOL-1120 Historical Geology; 16 hours of geology courses and junior status. GEOL-4100 Environmental Geology-Fa

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Includes three lectures and one three-hour lab per week Prequisites: GEOL-1110 Introduction to Physical Geology and junior status. (Fee:\$150) (even years)

GEOL-4200 Stratigraphy and Sedimentology-Sp 5 hours

The student will be introduced to principles of sedimentary rock correlation and structure. Emphasis will be placed on how to interpret past rates and processes using clues gained from sedimentary rocks. Required field trip(s). Prerequisite: GEOL-1120 Historical Geology; GEOL-3300 Petrology. (Fee: \$500) (odd years) GEOL-4400 Summer Field Camp-Su 6 hours

Five weeks of geologic mapping and problem solving in structural geology and stratigraphy. Selected course must be approved by the department Chair (the course will be sponsored by another institution). The course will typically be taken following the student's junior or senior year. Prerequisites: GEOL-3100 Geomorphology; GEOL-3300 Petrology; GEOL-3400 Structural Geology; and GEOL-4200 Stratigraphy and Sedimentology.

GEOL-4700 Professional Geologist Exam Prep-Sp 1 hour

A course for reviewing geologic topics in preparation for taking the ASBOG geology-proficiency assessment examination. The review and assessment exam also serves preparation for taking many states' Professional Geologist registration exam. *Prerequisite: Senior status in geology/geoscience.*

GEOL-4800 Senior Project–Fa, Sp 1 hou

A capstone project including geological research, writing, and presentation of results. To be completed during one of the student's last two semesters of coursework. Course may be taken up to 2 times. *Prerequisite: senior status; GEOL-3800 Philosophy of Science and Research Methods in Geology.* (Fee: \$100)

GEOL-4830 Research in Geology-Fa, Sp 2-3 hours

Investigation of a geologic research project and its culmination in a scholarly research report (oral and/or written). Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites: completion of 16 hours in geology; junior status; and permission of instructor.* (Fee:\$200)

GEOL-4880 Topics in Geology-Fa, Sp **1–3 hours**

Topics of special geological interest that are not in the existing curriculum are selected by the faculty. The topic should provide a logical extension of the student's academic plan and enhance the student's educational experience. *Prerequisite: completion of 16 hours in geology; junior status; and permission of instructor.*

GEOL-4900 Independent Study in Geology-Fa, Sp 1-3 hours

Supervised independent study of a particular geologic phenomenon. Submission and approval of a research proposal must precede registration. *Prerequisite: major in geology; approval of research proposal.*

General Mathematics (GMTH)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GMTH-1010 Introduction to Mathematics-Fa, Sp 3 hours

Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. *Prerequisite: proficiency in mathematics*.

GMTH-1020 College Algebra–Fa, Sp, Su 3 hours

Introduction to methods of algebraic analysis. Includes (but may not be limited to) many topics of intermediate algebra: the field axioms, linear functions, inequalities, systems of equations, determinants, and quadratic functions. This course, in conjunction with GMTH-1030 Precalculus, is designed to prepare the student for calculus. *Prerequisite: proficiency in mathematics; two years of high school mathematics; or permission of instructor.*

GMTH-1030 Precalculus-Fa, Sp 4 hours

Introduction to the principles of trigonometry and some advanced topics in algebra. Coverage includes, but may not be limited to, exponential, logarithmic, trigonometric, and circular functions, triangle problems, and vectors. This course, in conjunction with GMTH-1020 College Algebra, is designed to help prepare the student for calculus. *Prerequisites: proficiency in mathematics; GMTH-1020 College Algebra or equivalent; or permission of instructor.*

GMTH-1040 3 hours

Calculus for Business/Social Science-Fa, Sp

Introduction to the concepts of differential and integral calculus for students of business. Numerous applications from these areas will be considered. Does not apply toward major in mathematics. *Prerequisite: proficiency in mathematics*.

GMTH-2110 Introduction to Biostatistics-Fa,Sp 3 hour

An introduction to statistical methods that are of particular interest to biologists for experimental design and interpretation. Prerequisites: BIO-1110 Intro to Biology or MATH-1700 Calculus & Dynamical Systems for Life Sciences or MATH-1710 Calculus I.

GMTH-3010 Proof and Mathematical Modeling-Fa 3 hours

Proof by contradiction, contrapositive, and induction will be explored along with direct proof in the verification of conjectures and other mathematical propositions. Additionally, the formulation of discrete, statistical, and algebraic mathematical models, along with their use in solving problems, will be studied. Appropriate educational technology, including graphing calculators, spreadsheets, and geometric manipulation software will be used throughout. Does not count toward the B.A. or B.S. majors in mathematics or the B.A. in integrated mathematics education. *Prerequisites: EDUC-2800 Principles of Mathematics II; GMTH-1020 College Algebra*.

GMTH-3100 Theory of Interest-Sp

4 hours

This course is an introduction to the fundamental concepts of financial mathematics and how these concepts are applied in calculating present and future values for various streams of cash flows. Applications to annuities, loans, stocks, and bonds are covered. The learning outcomes of this course match those specified by the Society of Actuaries for candidates taking Exam FM. Prerequisites: MATH-1720 Calculus II; corequisite: FIN-3710 Principles of Finance. (even years)

General Science (GSCI)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GSCI-1010 Principles of Earth Science—Fa, Sp 3.5 hours

A survey of the sciences of geology, oceanography, and meteorology. Major lecture topics include discussion of earth's geological history, minerals, rocks, dating, plate tectonics, glaciers, volcanoes, ocean currents, marine life, waves, the atmosphere, and weather systems. When appropriate, contrasting views of these subjects will be examined. Laboratory experiences include field trips to areas of local geological interest. Lecture three times per week and laboratory on alternate weeks. Satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1020 Principles of Physical Science-Fa, Sp 3.5 hours

A survey of the sciences of physics, chemistry, and astronomy. Major lecture topics include motion, force, energy, heat, waves, electricity, optics, quantum effects, periodic table, chemical bonds, chemical reactions, astronomical measurements, and the origin of the universe. Content of this course will be related to social and philosophical issues to emphasize a Christian's responsibility in a technological society. Lecture three times per week and laboratory on alternate weeks. This course satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1030 Geology of the National Parks-Su

3.5 hours

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two-week travel study course that fulfills the three and a half-hour laboratory physical science requirement. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. No previous geological knowledge is required. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Special course fees apply and will vary from year to year. **GSCI-1110** 4 hours

Environment: Science, Sustainability, and Stewardship-Sp

An interdisciplinary study of the environment that considers foundational understanding rooted in science, society, and economy. We will explore the socio-ecological implications of human activity, impacts, and responsibility for the environment. Students from all majors are welcome and will be challenged to develop and apply a biblical stewardship ethic. Three lectures and one two-hour laboratory per week. Crosslisted with ENVS-1110. (Fee: \$100)

GSCI-2010 Physical Science for Teachers-Fa, Sp 4 hours

Introduction to a selection of core concepts of physics and chemistry for preservice elementary education teachers. Students will develop methods of learning science, with emphasis on inquiry, scientific method, and integrating common everyday objects and experiences with a view toward cultivating the excitement of studying God's creation. Three lectures with one weekly one-hour lab. Does not satisfy the physical science general education requirement. (Fee: \$75)

GSCI-3010 Concepts in Middle School Science-Sp 4 hours

This lab course highlights key concepts in middle school science by reviewing and extending concepts from previous science courses with an emphasis on the integration of earth sciences, physical sciences, and life sciences. Concepts addressed include the nature of science, methods of science, the history of science, biological and geological evolution, and development of the DNA model and the role of DNA in the Modern Synthesis Theory. Prerequisites: GBIO-1000 Principles of Biology; GSCI-1010 Principles of Earth Science. CHEM-1000 Principles of Chemistry (recommended) (Fee: \$75) (even years)

GSCI-3060 4 hours Environmental Science for Middle School Educators-Sp

Introduction to the interdisciplinary study of the dynamic relationships that exist between the earth's organisms and their environment and how human activity affects these relationships. Students will identify and analyze environmental problems both natural and human-made and identify and explore sustainable solutions to the problems. This course will include pertinent pedagogy for teaching environmental science in a middle school setting. Three lectures and one laboratory session per week. This course does not satisfy the general education requirement for biology. Prerequisites: GBIO-1000 Principles of Biology, GSCI-1010 Principles of Earth Science (Fee: \$100) (odd years)

Mathematics (MATH)

MATH-1700

4 hours

Calculus and Dynamical Systems for the Life Sciences-Fa, Sp

An introductory calculus and dynamical systems course for majors in the life sciences. Discrete and continuous dynamical systems, limits and derivatives, including derivatives of trigonometric, exponential, logarithmic and inverse trigonometric functions, applications of derivatives and dynamical systems, including related rates and optimization, differential equations, integrals - both definite and indefinite - and their applications, and possibly analysis of autonomous differential equations. Prerequisite: GMTH-1030 Precalculus or equivalent; or permission of instructor.

MATH-1710 Calculus I-Fa. Sp.

5 hours

5 hours

First course of a two-course sequence covering basic concepts of analytic geometry and single variable calculus. Includes limits and single variable calculus. Includes limits and derivatives of algebraic and transcendental functions, applications of the derivative, single variable integration, including the Fundamental Theorem of Calculus and integration by substitution, and applications of integration, including solving differential equations and finding volumes of revolution. Prerequisite: GMTH-1030 Precalculus or equivalent; or permission of instructor.

MATH-1720 Calculus II-Fa, Sp

The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes techniques of integration such as integration by parts, trigonometric substitution and partial fractions, improper integrals and L'Hopital's rule, sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, calculus of parametric equations and polar coordinates, vectors and geometry in three-space, vector-valued functions and curvature. Prerequisite: MATH-1710 Calculus I or equivalent or permission of instructor.

MATH-1880 Topics in Calculus-Fa, Sp, Su

This course is for students who are attempting to transfer credit for MATH-1710 or MATH-1720 Calculus I and II when those transferred courses lack some of the topics contained in MATH-1710 or MATH-1720. It requires full participation in a MATH-1710 or MATH-1720 course during the sections in which the student's transferred course is found to be deficient or in a stand-alone course offered during Summer School I. Prerequisite: GMTH-1030 Precalculus or equivalent; permission of instructor. Corequisite: partial transfer credit for MATH-1710 and/or MATH-1720 or approved transient credit for a Calculus I or II course that will provide less than full credit for MATH-1710 or MATH 1720. MATH-1990

Beautiful Math Structures and Thinking-Fa

3 hours

This course introduces freshmen math majors to interesting mathematical ideas and applications beyond the usual scope of standard math courses. Topics include an introduction to propositional logic, function theory, and infinite sets. Other topics will be chosen from elementary number theory, modular arithmetic, error-correcting codes, Fibonacci numbers and the golden ratio, fractals, discrete dynamical systems and chaos, Euler and Hamilton Circuits, democracy and impossibility theorems, game theory, the Platonic solids, n-dimensional space, and other topics up to the discretion of the instructor.

MATH-2210 Logic and Methods of Proof-Fa 3 hours

Introduction to formal mathematical logic; emphasis on preparing students for the abstraction of upper-division courses. Special attention is given to the development of students' skills with a variety of methods of proof, using examples from numerous areas. Prerequisites: MATH-1720 Calculus II; MATH-1990 Beautiful Math Structures and Thinking; or permission of instructor.

MATH-2510 Discrete Math for Computer Science-Sp 3 hours

An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, graphs and trees, and program correctness and proofs. This course does not satisfy any requirements for the B.A. or B.S. in mathematics or the B.A. in integrated mathematics education. *Prerequisite: MATH-1710* Calculus I.

MATH-2520 3 hours

Discrete Math and Probability Principles for Computer Science-Sp

An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, program correctness and proofs, probability models, random variables, probability distributions, estimation, and hypothesis testing. This course does not satisfy any requirements for the B.A. or B.S. in mathematics or the B.A. in integrated mathematics education Prerequisites: MATH-1720 Calculus II; EGCP-1010 Digital Logic Design.

MATH-2710 Calculus III-Fa, Sp

Introduction to differential and integral calculus of several variables, multiple integrals, vector analysis, line integrals, and surface integrals. Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.

MATH-2740 Differential Equations-Fa, Sp

Study of the standard techniques employed in the solution of differential equations with emphasis on those arising from physical problems. Prerequisite: MATH-1720 Calculus II or equivalent.

MATH-2800 LaTeX for Technical Documents-Sp 1 hour

In this course students will be introduced to the typesetting language of LaTeX through the use of tutorials, example documents, and homework assignments. They will learn to easily prepare professional-looking theses, conference papers, and journal papers. They will also learn how to create professionallooking presentations, homework, quizzes, examinations, syllabi, resumés, and curriculum vitae.

MATH-3050 4 hours

Algebraic Structures for Secondary Education Majors-Fa

An introduction to the basic ideas of number theory, abstract algebra, and linear algebra. Factorization of integers, congruence modulo m, Fermat's Theorem, groups, rings, integral domains, fields, vector spaces, systems of linear equations, determinants and inverses, linear transformations, eigenvalues, and eigenvectors. Does not count toward B.A. or B.S. majors in mathematics. Prerequisites: MATH-2210 Logic and Methods of Proof. (even years)

MATH-3110 Probability and Statistics-Sp 3 hours

Probability models, random variables, probability distributions, estimation, and hypothesis tests are studied from theoretical and practical viewpoints. Prerequisite: MATH-1720 Calculus II.

MATH-3120 Theory of Probability-Sp 3 hours

Topics include combinatorial analysis, axioms of probability, conditional probability, independent events, Bayes' Formula, random variables, expected value, variance, discrete distributions, continuous distributions, joint distributions, the Law of Large Numbers, and the Central Limit Theorem. Prerequisites: MATH-2710 Calculus III; MATH-2210 Logic and Methods of Proof

MATH-3240 Introduction to Operations Research-Fa 3 hours

Formulation and analysis of mathematical models for the optimal solution of decision making problems under certainty. Course content includes linear programming; the simplex method, duality and sensitivity analysis. This course applies probabilistic analysis to such nondeterministic models as queueing models, elements of dynamic programming, and Markov decision analysis. Prerequisites: MATH-3610 Linear Algebra; or permission of the instructor. (even years)

MATH-3500 Number Theory-Fa

3 hours

Introduction to most of the topics of elementary number theory such as modular arithmetic, prime factorizations, linear diophantine equations, the Chinese remainder theorem, quadratic reciprocity, Pythagorean triples, number theoretic functions, and related topics. Concrete examples will illustrate the concepts and abstract reasoning will develop the theories considered in the course. Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-3550 Discrete Math: Graph Theory-Fa 3 hours

Introduction to the basic concepts of graph theory and discrete mathematics problem-solving. Topics covered include elements of graph theory, covering circuits, graph coloring, trees and searching, and network algorithms. Prerequisite: MATH-2210 Logic and Methods of Proof. (odd vears)

MATH-3560 Discrete Math: Combinatorics-Sp

Study of combinatorial reasoning, focusing on enumeration. Intended to develop a proficiency in methods of enumerative problem solving. Topics chosen from areas such as counting methods for arrangements and selections, permutations and combinations, generating functions, partitions, and recurrence relations. Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-3610 Linear Algebra-Sp

3 hours

3 hours

3 hours

Introduction to the algebra of linear equations, including determinants, matrices, vector spaces, eigenvalues, eigenvectors, and linear mappings. Prerequisite: MATH-1720 Calculus II or equivalent.

MATH-3710 Advanced Calculus-Sp

3 hours

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus of several variables, integral calculus of several variables, vector integral calculus of several variables, and infinite series. Prerequisite: MATH-2710 Calculus III or equivalent or permission of instructor. (even years) MATH-3740 Complex Variables-Sp 3 hours

Introduction to complex arithmetic, differentiation: analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions and their mapping properties, integration: Cauchy's Theorem, Cauchy's Integral Formula, Taylor and Laurent series, poles, residues, and the residue theorem. Prerequisite: MATH-1720 Calculus II. (odd years)

MATH-3750 Introduction to Dynamical Systems-Sp

Topics include one-dimensional flows and bifurcations, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals. Prerequisite: MATH-2740 Differential Equations. (even years)

MATH-3760 Numerical Analysis-Sp

3 hours

Analysis of computational error, solutions of equations of one variable, interpolation, numerical differentiation and integration, finite difference methods for solving ordinary differential equations, solving linear algebraic systems, and least squares approximations. Prerequisite: CS-1210 C++ Programming; MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years)

MATH-3800 Research Methods-Sp

This course will introduce the mathematics major to the various resources and methods available for researching topics in mathematics. This could include the use of library resources at Cedarville University, use of Internet resources, WWW searches, and a tour of the library at a larger university, where journals and indices of importance can be referenced. Prerequisites: MATH-2210 Logic and Methods of Proof; ENG-1400 English Composition. (Fee: \$50)

MATH-4130 Mathematical Statistics-Fa

3 hours

Topics include random variables, normal sampling theory, likelihood-based and Bayesian approaches to point estimation, confidence intervals, tests of hypotheses, and an introduction to regression and the analysis of variance. Prerequisites: MATH-2210 Logic and Methods of Proof; MATH-2710 Calculus III; MATH-3110 Probability and Statistics or MATH-3120 Theory of Probability: MATH-3610 Linear Algebra. (odd years)

MATH-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years) **MATH-4410**

Euclidean and Non-Euclidean Geometry-Sp

Rigorous treatment of the foundations of Euclidean geometry: an introduction to hyperbolic geometry with emphasis on its Euclidean models. Prerequisites: MATH-2210 Logic and Methods of Proof.

MATH-4450 Topology-Fa

3 hours

An introduction to elementary point set topology with emphasis on illustrating how the familiar concepts of closed and open intervals, continuity of functions, distances, and various geometrical properties have been generalized from classical mathematics. Topics include: metric spaces, topological space theory, separation axioms, covering properties, compactness, connectedness, metrizability, and complete metric spaces. Prerequisite: MATH-2210 Logic and Methods of Proof. (even

MATH-4610, 4620 Abstract Algebra I and II-Fa, Sp 3 hours/sem

Introduction to and development of the basic ideas of algebraic systems, groups, rings, integral domains, fields, and other advanced topics. Prerequisite: MATH-2210 Logic and Methods of Proof. (even years)

MATH-4710, 4720 Real Variables I and II-Fa, Sp

Introduction to the real number system's algebraic order, completeness, and cardinality properties, the topology of Cartesian spaces Rn and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and Ln. Prerequisites: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-4800

3 hours

Capstone Experience in Mathematics-Fa, Sp

The course will allow students to deeply research an important topic in mathematics, both individually and collectively, and to present their findings from library research as well as personal work. Prerequisites: MATH-3800 Research Methods in Mathematics; 15 hours of MATH courses 2XXX-level or above; permission of instructor. (Fee: \$20)

MATH-4880 Topics in Mathematics-Fa, Sp 1-3 hours

Some typical topics are linear programming, numerical analysis, stochastic calculus, non-parametric statistics, partial differential equations, or mathematical modeling. This course is intended to be a topic not in the current curriculum that is a logical extension and development of the student's academic plan. Prerequisite: permission of instructor.

MATH-4900

1-3 hours

Independent Study in Mathematics-Fa, Sp

Independent research in the various branches of mathematics and allied fields of application. Submission and approval of a research proposal must precede registration. Prerequisite: major in mathematics or permission of research advisor.

Mathematics Education (MTED)

MTED-3110 Clinical Teaching in Mathematics-Fa, Sp 1 hour

Students are assigned to assist a college instructor in classroom and laboratory teaching, evaluation, and related responsibilities. The student must complete 40 clock hours of clinical involvement in each teaching field for which licensure is desired. Prerequisite: completion of Introduction to Education Block.

MTED-3120 Teaching Mathematics-Fa

3 hours

Designed to introduce prospective secondary school mathematics teachers to the curriculum, materials, and methods of classroom teaching. Prerequisite: admission to the Teacher Education Program.

Physics: General Education (PHYS)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the Department of Science and Mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

PHYS-1010 College Physics I-Fa

4 hours

Basic concepts of mechanics using algebra and trigonometry. This is the first of a two course sequence intended for students in the life sciences and pre-professional programs. Topics include kinematics, motion in two dimensions, force and motion, torque and rotation, work and energy, momentum, circular motion, gravitation, oscillation, waves and fluid. Three lectures and one two-hour laboratory per week. Prerequisite: high school trigonometry; or GMTH-1030 Precalculus or equivalent. (Fee: \$75)

PHYS-1020 College Physics II-Sp 4 hours

Basic concepts of electricity, magnetism and modern physics using algebra and trigonometry. This is the second of a two course sequence intended for students in the life sciences and pre-professional programs. Topics include electricity, magnetism, circuits, and geometrical and physical optics, relativity theory, quantum theory and nuclear physics topics. Three lectures and one two-hour laboratory per week. *Prerequisite: PHYS-1010* College Physics I or equivalent. (Fee: \$75)

Physics: Major (PHYS)

PHYS-2110 General Physics I-Fa, Sp

4 hours

Basic concepts of mechanics using calculus. This is the first of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include linear and rotational motion in three dimensions, oscillatory motion, gravitation, fluid mechanics, and basic concepts of wave motion. Three lectures and one two-hour laboratory per week. Prerequisites: MATH-1710 Calculus I; Corequisite: MATH-1720 Calculus II. (Fee: \$100)

PHYS-2120 General Physics II-Fa, Sp

4 hours

Basic concepts of electricity and magnetism, light, and optics using calculus. This is the second of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include electricity, magnetism, Maxwell's equations, DC and AC circuits, geometrical and physical optics. Three lectures and one two-hour laboratory per week. Prerequisites: MATH-1720 Calculus II; PHYS-2110 General Physics I. (Fee: \$100)

PHYS-2130 General Physics III-Fa

Course Descriptions

2 hours

Basic concepts of thermodynamics and modern physics using calculus. This is the third of a three-course sequence intended for students in the physical sciences programs. Topics include heat and thermodynamics, relativity theory, quantum theory, atomic and nuclear physics. *Prerequisites: MATH-1720 Calculus II; PHYS-2120 General Physics II; PHYS-2120 may be co-enrolled with permission of instructor.*

PHYS-3110 Intermediate Physics Laboratory–Fa 2 hours

Designed to reinforce concepts of the advanced physics courses and develop critical research and analysis skills. This course provides laboratory experience in such topics as oscillatory motion and waves, mechanics, electricity and magnetism, thermodynamics, and quantum mechanics. During this semester the student will develop their prospectus for their advanced laboratory project. Laboratory skills for planning, setup, documentation, and analysis using the scientific method will be emphasized. *Prerequisite: 3 hours of a 3000- or 4000-level physics course.* (Fee: \$100)

PHYS-3310 Theoretical Mechanics-Sp

3 hours

Derivation of the motion of a point object through threedimensional space. Topics include an advanced treatment of Newtonian mechanics in three dimensions, oscillatory motion, accelerated frames of reference, central forces, and an introduction to Lagrangian mechanics. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations; MATH-2740 may be co-enrolled with permission of instructor. (even years)

PHYS-3330 Acoustics—Fa
This course will study the generation, transmission and reception of sound. Topics include wave propagation through the air resonance conditions for strings, here membranes and air.

air, resonance conditions for strings, bars, membranes and air cavities, acoustic filters, measurement and human perception of sound. Applications will be made to musical instruments, room acoustics, microphones, and speakers. *Prerequisites: MATH-2710 Differential Equations; PHYS-2110 General Physics I.* (even years)

PHYS-3350 Thermal Physics-Sp 3 hours

Study of the relationship between energy and matter through the use of thermodynamics and statistical mechanics. Topics include the laws of thermodynamics, heat, work, entropy, phase transformations, statistical distributions, and kinetic theory. *Prerequisite: PHYS-2130 General Physics III.* (odd years)

PHYS-3410 Electromagnetic Theory—Fa 3 hours
Electricity and magnetism from an advanced viewpoint using
the methods of vector calculus. Includes electrostatics, Gauss'

Law, Poisson's equation, Laplace's equation, dielectric media, electric currents, and magnetostatics. *Prerequisites: PHYS-2120 General Physics II: MATH-2710 Calculus III.* (odd years)

PHYS-3510 Modern Physics-Sp 3 hours

Introduction to relativity theory, quantum theory, including Schrodinger's Equation, and its basic applications, and atomic structure. *Prerequisite: PHYS-2130 General Physics III.*

PHYS-3800 Research Methods in Physics-Sp 1 hour

Reinforces concepts of the advanced physics courses and develops critical research and analysis skills. This course will focus on basic library, research, and laboratory skills for planning, setup, documentation, and analysis using the scientific method. Selected software will be introduced and used to collect data, analyze results, and document findings. There will be several laboratory sessions with experiments selected from oscillatory motion and waves, intermediate mechanics, intermediate electricity, intermediate magnetism, thermodynamics, or quantum mechanics. *Prerequisite: PHYS-2130 General Physics III.* (Fee: \$50)

PHYS-4110 Advanced Physics Laboratory-Sp

2 hours

The advanced laboratory experience is designed to reinforce concepts of the advanced physics courses and to develop critical research design, documentation, analysis, and presentation skills. The advanced laboratory provides additional experience in optical, radiation, wave, advanced mechanics, advanced electromagnetism, advanced thermodynamics, and quantum mechanics. During this semester the students will be conducting their advanced laboratory project, collecting data, and documenting results. Laboratory skills for planning, setup, documentation, analysis, and briefing using the scientific method will be emphasized. *Prerequisite: PHYS-3110 Intermediate Physics Lab.* (Fee: \$100)

PHYS-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. *Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.* (odd years)

PHYS-4450 Optics 3 hours

Introduction to the study of classical and modern optics, including geometric optics, wave optics, and quantum optics. Topics include thin lenses, thick lenses and systems of lenses, mirrors, aberrations, lens design, interference, coherence, diffraction, polarization, and holography. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.*

PHYS-4520 Quantum Mechanics-Fa

3 hours

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger's Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. *Prerequisite: PHYS-3510 Modern Physics*. (even years)

PHYS-4800 Senior Seminar-Physics-Fa, Sp 1 hour

A presentation of the basic principles of the major disciplines of the sciences with a focus on the interrelationships of the science disciplines to each other. Students present a paper from library or laboratory research in their area of physics with a focus on integration. Each student must obtain approval of the topic from their advisor and seminar instructor and must set the date of presentation before enrolling in the course. A paper and oral presentation are required that include the background, setup, data collection, analysis, and conclusions from their research. The student must also attend a minimum of 10 seminars during the senior year. Guest lecturers and faculty members may present papers at the invitation of the instructor. Prerequisite: Senior status; PHYS-3110 Intermediate Physics Lab; attendance of a minimum of 10 seminars during the sophomore and junior years; permission of instructor.

PHYS-4880 Topics in Physics

Study of topics of interest from modern and classical physics such as quantum theory, relativity, statistical mechanics, lasers, solid state physics, advanced classical mechanics, and atmospheric physics. *Prerequisites: PHYS-2130 General Physics III: MATH-2710 Calculus III.*

PHYS-4900 Independent Study in Physics 1–3 hours

Independent research in the various branches of physics and allied fields of application. Submission and approval of a research proposal must precede registration. *Prerequisite:* permission of instructor. (Fee: \$25/hour)

1-3 hours

Science Education (SCED)

SCED-3120 Teaching Science-Fa

3 hours

This course presents the professional knowledge, skills, methods, and instructional strategies required for teaching adolescent and young adult science, based on Ohio Educator Standards and NSTA science teacher preparation standards within the context of a biblical framework. Emphasis will be given to the facilitation of learning and innovation skills for adolescents and young adult students. Prerequisite: admission to the Teacher Education Program. (Fee \$100)

Department of Social Work Course Descriptions

Social Work (SWK)

SWK-1100 Total Immersion Experience-Sp

1 hour

This course is available to all students interested in the helping professions. It is primarily a course designed for social work students who will receive a pre-professional experience in social work. The student's participation will be in a social service agency, "shadowing" a social worker who has a degree in social work or who is licensed in social work. (Fee: \$60)

SWK-2330 Introduction to Social Work-Fa, Sp

3 hours

Introduction to Social Work introduces the social work profession and a variety of fields of social work practice. It includes a study of the historical development of social work. Content will emphasize an overview of the biblical foundation for the social work profession. Crosslisted as SOC or SWK. (Fee: \$55)

SWK-2350 Field Survey-Fa, Sp

2 hours

Experiential learning through visitation and observation of social workers and intradisciplinary teams in agency settings. It also provides exposure to fields of social work practice, the role of social work, and the agency structure. There is a special emphasis on understanding a biblical view of the diverse populations social workers serve. A series of field trips will provide students with an understanding of agency structure, the role of a social worker in a variety of settings, generalist social work practice, the dynamics of giving and taking help, and how to establish a professional helping relationship. Does not count toward social science elective for general education. (Fee: \$40)

SWK-2500 Social Work with Aging Populations-Fa 3 hours

This course is designed to complete the undergraduate program and thus equip the student for beginning professional social work practice with the elderly population. Focus is on knowledge of the issues related to aging, exposure to the different types of social work and agencies that service the elderly and the varied social work careers related to serving the aged. The course will examine aging, the role of caregiving, grief, death, and dying from a biblical worldview.

SWK-2820 Social Work in Mental Health Settings-Sp 3 hours

This course will provide an exposure to contemporary issues of social work practice in mental health settings, with an emphasis on a biblical worldview. This is a survey course and will critically examine the system of care and issues that currently exist for individuals, families, and communities in the field of mental health. SWK-2840

Concepts of Chemical Dependency-Fa

Available to all students. This course presents an overview of the social, economic, political, legal, spiritual, and ethical considerations concerning the use and abuse of alcohol and other drugs in our culture. A primary emphasis of the course includes application of a biblical perspective to assess use of various philosophies and perspectives on drugs and abuse. Treatment and prevention options for individuals and families will be discussed. Crosslisted as CRJU, PYCH, SOC, or SWK.

SWK-2900 Ethics in the Helping Professions-Sp 3 hours

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view keeping in mind the ramifications decisions have on practice, services, and clients. Students learn to address delimmas by drawing upon Scripture, professional values, and ethical principles as presented in the National Association of Social Workers Code of Ethics, as well as codes of ethics from other helping professions. The importance of human rights, justice, and mercy are incorporated throughout the course content. Crosslisted as SOC or SWK.

SWK-3010 3 hours Human Behavior and the Social Environment-Fa

This course will provide an examination of the social systems approach to understanding human behavior with families, groups, organizations, and communities. Particular focus will be on the relationship among biological, social, psychological, and cultural systems as they affect and are affected by human behavior. Prerequisite: admission to the social work program.

SWK-3020 3 hours

Generalist Social Work Practice with Groups-Fa, Sp

This course provides students with the opportunity to develop an understanding of group theories, methods, and skills for generalist practice with diverse groups of client systems. Emphasis will be placed on the importance of being a culturally sensitive group facilitator. A field trip may be required. Prerequisite: admission to the program or permission of the instructor. (Fee: \$45)

SWK-3110 Social Welfare Programs and Policy-Fa 3 hours

Survey of the American social welfare system. Analysis of the history, purpose, programs, and assessment of this system from a biblical theistic point of reference. Examines social welfare policies and programs in relation to their effects on specific populations in need in U.S. society. Within a historical and political context, current social welfare programs and policies are further examined in terms of underlying assumptions and values, substance, implementation, and effectiveness. Considers major questions of social choice and the underlying criteria for the funding and delivery of social services. Policy analysis will be a major focus. Prerequisite: admission to the social work program. (Fee: \$35) SWK-3210 4 hours

Social Work Practice with Individuals and Families-Fa,Sp

This 4-hour course is taken concurrently with 16 hours per week field experience designed to teach social intervention theory with practice. Emphasis will be given to the basic principles and values of practice in acquiring values, skills, theory, and principles of social work practice as well as the skill developments essential to beginning social work relationships. Intervention strategies for work with families and target groups are presented with an orientation toward problem-solving. The goal of this course is to assist the student in integrating theory with practice and in gaining awareness of the professional use of self. Professional writing skills are further developed. Prerequisites: admission to the social work program.

3 hours

1-3 hours

SWK-3430 Junior Seminar I-Fa and SWK-3440 Jr Field Experience I-Fa

1 hour 3 hours

Junior Field Experience I is the placement of students in a poverty focused social service agency. The first four weeks will be one hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their junior experience. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour, where the student will receive input from peers and faculty. Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3430 and SWK-3440 be taken concurrently. (Fee: \$150)

SWK-3450 Junior Seminar II-Sp 1 hour and SWK-3460 Jr Field Experience II-Sp 3 hours

Junior Field Experience II is the placement of students in a poverty-focused social service agency. Each student will be in field for a minimum of 75 hours, practicing eight hours weekly with clients and agency staff under the supervision of a qualified field instructor. Seminar class will meet once a week for one hour where the student will receive input from peers and faculty. The last four weeks will be one-hour orientation sessions designed to inform and equip the student to complete all assignments required before entering their senior field seminar. Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-3450 and SWK-3460 be taken concurrently. (Fee: \$150) **SWK-4210** 3 hours

Social Work Practice with Diverse Populations-Fa

This course is the second part of a three-course sequence in acquiring values, skills, and knowledge of generalist social work practice. Intervention strategies for practice with a wide variety of populations will be presented, including people of different religions; women; lesbian, gay, bi-sexual, and transgendered people; children and youth; the elderly; disabled; Appalachian; African Americans; Asian Americans and Pacific Islanders; American Indians; Mexican Americans; Hispanics and Puerto Ricans; and refugees and immigrants. Prerequisite: admission to the social work program. (Fee: \$15)

SWK-4220 4 hours

Social Work Practice with Communities and Organizations-Sp

Designed to complete the undergraduate program and thus equip the student for beginning professional social work practice. Focus is on competency in social work practice in multiple macro settings as a generalist in problem solving and social change. Prerequisites: admission to the social work program (Fee: \$80)

SWK-4440 Special Topics-Social Work

Investigation of specific topics in Social Work that have intrinsic worth and engage student interest.

SWK-4510 Senior Seminar I-Fa 2 hours and SWK-4560 Senior Field Experience I-Fa 6 hours

This course offers students the opportunity to practice social work 16 hours weekly with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer feedback to their peers. Emphasis is placed on the integration of students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. Prerequisite: admission to the social work program. Corequisite: It is recommended that SWK-4510 and SWK-4560 be taken concurrently. (Fee: \$250)

SWK-4520 Senior Seminar II-Sp 2 hours and SWK-4570 Senior Field Experience II-Sp 6 hours

These courses offer students the opportunity to practice social work 16 hours weekly, with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer criticism to their peers. Emphasis is placed on the integration of the students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. Prerequisite: admission to the social work program. Corequisites: It is recommended that SWK-4520 and SWK-4570 be taken concurrently. (Fee: \$250) SWK-4610 Statistics for Social Workers-Fa

This course provides an introduction to the conceptual and quantitative tools used to describe and interpret data in the conduct of social work practice and research. Students learn how to select, calculate, analyze, and interpret statistics applicable to common social work situations related to direct practice, administration and planning, and policy making. Students will be able to recognize the statistical impact that race, gender, age, sexual orientation and other relevant variables have on many psycho-social-spiritual variables during computer labs using SPSS statistical software and current GSS database. *Prerequisite:* admission to the social work program or permission of the instructor; students must have satisfied Cedarville's mathematics proficiency requirement before enrolling.

SWK-4620 Social Work Research Methods-Sp

Designed to survey the basic process of research methods as practiced in the social sciences. Underlying principles of science and logic are emphasized and special attention is directed toward the recognition of common sources of error and bias in the implementation and interpretation of research studies as it affects the outcomes of research utilization. Students will be better prepared to recognize the impact of special population variables (age, race, gender, etc.) on the research process. Prerequisite: admission to the social work program.

SWK-4950

Independent Study in Social Work Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Financial Information

Fin	ancial Information	311
>>	University Financial Operation Policy	311
>>	Student Costs	311
>>	Summary of Costs — Undergraduate	311
>>	Financial Registration Policy	311
>>	Making Payment	312
>>	Notification of the University Bill	312
>>	Invoices and Statements Online	
>>	Payment Penalties	312
>>	Interest Rates	312
>>	New Student Reservation Deposit	
	Refund	312
>>	Continuing Student Reservation Deposit	
	Refund	312
>>	Withdrawal Refunds	313
>>	Tuition Refund Schedule	313
>>	Return of Title IV Funds, Policy and	
	Regulations	313
>>	Veterans Training Benefits and Depende	nts
	Educational Assistance	315
>>	Deferred Payment Plan for Veterans	315
Fin	ancial Aid	315
>>	General Information	315
Ins	titutional Grants and Scholarships	315
>>	Academic Scholarships	315
>>	Transfer Student Aid	316
>>	Department Scholarships	316

State Grant Programs	316
» Ohio College Opportunity Grant	
» Ohio National Guard Tuition Assistance	
Program	316
» Ohio War Orphans Scholarship	
» State Grant Refund Policy	316
» Other State Grants	316
Federal Grants	316
» Federal Pell Grant	316
» Federal Supplemental Educational	
Opportunity Grant (SEOG)	316
» Teacher Education Assistance for College	
and Higher Education Grant (TEACH)	316
United States Military Scholarships	317
» Army Scholarships	317
» Army National Guard Scholarships	317
» Air Force Scholarships	
Donor-Funded Scholarships	317
Federal Direct Stafford Loans	317
» Federal Subsidized and Unsubsidized	
Stafford Loans	317
» Federal Parent PLUS Loans	
Student Employment	317
» Federal Work Study	317
» Campus Employment	317
» Off-Campus Employment	317
Standards of Satisfactory Academic Progres	s fo
Recipients of Financial Aid	318
» Policy	
» Student Rights	318
» Student Responsibilities	

Financial Information

University Financial Operation Policy

The University keeps the application fee, tuition, room, board, and other fees as low as possible to be consistent with responsible operation. The revenue from students does not cover the total cost of operation.

Individuals and churches who desire to share in the preparation of young people for effective Christian service in all walks of life partially support the University. Some funds are received from interested businesses, industries, and foundations. Student costs as stated are subject to change upon reasonable notification by the University.

Student Costs

Tuition — Undergraduate

Block tuition (12–17 credits)	\$1,225
Pharmacy courses (PPHR) tuition per semester credit Tuition — College Now	\$1,120
Per semester credit	\$175
ICC Block Tuition	
ICC over block (17.5 & above)	\$1,139
Audit tuition Within blockno addition	al charge
Under block or over block rate per credit	
Test-out fee per course	
Fees	
Application fee	\$30
21-Meal Plan – fall/spring	1,784
14-Meal Plan – fall/spring	
10-Meal Plan – fall/spring	
Car registration fee - annual	100
Drop/add (course) fee	5
Graduation fee	75
Late payment fee	25
Late registration	50
Non returned/Late/Lost room key	75
New student fee	
Commuting student – fall semester	
Commuting student – spring semester	
Resident student – fall semester	
Resident student – spring semester	80
Online course technology fee per credit	
Returned item fee	
*Reservation deposit for new and transfer students	
Room fall/spring per semester-standard rate	
Townhouse rate per semester	3,212
Student fee per semester	
Full-time students	
Part-time students	
Students taking 5 credits or less AND distance learner	
Transcript fee	10
*refundable upon withdrawal	
For other dorm rates see Residence Life	

For other dorm rates see Residence Life

Senior citizens may enroll in courses for credit or no credit on an available space basis at no tuition charge. Senior citizens are those individuals 62 years of age or older who are considered to be retired according to the Social Security Administration. Please complete a form obtained from the Cedarville University Human Resources Department. Call Ext. 7885 on campus.



Summary of Costs — Undergraduate

Institutional Costs

Estimated basic costs for the academic year of 2019–20 (excluding transportation, personal expenses, books, and laboratory fees):

Tuition (based on an average of 32 semester hours) Board (Weighted average) (meal plan)	
Room	,
Student fee	
Total Estimated Costs	\$40 484

Miscellaneous Costs

Other yearly expenses may be estimated as follows:
Books and supplies\$1,248
Personal expenses (including clothing, recreation, and
personal items) Note: laundry included with room1,770
Transportation (based on area of residency)various

Financial aid may be available to help defray costs. See the Financial Aid section of this catalog for additional information concerning available funds and application procedures.

Financial Registration Policy

To enable the University to be responsible in meeting its financial responsibilities, students must make provision for the payment of their bill on the due dates established by the University each semester. A student's registration for courses indicates a commitment to pay for related charges as stated in the University catalog.

The following payment plan schedule was established to help students care for this responsibility:

	Fall 2020	Spring 2021
First Payment Due:	Aug. 4, 2020	Jan. 4, 2021
Second Payment Due:	Sept. 1, 2020	Feb. 1, 2021
Third Payment Due:	Oct. 1, 2020	March 1, 2021
Fourth Payment Due:	Nov. 1, 2020	April 1, 2021

A student is not considered financially registered until at least the first one-fourth payment has been received by the Cashiers Office. Students who do not make financial arrangements for the first payment due on their University bill will not be permitted to attend the University. Failure to make subsequent payments could result in the loss of dining hall and library privileges and the withholding of grades and online registration.

Financial Information Financial Information

Making Payment

Students and parents may pay their University bill using several payment methods, including check, cash (in person), debit/credit card with a convenience fee, or online through our student finance E-commerce portal. For your protection, please do not mail cash.

Please send payments made payable to:

Attn: Cashiers Office Cedarville University 251 N. Main Street Cedarville, OH 45314

*Please remember to include your student ID# and student name on all checks. For online payments, please visit the student finance SelfService portal-"make a payment".

For more information on payment options, visit the Cashiers Office website at **cedarville.edu/cashiers**.

Notification of the University Bill

Students who preregister will receive a billing notice based on their preregistration schedule 20 to 30 days before the semester begins. Students are responsible for making their payments by the due dates. Monthly notices are sent via email to the student's Cedarville University email. The student can request the invoice/statement be sent to additional email accounts. Paper invoices/statements can also be requested for a \$3/month fee. You may view your student account history at any time by going to the student SelfService portal and selecting "View your statement."

Invoices and Statements Online

Students may view their student account activity, and most recent transactions online using SelfService. Students may also assign their parents a password, giving them access to their student account activity. Parents can view this information by logging onto SelfService through their own Internet service provider.

Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the dining hall and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$25. Students with unpaid balances at the end of the semester may be denied grade reports, transcripts, diploma, or enrollment in the next semester. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.

Cedarville University in accordance with the Veterans Benefits and Transition Act of 2018 will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veteran Affairs. This policy is limited to tuition funds paid by the U.S. Department of Veteran Affairs.

Interest Rates

An annual interest rate of 7 percent daily simple interest, will be charged during the academic year on accounts of current students. An annual interest rate of 13 percent (1.083 percent per month) will be charged during the academic year on accounts of students no longer enrolled and on all student accounts during the summer months. (May–July)



New Student Reservation Deposit Refund

A reservation deposit must be submitted by new students as an indication of the intention to enroll. The amount of the deposit is \$250. This money will be credited to the student's deposit account. A student must have a reservation deposit in order to be registered for courses.

The reservation deposit is fully refundable if the request for refund is received in writing before the reservation deposit deadline. No refunds are available after the deposit deadline date.

Reservation deposit deadlines are as follows:

Term	Deadline
Fall Semester	May 1
Spring Semester	Nov. 1
Summer Session	May 1

Continuing Student Reservation Deposit Refund

Full (100 percent) refunds will be made to continuing students who notify the University by June 1 of their intent to withdraw. If a continuing student notifies the University between June 2 and July 1 of their intention not to return fall semester, \$150 of their deposit will be refunded. No refunds will be made after July 1.

Withdrawal Refunds

Tuition

Students withdrawing from the University before the end of a semester may request a refund from the Cashiers Office. Refunds may be requested anytime after the beginning of a semester. The effective date of the withdrawal from the University is the last day of class attendance as determined by the Office of the Registrar.

Processing of refunds will begin the third week of the semester. Tuition refunds for withdrawal are granted on this schedule:

Tuition Refund Schedule

fultion Refund Schedule		
	Withdraw	Withdraw
	from University	from Class
14-16-Week Class		
Week* class begins	100%	100%
Week* 1 (first full week)	75%	75%
Week* 2	50%	0%
Week* 3	25%	0%
12-Week Class		
2 weekdays** from start of class	100%	100%
6 weekdays** from start of class	75%	75%
10 weekdays** from start of class	50%	0%
14 weekdays** from start of class	25%	0%
•		
8-Week Class		
2 weekdays** from start of class	100%	100%
4 weekdays** from start of class	75%	75%
7 weekdays** from start of class	50%	0%
9 weekdays** from start of class	25%	0%
·		
4-Week Class		
1 weekday** from start of class	100%	100%
2 weekdays** from start of class	75%	75%
3 weekdays** from start of class	50%	0%
5 weekdays** from start of class	25%	0%
·		
For classes 3 weeks or less		
2 weekdays** from start of class	100%	100%
3 weekdays** from start of class	0%	0%
·		
All other Classes		
4% from start of class	100%	100%
10% from start of class	75%	75%
17% from start of class	50%	0%
23% from start of class	25%	0%

^{*}A week ends at the close of business (5:00 p.m.) on Friday.

Course offerings changed or deleted by the University entitle a student to a full refund of tuition and related course fees. Students withdrawing from a course or courses will be granted a full tuition refund to apply toward courses added. If the new total hours are fewer than the original total, the above refund schedule will apply.

Board/Meal Plan

Board charges will be refunded on a prorated weekly basis. Board weeks begin on Sunday and end on Saturday. Board refunds are computed based on the last day of residency. Board contracts are required for all students living in the residence halls. Students may choose from seven available meal-plan options.

Room

Rooms are reserved for each student for an entire semester. No refund of room rent is made except in cases of severe illness or incapacity. Written confirmation of the illness or incapacity must be provided by the director of University Medical Services or a physician. Room rent will then be refunded on a prorated basis.

Other Fees

No other fees are refundable except for withdrawal within the first calendar week of the semester.

Return of Title IV Funds, Policy and Regulations

The term "Title IV Funds" refers to the Federal Financial Aid Programs authorized under the Higher Education Act of 1965 (as amended). The following are considered Title IV programs at Cedarville University:

- Unsubsidized Federal Direct Loan
- Subsidized Federal Direct Loan
- Federal Direct Plus Loan (Parent)
- Federal Pell Grant
- Federal Supplemental Grant (FSEOG)
- · Federal TEACH Grant
- · Iraq and Afghanistan Service Grant

A student's federal financial aid eligibility must be recalculated and these regulations apply when a student fails to complete the period of enrollment for which he/she was charged due to one or more of the following situations:

- · Change in a student's schedule, which results in fewer credit
- · Course or courses dropped or withdrawn
- Cancellation of a class by the college
- Total withdrawal or expulsion from the college

As the recipient of Title IV aid, it is the student's responsibility to earn the aid provided for their period of enrollment. Students who find it necessary to withdraw must go to the registrar's office to begin the official withdrawal process.

Please refer to the online catalog for determination of the student's withdrawal date.



^{**}A weekday is defined as Monday through Friday. A day ends at 5 p.m., Eastern Standard Time.

Financial Information Financial Information

Federal regulations state that a student must attend past the 60% point of the semester in order to earn 100% of their federal financial aid. Students are issued financial aid before 100% of their aid is earned. This is in "good faith," meaning that students are expected to follow through by attending and completing all classes.

When a recipient of Title IV aid withdraws from an institution during the semester in which the recipient began attendance, the institution must determine the amount of the Title IV grant or loan assistance (not including Federal Work Study) that the student earned as of the student's date of withdrawal. Federal Regulations mandate that a school perform a "Return to Title IV" calculation for federal aid recipients who withdraw from all classes or receive Financial Aid unearned 'F'. This calculation determines how much federal aid a student has earned up to the date of withdrawal. If more assistance is received than what is earned, the unearned funds must be returned. The requirements for the "Return to Title IV" calculations are separate from Cedarville University's refund policy.

In accordance with federal regulations, when financial aid is involved, return of T-IV funds are allocated in the following order:

- 1. Unsubsidized Federal Direct Stafford Loan
- 2. Subsidized Federal Direct Stafford Loan
- 3. Federal Direct PLUS Loan
- 4. Federal Pell Grant
- 5. Iraq and Afghanistan Service Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- 7. Other Title IV Assistance

Responsibility of the University

Cedarville University Office of Financial Aid responsibilities in regard to the Return of Title IV funds include

- · Providing each student with information given in this policy.
- Identifying students who are affected by this policy and completing the Return of Title IV Funds calculation for those students.
- Returning any Title IV funds that are due to the Title IV programs as soon as possible, but no later than 45 days from the determination of a student's withdrawal.
- Offering a post-withdrawal loan disbursement within 30 days
 of the date the school determined the student withdrew and
 issuing a post-withdrawal grant disbursement within 45 days
 of the date the school determined the student withdrew, if a
 student has eligibility for the Title IV funds.
- Though Cedarville University is not required to take attendance, instructors are expected to monitor enrollment regularly and notify the registrar's office of non-attendance.
- The registrar's office contacts the student and the instructor to determine the last date of academic related activity.

Responsibility of the student

The student's responsibilities in regard to the Return of Title IV Funds include

- Returning to the Title IV programs the dollar amount of any funds disbursed directly to the student subsequently determined to be ineligible via the Return of Title IV Funds calculation.
- Official withdrawal information is found in the online catalog (page 30).

Special Provisions for Books and Supplies

Federal regulations (34 CFR 668.164(i))dictate that if an undergraduate student has a T-IV credit balance on their account 10 days prior to the semester, they are able to use their credit balance amount to obtain their books and supplies through the 7th day of the payment period. The school may use the actual costs of books and supplies or allowance for those materials used in estimating the student's cost of attendance for the period.

A student may opt out of the book voucher by simply not utilizing the established process in place. If a student does opt out, your T-IV credit balance will be issued to you through the normal process.

In addition, Cedarville University allows all undergraduate students to receive a voucher for books and supplies. There is a \$1,000 cap on the limit. If a student has an invoice above this amount, on a case-by-case basis, with Cashier authorization, the limit may be increased. The timeframe to use the voucher is from the first week of August through the first week of September.



Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 33, 35, and 1606, U.S. Code for Education of Veterans and Their Dependents. Students under Chapters 30, 32, 35, and 1606 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition, fees, books, and supplies. Cedarville University is a participant in the VA Yellow Ribbon Program. Those students eligible to receive Chapter 33 Post-9/11 benefits at 100% may qualify to receive benefits through the VA Yellow Ribbon program.

Inquiries concerning eligibility should be directed to a Veterans Administration Regional Office or by calling (888)442-4551. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the University in disability cases to accomplish this requirement for the student.

Cedarville University students eligible for veterans benefits should contact the veterans benefits counselor in the Office of the Registrar.

Cedarville University in accordance with the Veterans Benefits and Transition Act of 2018 will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veteran Affairs. This policy is limited to tuition funds paid by the U.S. Department of Veteran Affairs.

Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under Chapters 30, 31, 32, 33, and 35) receiving the Educational Assistance Allowances, consult the Office of the Registrar.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

Fall Semester: 1st payment by 10/4

2nd payment by 11/1 3rd payment by 12/1 Final payment by 1/1 1st payment by 2/4

Spring Semester: 1st payment by 2/4 2nd payment by 3/1 3rd payment by 4/1

Final payment by 5/1

A late payment charge of \$25 is applicable for accounts unpaid after the payment due date.

Veterans receive eight monthly VA checks that must pay for eight deferred payments on the semester system.

Financial Aid

When completing the FAFSA, the Title IV Code for Cedarville University is **003025.**

General Information

Cedarville University offers a variety of financial aid programs to assist students with education-related expenses. Although Cedarville University supports the premise that the primary responsibility for financing a college education rests with the student and family, aid programs are available to supplement personal resources.

Some of the financial aid available at the University is considered to be *need-based aid*. Students are asked to complete and submit the Free Application for Federal Student Aid (FAFSA). It is not necessary to file your federal taxes before completing your FAFSA as estimated data may be used. An analysis of the family's financial data is performed and the results are used to determine the eligibility for need-based assistance. For filing online, obtain an FSA ID for **both** the parent and student and complete the FAFSA at **fafsa.ed.gov**.

In addition to *need-based aid*, the University also offers *merit-based aid* to students who demonstrate recognized achievement or talent. Merit scholarship categories include academic, leadership, athletic, music, forensics, theatre, and debate.

Financial Aid serves as a resource center to assist students and their families in exploring alternative sources of educational funding. The financial aid homepage has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the Internet and accessing **cedarville.edu/finaid**.

Students should advise Financial Aid when they receive additional assistance from sources other than Cedarville University. This assistance will be considered when preparing award packages and may result in the revision of a previously prepared package.

A financial aid award notification will be provided to students after reviewing completed application data and after a student is accepted for admission to Cedarville University. Financial aid is applied for and awarded on a yearly basis. Aid applicants must continue to meet program qualifications in order to retain eligibility.

All questions may be directed to Financial Aid at 937-766-7866. Visit Cedarville's financial aid website at **cedarville. edu/finaid** and the FAFSA website at **fafsa.gov.**

Institutional Grants and Scholarships

All awards are based on full-time enrollment (minimum of 12 degree-seeking credit hours). Students who enroll for fewer than 12 hours will have their awards removed. For complete information, see **cedarville.edu/scholarships**.

Academic Scholarships

- President's Society Fellows Scholarship Students who have a minimum 34 ACT (1490 SAT, 104+ CLT) and a 4.0 GPA. The award amount is up to \$20,000.
- President's Excellence Scholarship Students who have a minimum 31 ACT (1390 SAT, 94+ CLT) and a minimum 3.75 GPA; or the student is identified as a National Merit or National Achievement Finalist/Semi-finalist. The award amount is up to \$15,000.
- Chancellors Excellence Scholarship Students who have a minimum 27 ACT (1260 SAT, 84+ CLT) and a minimum 3.5 GPA. The award amount is up to \$13,000.
- Dean's Excellence Scholarship Students who have a minimum 25 ACT (1200 SAT, 78+ CLT) and a minimum 3.2 GPA. The award amount is up to \$11,500.

Financial Information State Grant Programs

- Faculty Excellence Award Students who have a minimum 22 ACT (1100 SAT, 72+ CLT) and a minimum 3.0 GPA. The award amount is up to \$9,500.
- Cedarville Achievement Scholarship \$6,000 (all other students).

Other Need-Based Scholarships

 CU Fund Scholarship – Students who have financial need according to FAFSA. The award amounts are variable.

Competitive Scholarships

- One Campus Scholarship The One Campus Scholarship is awarded to students seeking to enhance the Cedarville community through their personal experience and appreciation for ethnic and cultural diversity. An application is required.
- Presidential Ministry Impact Scholarship Celebrating Cedarville's strong support for the local church and those who invest their lives in full-time ministry, this scholarship is awarded to selected students whose parent is in full-time ministry and who demonstrate excellent Christian character and leadership abilities. An application is required.

Transfer Student Aid

For complete information see cedarville.edu/transfer.

Department Scholarships

- Athletic Contact Athletics or coach
- Debate Team or Speech Team Contact the Department of Communication
- Music Contact the Department of Music and Worship
- · Pharmacy Contact the School of Pharmacy
- Theatre Contact the Department of Art, Design, and Theatre
- Worship Contact the Department of Music and Worship

State Grant Programs

Ohio College Opportunity Grant

Ohio residents who have an expected family contribution of \$2,190 or less and family income less than \$96,000 may be eligible for the Ohio College Opportunity Grant. The FAFSA filing deadline is October 1.

For additional information about all the Ohio student aid programs visit the Ohio Department of Higher Education website at ohiohighered.org.

Ohio National Guard Tuition Assistance Program

This program assists Ohio National Guard members who are full-time students, at least 17 years old, and enlisted for a period of six years. Up to eight semesters of instructional and general fees will be paid for the student. After basic and specialty training, guardsmen meet one weekend a month and two weeks during each summer. In addition to the tuition assistance, the time spent on duty is paid according to rank. Both men and women are accepted into this program, and proof of financial need is not a requirement. For more information, call collect 937-323-6704 or write to: Ohio National Guard, Educational Opportunities, 2825 West Granville Rd., Worthington, OH 43085.

Ohio War Orphans Scholarship

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full-time and be making satisfactory academic progress. For more information, contact the Ohio Department of Higher Education, Student Assistance Office, Ohio War Orphans Scholarship, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

State Grant Refund Policy

Students who qualify for state grant funds must be registered for at least 12 credit hours per semester in order to receive benefits. Students withdrawing or dropping below full-time status during the semester will have their grant payments adjusted according to grant refund policy. Questions pertaining to refund policy should be directed to Financial Aid.

Other State Grants

Students from the following states may be eligible for state grant programs. Contact your state's higher education authority for eligibility criteria. The first step in applying for a state grant is to complete the FAFSA.

- Pennsylvania 1-800-692-7392
- Vermont 1-800-642-3177
- Delaware 1-800-292-7935

Federal Grants

Federal Pell Grant

A student who is a United States citizen, or who is in the United States for other than a temporary purpose and intends to become a permanent resident, or who is a permanent resident of the Trust Territories of the Pacific Islands or of the Northern Mariana Islands, may be eligible for a federal grant through the School of Education. All students with financial need are encouraged to apply for this grant by using the FAFSA.

Students who meet the Pell eligibility requirements and have a set expected family contribution on the FAFSA are eligible for a Pell Grant.

All awards are based on full-time enrollment (12 hours or more). Students who enroll for fewer than 12 hours will have their awards prorated according to the following schedule:

12 hours or more = Full award

9-11.99 hours = 3/4 award

6-8.99 hours = 1/2 award

1-5.99 hours = Less than half-time award

Federal Supplemental Educational Opportunity Grant (SEOG)

A Federal grant for the School of Education that is awarded to students with exceptional need. Exceptional need is described as being eligible to receive a Pell grant. However, due to limited funding, being Pell-eligible does not guarantee SEOG eligibility.

Teacher Education Assistance for College and Higher Education Grant (TEACH)

The TEACH Grant provides funds to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. The TEACH Grant has conditions which must be met, otherwise the grant is converted into a direct unsubsidized Loan. The following website provides the full details for the TEACH Grant:





Financial Information United States Military Scholarships

United States Military Scholarships Army Scholarships

Two, three, and three and one-half year scholarships are available for students who enroll in Army ROTC. These scholarships pay all tuition, fees, and textbooks, plus \$250–\$400 per month for 10 school months per year. For additional information, contact the professor of military science at Central State University, Wilberforce, OH 45384 (937-376-6657 or 937-376-6279), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Army National Guard Scholarships

These scholarships pay up to \$1,000 per school year and are available for those who qualify. Additional information pertaining to these scholarships is available from the professor of military science at Central State University, or from Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Air Force Scholarships

Air Force ROTC scholarships are available, paying for the cost of tuition, fees, and textbooks, plus \$150 per month for 10 school months, to students who demonstrate academic and leadership potential. Students interested in Air Force ROTC should contact the Department of Aerospace Studies, Wright State University, Dayton, OH 45435 (937-775-2730), or call Nicholas Miller, Assistant Registrar at Cedarville University, at 937-766-7710.

Donor-Funded Scholarships

Through the generosity of alumni, faculty, staff, and friends, more than 250 donor-funded scholarships are available to Cedarville students. These scholarships are established and funded by individuals who create a scholarship and determine award criteria. Candidates must complete the Free Application for Federal Student Aid (FAFSA) and/or a scholarship application or essay to be considered for these awards. The department of financial aid or committees from academic and University departments typically select the recipients. Review the list of donor-funded scholarships online at **cedarville.edu/donorfunded**.

The personal connection between donors and the students they support plays a significant role in the continued funding of these scholarships. Recipients are asked to express their thanks to their donors in the following ways:

- · Send a timely letter of appreciation to your donors.
- Attend the Honors Day reception in April (if applicable).
- Attend the scholarship reception and Legacy Banquet on Homecoming weekend.

Federal Direct Stafford Loans

Federal Subsidized and Unsubsidized Stafford Loans

Federal Stafford Student Loan funds are available to dependent or independent undergraduate students. The federal government will subsidize (pay) the interest on subsidized loans while the student is in school and during a six month grace period following withdrawal or graduation. For detailed information see cedarville.edu/Loans.

In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit may be prorated based on the number of credits remaining to complete the program of study. Specific questions relating to the federal regulations outlined above may be directed to Financial Aid.

Federal Parent PLUS Loans

Federal PLUS loan funds are available for creditworthy parents to borrow on behalf of their dependent students. This loan program is not based on financial need and may be used to replace all or part of the expected family contribution. Parents may borrow up to the cost of education less any financial aid the student is receiving. The U.S. School of Education, who serves as the lender, generally deducts origination fees that are determined annually. Repayment begins within 60 days following the final disbursement of the loan.

Student Employment Federal Work Study

This federally funded program is designed to provide work opportunities for University students. Students in this program may qualify for up to 20 hours of work a week during the academic year, providing they show a demonstrated need based on their FAFSA. Actual hiring is handled by the department supervisors who will employ the students. As with campus employment, actual job placement, number of hours worked, and total dollar amount earned cannot be guaranteed by Financial Aid. Community service positions are also available in this program. Visit **cedarville.edu/studentemployment** for more information.

Campus Employment

Although unable to guarantee actual job placement, the number of hours worked, or total dollar amount earned, Cedarville University assists needy students by recommending them for part-time employment. Students are employed in various part-time jobs on campus such as maintenance, dining hall, housekeeping, and others.

Part-time student employment is not restricted to upperclassmen and is encouraged at all levels.

Off-Campus Employment

Because of the University's reputation for attracting quality students, many area employers contact Career Services to employ students on a part-time basis. Though no formal restrictions pertain to this employment, students are encouraged to limit their working hours to approximately 20 hours per week to ensure sufficient time to study.

Financial Information Standards of Satisfactory Academic Progress for Recipients of Financial Aid

Standards of Satisfactory Academic Progress for Recipients of Financial Aid Policy

Financial aid recipients at Cedarville University are required to achieve satisfactory academic progress to be eligible to continue to receive federal financial assistance. The purpose of this policy is to define the requirements for satisfactory academic progress as it pertains to recipients of Title IV federal aid programs.

See **cedarville.edu/UG_SAP_Policy** for complete information related to Satisfactory Academic Progress.

Student Rights

- You have the right to know what financial aid programs are available at your school.
- You have the right to know the deadlines for submitting applications for each of the financial aid programs available.
- You have the right to know how financial aid will be distributed, how decisions on that distribution are made, and the basis for these decisions.
- 4. You have the right to know how your financial need was determined. This includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget.
- You have the right to know what resources (such as parental contribution, other financial aid, your assets, etc.) were considered in the calculation of your need.
- 6. You have the right to know how much of your financial need as determined by the institution has been met.
- 7. You have the right to request an explanation of the various programs in your student aid package.
- 8. You have the right to know your school's refund policy.

Student Responsibilities

- You must complete all application forms accurately and submit them on time to the right place.
- You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense that could result in indictment under the U.S. Criminal Code.
- You must return all additional documentation, verification, corrections, and/or new information requested by either Financial Aid or the agency to which you submitted your application.
- 4. You are responsible for reading and understanding all forms that you are asked to sign and for keeping copies of them.
- You must accept responsibility for all agreements that you sign.
- You must perform the work agreed upon in accepting a University employment award.
- You must be aware of and comply with the deadlines for application or reapplication for aid.
- 8. You should be aware of your school's refund procedures.

All schools must provide information to prospective students about the school's programs and performance. You should consider this information carefully before deciding to attend a school.





Board of Trustees	320
» Officers	320
» Term of Office Ending June 2021	320
» Term of Office Ending June 2022	320
» Term of Office Ending June 2023	320
» Emeriti	320
Administration	320
» Cabinet	320
» Chancellor	320
» Other Faculty	321

Other Faculty	321
» Administrative Faculty	321
» Library Faculty	321
Administrative Staff	321
» University Registrar Staff	321
» Office of Student Development Staff	321
Correspondence	321
Doctrinal Statement	322
Statistical Information – Fall Semester 2019	323

Board of Trustees

Cedarville University is governed by an autonomous, self-perpetuating Board of Trustees. Board members are selected for three-year terms. One-third of the Board members are eligible for re-election each year. The executive committee of the Board consists of the Chair, Vice Chair, Secretary, Treasurer, chairs of the standing committees, and the President of the University. The Board meets in January, May, and October.

Officers

William Bernhard (2022), Chair Robert Wynalda, (2021), Vice Chairman David Dykema, (2021), Secretary Kenneth David Bane (2020), Treasurer

Term of Office Ending June 2021

Jason Duesing, Kansas City, Missouri
David Dykema, Rockford, Michigan
Evan English, Tipp City, Ohio
Timothy Knight, Fairlawn, Ohio
Daniel Petek, Medina, Ohio
Jonathan Price, Columbus, Ohio
Brian White, Noblesville, Indiana
Jeffory Willetts, Bellefontaine, Ohio
Robert Wynalda, Comstock Park, Michigan

Term of Office Ending June 2022

William Bernhard, Menomonee Falls, Wisconsin David Carr, Stuttgart, Germany Warren Jenkins, Purcellville, Virginia Deforia Lane, Cleveland Heights, Ohio David Lodwick, Bradenton, Florida Don Lough, Jr., Schroon Lake, New York Dominic McKinley, Greensboro, North Carolina

Term of Office Ending June 2023

Corey Abney, Union, Kentucky Timothy Armstrong, Akron, Ohio Kenneth David Bane, Richmond, Indiana Daniel Green, Lakeland, Florida James Hilton, Orange City, Florida Randy Patten, Noblesville, Indiana Charles Petersen, Brownsburg, Indiana Hayes Wicker, Naples, Florida

Emeriti

William Bolthouse, Avila Beach, California
Francis Bresson, Menomonee Falls, Wisconsin
James Carraher, Laurel, Maryland
Jim DeVries, Ada, Michigan
Joseph Godwin, Gallipolis, Ohio
David Gower, Elgin, Illinois
David Graham, Erlanger, Kentucky
Roy Guenin, Winona Lake, Indiana
E. L. Hawkins, Northfield, Ohio
Ruth Kempton, Lititz, Pennsylvania
Lorne Scharnberg, Des Moines, Iowa
Bill Smith, Allegan, Michigan
Al Stevens, Moorestown, New Jersey

Administration

Cabinet

Thomas White, *President;* Professor of Theology. *Education:* B.A., Anderson University, 1997; M.Div., Southeastern Baptist Theological Seminary, 2001; Ph.D., Southeastern Baptist Theological Seminary, 2005. At Cedarville since 2013.

Zachary Bowden, Executive Assistant to the President; Assistant Professor of Theological Studies. Education: B.A., Texas A&M University-Corpus Christi, 2006; M.Div., Southwestern Baptist Theological Seminary, 2010; Ph.D., Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.

Alan Geist, Athletic Director. Education: B.A., Cedarville University, 1983; M.S.S., United States Sports Academy, 1989; Ph.D., The Ohio State University, 2001. At Cedarville since 2005.

Thomas Mach, Vice President for Academics; Chief Academic Officer, Professor of History. B.A., Cedarville University, 1988; M.A., Cleveland State University, 1989; Ph.D., University of Akron, 1996. At Cedarville since 2000.

Richard J. Melson, Vice President for Advancement; Associate Professor of Business. Education: B.A., Murray State University, 1993; M.C.M., Southern Baptist Theological Seminary, 1995; Ph.D., Dallas Baptist University, 2014. At Cedarville since 2016.

Loren Reno, Senior Advisor, Office of the President; Professor of Management. Education: B.A., Cedarville University, 1970;
 M.S., University of Southern California. At Cedarville since 2012.

Christopher Sohn, Vice President for Business, Chief Financial Officer. Education: B.A., Purdue University, 1989; M.B.A., Indiana University, 1996. At Cedarville since 2012.

Janice Supplee, Vice President for Marketing and Communications; Dean of Graduate Studies; Assistant Professor of Business. Education: B.A., Cedarville University, 1986; M.B.A., Wright State University, 2001; Ph.D., University of Nebraska, 2014. At Cedarville since 1995.

Scott Van Loo, Vice President for Enrollment Management. Education: B.A., Cedarville University, 1998; M.A., Wright State University, 2003; Ph.D., University of Dayton, 2011. At Cedarville since 2016.

Jonathan Wood, Vice President for Student Life and Christian Ministries, Assistant Professor of Theological Studies. Education: B.A., University of Oklahoma, 2003; M.Div., Southwestern Baptist Theological Seminary, 2007; Ph.D., Southwestern Baptist Theological Seminary, 2015. At Cedarville since 2013.

Chancellor

Paul Dixon, Chancellor; Professor of Bible. Education: B.A., Tennessee Temple University, 1961; M.Div., Temple Baptist Theological Seminary, 1964; D.D., Tennessee Temple University, 1978; LL.D., Liberty University, 1984; Ed.D., The University of Cincinnati, 1986. At Cedarville since 1978.



Other Faculty

Administrative Faculty

Zachary Bowden, Executive Assistant to President; Assistant Professor of Theological Studies. Education: B.A.. Texas A&M University-Corpus Christi, 2006; M.Div., Southwestern Baptist Theological Seminary, 2010; Ph.D., Southwestern Baptist Theological Seminary, 2016. At Cedarville since 2013.

Pamela Diehl Johnson, Dean of Undergraduate Studies; Senior Professor of Kinesiology. Education: B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

Randall L. McKinion, Assistant Vice President for Academics, Associate Professor of Old Testament. Education: B.S., University of South Alabama, 1998; M.Div., The Master's Seminary, 2001; Ph.D., Southeastern Baptist Theological Seminary, 2006. At Cedarville since 2014.

Library Faculty

Joshua Michael, Dean of Library Services; Assistant Professor of Library Science. Education: B.A., Cedarville University, 1999; M.Div., Northwest Baptist Seminary, 2004; M.L.I.S., University of Pittsburgh, 2007. At Cedarville since 2013.

Lynn Brock, *University Archivist (PT)*; Professor Emeritus of Library Science. *Education:* B.A., Cedarville University, 1968; M.L.S., Indiana University, 1969. At Cedarville since 1969.

Nathanael Davis, STEM/Business Librarian; Assistant Professor of Library Science. Education: B.A., Cedarville University, 2007; M.E.S., Taylor University, 2009. At Cedarville since 2019.

Julie Deardorff, Director of Library Collection Services; Associate Professor of Library Science. Education: B.A., Gettysburg College, 1990; M.L.I.S, The University of Rhode Island, 1993. At Cedarville since 1996.

Jeffery Gates, Information Services Librarian; Assistant Professor of Library Science. Education: B.S., Baptist Bible College, 1981; M.L.S., Kent State University, 1995; M.A., Faith Baptist Theological Seminary, 2002. At Cedarville since 2007.

Sharon Kerestes, Curriculum Materials Center Librarian; Assistant Professor of Library Science. Education: B.A., University of Pittsburgh, 1991; M.Ed., Wright State University, 2004. At Cedarville since 2012.

Gregory Martin, *Digital Commons Director*; Associate Professor of Library Science. *Education:* B.M., Wright State University, 1972; M.M., Wright State University, 1979; M.L.I.S., Kent State University, 2005. At Cedarville since 2002.

Kari Siders, Director of Library Public Services; Assistant Professor of Library Science. Education: B.A., Wilmington College, 2009; M.L.I.S., Kent State University, 2015. At Cedarville since 2018.

Kirsten Stezkorn, *Humanities Librarian;* Instructor of Library Science. B.A., Cedarville University, 2013; M.L.I.S., Kent State University, 2016. At Cedarville since 2017.

Administrative Staff

University Registrar Staff

Fran Campbell, University Registrar. Education: B.A., Cedarville University, 1972; At Cedarville since 1981.

Office of Student Development Staff

Mindy May, Director of Student Development. Education: B.A., East Texas Baptist University, 2004; MAMFC, Southwestern Baptist Theological Seminary, 2008; MACE, Southwestern Baptist Theological Seminary, 2008; Ph.D. (candidate), Southwestern Baptist Theological Seminary. At Cedarville since 2014.

Brad Smith, Associate Dean of Students. Education: B.S., Liberty University, 1984; M.A., Liberty University, 1990. At Cedarville since 2000.

Correspondence

A complete listing of departments along with contact information can be obtained online at **cedarville.edu/departments**.

Cedarville University 251 N. Main St. Cedarville, OH 45314 admissions@cedarville.edu 1-800-CEDARVILLE (233-2784)

Doctrinal Statement

All trustees, administrators, full-time faculty, and staff support and adhere to the doctrinal statement and lifestyle commitment of Cedarville University.

We believe that God has revealed Himself truthfully to humans through the inspired texts of the Scriptures. These canonical texts, Old and New Testaments, are inerrant, infallible, and reliable in detail and in theological content. The Bible, as the sufficient Word of God, has authority over the Church and the Christian's life and thought. As divinely inspired texts, the meaning of the biblical authors is to be discerned through careful, textual interpretation guided by the Spirit. 1 Corinthians 2:10–14; 2 Timothy 3:16,17; 2 Peter 1:19–21.

We believe in one God-eternal, all-powerful, all-knowing, and always present, existing as three Persons — Father, Son, and Spirit, one in nature, attributes, power, and glory. God will be glorified by all creation and is worthy of worship from all humans. Genesis 1:1,26; Psalm 104, 148; Proverbs 30:4; Matthew 28:19; Mark 12:29; John 1:1–4, 14, 18; Acts 5:3,4; 2 Corinthians 13:14; 1 Timothy 2:3–4.

We believe that the Son, eternally begotten by the Father, through the Spirit was also born of the virgin, Mary. Therefore, Jesus, the Son, is both fully God and fully human. As the Word made flesh, the Son is the perfect mediator between God and humanity. Proverbs 8:22–31; Isaiah 7:14; Matthew 1:18–25; Luke 1:26–35; John 1:14–18, 5:16–29; Philippians 2:6–11; 1 Timothy 2:5–6; Hebrews 1:1–14.

We believe that the Scriptures provide a literal and historical account of God's creation of all things. The climax of the six days of creation was the special, immediate, and personal creation of human life. The first humans, Adam and Eve, were directly created, not evolved from previous life forms. God created humans, male and female, in His image. Human life, sexual identity and roles are aspects of God's creative design. From creation, marriage is a covenant between a man and a woman that should be marked by sexual purity, by sacrificial male leadership, and by recognizing the divine blessing of children, including preborn children. Adam and Eve, though created in perfection, sinned, warranting physical death, spiritual death, and eternal separation from God. Consequently, all human beings are born with a sinful nature, and are sinners in thought, word, and deed. Genesis 1:1-27; 2:7-25; 3:1-24; Psalm 127:3-5; Romans 1:18-32; 3:10-19; 5:12-19; Ephesians 5:22-33; Colossians 3:18-19.

We believe that the Lord Jesus Christ died for our sins according to the Scriptures as the representative and substitutionary sacrifice and rose again for our justification. Only those who repent and believe in Him are justified on the grounds of His shed blood and are saved by grace through faith wholly apart from human merit and works. Genuine believers, the elect, are the adopted children of God and are eternally secure through the work of God. John 1:12,13; 3:3–16; 5:24; 10:28,29; Acts 13:39; 16:31; Romans 3:21–28; Ephesians 1:3–14; 2:8–10; Philippians 1:6; Titus 3:3–8; 1 Peter 1:23; 2 Peter 1:4–11.

We believe that the Holy Spirit is a divine Person, equal in nature with God the Father and God the Son. The Spirit had an active role in Creation and in the inspiration of the Scriptures. He convicts sinners, guides humans into truth, and regenerates believers to new life, baptizes them in Christ and serves as their assurance to eternal life. Believers mature in their faith through the work of the Spirit, who produces His fruit in them. The gifts of the Spirit are for ministry to the body of Christ and the "sign gifts" are not intended to be a pattern for today. Psalm 139:7–12; John 14:16,17; 16:13,14; Romans 8:9; 1 Corinthians 6:19; 12:8–10, 28–30; 14:1–40; Galatians 5:22–23; Hebrews 2:3–4.

We believe that the local church is a gathered congregation of believers, associated by covenant, practicing self-governance, and observing the ordinances of believer's baptism by immersion and the Lord's Supper. The church is to be committed to the authority of the Word of God in matters of doctrine and practice. God calls certain men to be pastors, providing spiritual leadership for the church. Deacons, likewise, minister to the church body through specific acts of service. We believe that the universal Church consists of all who have saving faith in Christ. As the body of Christ, the Church is to fulfill His mission of making disciples throughout the world. Matthew 18:15–17; 28:18–20; 1 Corinthians 1:2; 12:12–28; 7:17; 11:16; Ephesians 1:22–23; 2:14,15; 4:11–16; 5:23–32; 1 Timothy 2:12; 3:1–15.

We believe that every believer should walk by the Spirit and engage in practices that stimulate spiritual maturity. Christians grow as they worship and serve the Lord, study the Scriptures, pray, and live in fellowship with other believers. Christians are also to flee evil influences and practices, which hinder a Spirit-filled life. Due to the commission of Christ and the urgency of the Gospel, all believers are to engage in Gospel conversations, to live God-honoring lives, and to work continuously to spread the Gospel to their neighbors and the nations. Matthew 5:16; 28:19–20; Mark 16:15; John 17:18; 20:21; Acts 1:8; Romans 6:1–14; 12:1; 2 Corinthians 5:20; 6:14–7:1; Galatians 5:16–25; Colossians 3:1–17; James 4:4; 1 John 2:15–17.

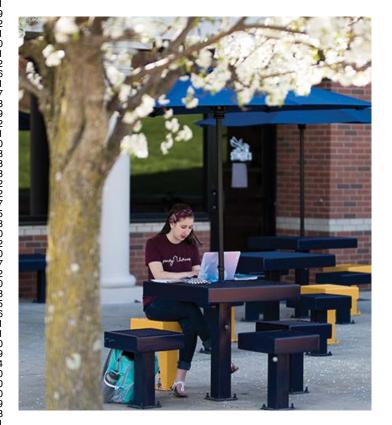
We believe in the literal, bodily resurrection of the crucified Lord, His ascension into heaven, His present life there as our high priest and advocate, and His rapture of the church before the Tribulation. He will return bodily and visibly to the earth at the end of the Tribulation to establish His millennial kingdom, and to reign as the supreme Lord over all nations. Luke 24:36–43; John 14:1–6; 20:24–29; Acts 1:9–11; 1 Corinthians 15:12–58; 1 Thessalonians 4:13–18; 5:1–11; Revelation 1:4–7; 19:11–16; 20:6.

We believe in the bodily resurrection and judgment of all the dead. Those people who are in Christ will be saved to a life of eternal glory with God. Unbelievers will suffer judgment and eternal punishment in the lake of fire. Matthew 10:28; 18:8,9; 25:41,46; Mark 9:43–49; John 5:28,29; 2 Thessalonians 1:6–9; Revelation 20:6,11–15; 21:1–8.

Statistical Information - Fall Semester 2019

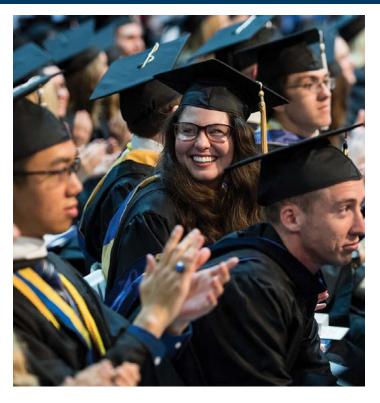
Enrollment By Class	Men	Women	Totals
Freshmen	473	527	1,000
Sophomores Juniors	400 343	439 414	839 757
Seniors	386	481	867
Post-baccalaureate	1	2	3
Non-Degree: (ND/GR/HS) Total Enrollment	186 1,789	231 2.094	417
iolai Eniolinent	1,709	2,094	3,883
Enrollment By Major (double majors are include			
Majors Accounting	Men 63	Women 31	Totals 94
Allied Health	26	50	76
Athletic Training	15	15	30
Bible Certificate	1	0	1
Biblical Studies Biblical Studies/Accelerated M.Div.	43 56	6 7	49 63
Biology - BA	4	14	18
Biology - BA - 3 Yr Program	1	0	1
Biology - BS Broadcasting, Digital Media, & Journalism	37 52	27 27	64 79
Chemistry - BA	5	6	11
Chemistry - BS	6	5	11
Chemistry Education Christian Education	1 8	0 22	1 30
Civil Engineering	38	5	43
Commmunication	19	47	66
Communication - 3 Yr Program Computer Engineering	56	5 3	5 59
Computer Science	99	9	108
Criminal Justice	28	12	40
Early Childhood Education	6 6	164	170
Economics - BA Economics - BS	14	1 1	7 15
Electrical Engineering	40	15	55
English	8	32	40
English - 3 Yr Program Environmental Science	12	1 10	1 22
Exercise Science - BS	16	22	38
Finance	65	13	78
Finance-3 Yr Program Forensic Science	3 6	17	3 23
Geology	11	7	18
Geosciences	1	0	1
Global Business History	9 21	10 11	19 32
History - 3 Yr Program	1	0	1
History/Political Science	0	0	0
Individual Studies Industrial & Innovative Design	1 65	0 37	1 102
Information Systems/Info Tech Mgmt	42	4	46
Intercultural Studies - Missiology	4	.7	11
International Studies Journalism	8 2	19 1	27 3
Language Arts Education-Integrated	1	18	19
Liberal Arts	1	1	2
Life Science Education	0 15	1 35	1 50
Linguistics Management	54	34	88
Management-3 Yr Program	3	5	8
Marketing Marketing-3 Yr Program	62 2	26	88 2
Mathematics - BA	6	6	12
Mathematics - BS	13	4	17
Mathematics Education-Integrated	3 210	12 28	15 238
Mechanical Engineering Middle Childhood Education	9	41	50 50
Molecular Biology	28	44	72
Multi-Age Health and Physical Education	5	5 7	10
Music Music - 3 Yr Program	10 1	1	17 2
Music - Keyboard Pedagogy	0	10	10
Music Composition	3	5 17	8 25
Music Education-Multi-Age Music Performance	8 7	17 9	25 16
Nursing	56	405	461
Nursing - 3 Yr Program	5	26	31
Pharmaceutical Sciences Pharmaceutical Sciences-3 Yr Program	15 12	45 7	60 19
Physical Education-Multi-Age	1	3	4
Physical Science Education	0	0	0
Physics Education Physics-BA	0	0 0	0
Physics-BS	7	2	9
Political Science	27	16	43
Pre-Engineering Prelaw	19 6	2 2	21 8
Pre-Nursing	3	41	44

B (' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	_		07
Professional Writing & Inforation Design	5 25	32	37
Psychology Psychology - 3 Yr Program	25 0	90 8	115 8
Public Administration	1	0	1
Science Comprehensive Education-Integ		3	4
Social Studies Education-Integrated	13	4	17
Social Work	5	63	68
Social Work - 3 Yr Program		6	6
Spanish	8	10	18
Spanish Education-Multi-Age	1	9	10
Special Education-Intervention Specialist	2 22	45 1	47 23
Sport Business Management Sport Medicine	5	5	23 10
Studio Art	3	10	13
Theatre	4	16	20
Undeclared/Degree Seeking	22	27	49
Undeclared/Non-Degree	185	230	415
Visual Communication Design	20	53	73
Worship	26	21	47
Worship - 3 Yr Program	1	2	3
Youth Ministries	12 4	14 0	26 4
Youth Ministries-3 Yr Program	4	U	4
Student Resident Status	Men	Women	Totals
Campus housing	1,246	1,480	2,726
Commuters	287	258	545
Faculty/Enrollment Comparison (full-time	equivalents)	
	Student	Faculty	Ratio
2006-07	3,064	211	15:1
2007–08	3,006	228	13:1
2008-09	2,996	202	15:1
2009–10 2010–11	2,841 2,938	195 202	15:1 15:1
2011–12	3,014	215	14:1
2012–13	3,053	225	14:1
2013–14	3,075	240	13:1
2014–15	3,082	251	12:1
2015–16	3,076	245	13:1
2016–17	3,083	241	13:1
2017–18	3,185	226 229	14:1
2018–19 2019–20	3,759 3,883	229 234	16:1 16:1
2013-20	5,005	234	10.1



Appendix Statistical Information – Fall Semester 2019

Enrollment By State Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming District of Columbia Guam Puerto Rico Foreign Residence Total Enrollment	Men 1 7 1 15 28 17 6 22 12 1 76 122 19 33 2 5 88 18 135 18 0 13 0 2 2 29 39 1 72 4 1 734 0 7 122 2 6 7 9 15 2 0 29 13 34 2 0 0 0 42 1 789	Women 1 7 3 16 24 13 4 40 11 2 0 92 151 11 14 39 4 22 39 18 155 28 1 13 0 863 2 72 25 0 863 2 14 150 3 7 3 19 20 5 4 40 19 18 32 1 0 0 0 26 2 094	Totals 2 14 4 4 31 52 30 10 62 23 3 0 168 273 23 72 6 27 67 366 290 46 1 26 0 10 3 144 49 1 1,597 2 21 272 5 13 10 28 35 7 4 69 32 31 66 3 0 0 0 8 3 883 3 5 7 4 5 6 9 32 31 66 3 0 0 0 6 8 3 883 3 5 7 4 5 6 9 32 31 6 6 3 0 0 0 6 8 3 883 3 5 7 4 5 6 9 32 31 6 6 3 0 0 0 6 8 3 883 3 5 7 4 5 6 9 32 31 6 6 3 0 0 0 0 6 6 3 8 8 3 5 7 7 4 5 6 9 32 3 1 6 6 3 0 0 0 0 6 6 3 8 8 3 5 7 7 4 5 6 9 32 3 1 6 6 6 3 0 0 0 0 6 6 3 8 8 3 5 7 7 4 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7
Total Enrollment:	1,789	2,094	3,883
Enrollment By Age Years Under 18 18 19 20 21 22 23-24 25-29 30-34 35-39 40-49 50+ Total Enrollment:	Men 174 382 400 359 298 100 35 26 2 2 5 6 1,789	Women 246 494 456 424 331 89 32 8 3 1 3 7 2,094	Totals 420 876 856 783 629 189 67 34 5 3 8 13 3,883







Index Academic Honors32 Art and Design Requirements47 Arts Administration Minor......54 Academic Organizations 9 Athletic and Recreation Center......3 Academic Progress Chart......30 Academic Progress, Warning, and Suspension......30 Au Sable Institute of Environmental Studies......22 Academic Schools and Departments34 Access 5 Benefits......5 Accounting Major......73 Accounting Minor......90 Accreditation......72 Accreditation......112 Biblical Languages Concentration 60 Biblical Literature Concentration......60 Accreditation and Licensure174 Biblical Studies — Accelerated B.A./Master of Divinity 63 Accreditation, Authorization, and Licensure......2 Actuarial Science Minor......214 Addictions and Chemical Dependency Minor...... 191 Biology — Bachelor of Science 197 Additional Academic Awards......32 Broadcasting and Digital Media Minor......101 Broadcasting, Digital Media, and Journalism......95 Calendar and Credits...... 17 Admission and Retention......38 Callan Athletic Center 3 Campus Recreation9 Admission Criteria for Transferring from Another Nursing Program174 Cedarville Summer Abroad Programs 125 Cedarville University Emergency Medical Services176 Admissions 12 Centennial Library4 Center for Biblical and Theological Studies4 Advisory Council.......75 Air Force Scholarships.......317 Chemistry Laboratory Center4 Chick-fil-A 4 Child and Family Studies Minor...... 191 Alpha Iota Alpha (AIA) Men in Nursing176 Alpha Sigma 58 Alpha Sigma Lambda (ASL) 125 Christian Education64 Christian Ministry Minor......69 Church Relations7 Civil Engineering Center......4

Classification of Students	17	Department of Psychology	
Clinical Activity Information	178	Course Descriptions	294
Clinical Faculty	36	Department of Science and Mathematics	192
Clinical Requirements	39	Department of Science and Mathematics	
Clinical Requirements		Course Descriptions	296
College Level Examination Program (CLEP)		Department of Social Work	217
College Now Program		Department of Social Work	
College Republicans		Course Descriptions	
Combined B.S./M.A.T. Program		Department Scholarships	
Communicate Effectively		Develop Academically and Professionally	
Communication		Digital Video Minor	
Community Covenant		Disaster Preparedness	
Competitive Scholarships		Discipleship Ministries	
Composition		Distance Education	
Comprehensive Communication Arts Minor		Dixon Ministry Center	
Comprehensive Counseling Minor		Doctrinal Statement	
Computer Engineering		Donor-Funded Scholarships	
Computer Network		Early Commencement	
Computer Science — Bachelor of Science		Earth Science Minor	
Computer Science Minor		Economics — Bachelor of Arts	
Continuing at the University		Economics — Bachelor of Science	
Continuing Education		Economics Minor	
Continuing Student Reservation Deposit Refund		Editing and Publishing Minor	
Cooperative Education Program		Editing and Publishing Minor	134
Core Values		Educational Philosophy for Engineering and Computer Science	440
Correspondence		Programs Electives	
Counseling Services Course Descriptions			
Course Descriptions Course Load		Electrical Engineering	
Course Numbers and Designations		Electronic Media Advisory Board EMS Education and Special Credit	
Course Registration		Enactus	
Courses		Engage for Christ	
Creative Writing Minor		Engineering and Computer Science Advisory Council	
Credit by Examination		Engineering and Science Center	
Credit by Examination		Engineering Educational Objectives	
Criminal Justice		Engineering Ladcational Objectives	
Criminal Justice Minor		Engineering Projects Laboratory	
Cross-Cultural Nursing Minor		English	
Cross-Cultural Psychology Minor		Ensemble Participation	
CU Study Abroad Opportunities		Ensembles	
Cyber Operations — Bachelor of Science		Entrepreneurship Minor	
Deans and Chairs		Environmental Biology Emphasis	
Dean's Honor List		Environmental Science	
Dean's List		Epsilon Alpha Pi	
Debate		Epsilon Omega	
Deferred Payment Plan for Veterans	315	Epsilon Pi Lambda	
Delta Mu Delta	73	Exercise Science — Bachelor of Science	
Demographic Profile	103	Facilities	
Departmental Organizations	11	Facilities	178
Department Objectives	138	Family Educational Rights and Privacy Act	32
Department Objectives	218	Federal Direct Stafford Loans	
Department of Art, Design, and Theatre	45	Federal Grants	316
Department of Art, Design, and Theatre		Federal Parent PLUS Loans	317
Course Descriptions	227	Federal Pell Grant	316
Department of Communication	92	Federal Subsidized and Unsubsidized Stafford Loans	317
Department of Communication		Federal Supplemental Educational Opportunity Grant (SEOG)	316
Course Descriptions	249	Federal Work Study	317
Department of English, Literature, and Modern Languages	123	Fees	47
Department of English, Literature, and Modern		Fees	157
Languages Course Descriptions	272	Finance — Bachelor of Science	79
Department of History and Government	137	Finance Major	73
Department of History and Government		Financial Aid	176
Course Descriptions		Financial Aid	
Department of Music and Worship	155	Financial Aid	
Department of Music and Worship		Financial Information	
Course Descriptions		Financial Information	
Department of Psychology	186	Financial Management Association	73

Financial Registration Policy		Healthcare and Medical Services	
First-Year Review		Health Psychology and Public Health Minor	19
Foreign Language	124	Health Requirements	
Forensic Science		Health Sciences Center	
Forensic Science		HeartSong Ministries	
Founders Hall		High School Graduation Date Policy	
French Club	_	High School Preparation	
French Minor		Historical Theology Concentration	60
Freshman Review	46	History	2
Freshman Review		History	142
Gathany Media Center/Center for Teaching and Learning		History and Government Center	5
General Education Course Sequence	26	History Minor	
General Education Requirements		Homeschooled Students Transcript Policy	
General Education Requirements for Education Majors	105	Honors Program	151
General Information	315	Housing	6
General Use	14	Human Resource Management	
Geology — Bachelor of Science		Independent Study	
Geology Minor	214	Index	325
German Club	125	Individualized Studies	152
German Minor	134	Industrial and Innovative Design	49
Getting Started Weekend	7	Industrial and Innovative Design, Studio Art, and Visual Communication	tion
Global Business	81	Design Requirements	46
Global Business Major	73	Information Technology Management — Bachelor of Science	83
Global Outreach — Domestic		Information Technology Management Major	73
Global Outreach — International	7	Information Technology Management Minor	9
Global Outreach — Local	7	Institutional Grants and Scholarships	315
Goals	219	Institutional Test-Out	23
Grade Appeal Process	30	Integrated Business Core (IBC)	75
Grade Point Average Calculation	14	Interactive Web Design Minor	54
Grade Points and Point Averages	30	Intercollegiate Athletics	8
Grading System	29	Intercultural Communication Minor	10
Graduate Program Pathway Option for Biology — Bachelor of Arts	196	Intercultural Studies — Missiology	66
Graduate Program Pathway Option for Biology — Bachelor of Science	e. 197	Interdisciplinary Studies	150
Graduate Program Pathway Option for Broadcasting, Digital Media, a	nd	Interdisciplinary Studies	
Journalism	96	Course Descriptions	285
Graduate Program Pathway Option for Chemestry — Bachelor of Arts	3 . 198	Interest Rates	312
Graduate Program Pathway Option for Chemistry — Bachelor of		International Admission Policies (non-U.S. citizens)	15
Science	199	International Baccalaureate	23
Graduate Program Pathway Option for Communication	99	International Business for the Non-business Major Minor	90
Graduate Program Pathway Option for Environmental Science	200	International Business Minor	90
Graduate Program Pathway Option for Exercise Science — Bachelor	of	International Field Experience	220
Science	41	International-Intercultural Student Teaching Programs (IIP)	22
Graduate Program Pathway Option for Forensic Science	201	International Studies	144
Graduate Program Pathway Option for Geology — Bachelor of Science	ce203	International Studies Minor	148
Graduate Program Pathway Option for History	143	Internships	29
Graduate Program Pathway Option for Linguistics	131	Introduction	
Graduate Program Pathway Option for Mathematics — Bachelor of		Invoices and Statements Online	312
Arts	204	Keyboard Pedagogy	161
Graduate Program Pathway Option for Mathematics — Bachelor of		Lambda Pi Eta	
Science	205	Language Arts Education — Integrated	128
Graduate Program Pathway Option for Melecular Biology	206	Latin American Studies Minor	
Graduate Program Pathway Option for Music	164	Leadership Opportunities	9
Graduate Program Pathway Option for Physics — Bachelor of Scienc	e 207	Liberal Arts	154
Graduate Program Pathway Option for Political Science	145	Library Faculty	32
Graduate Program Pathway Option for Professional Writing and Inform	nation	Licensure – Public Schools	103
Design	100	Life Science Education	209
Graduate Program Pathway Option for Psychology	190	Linguistics	130
Graduate Program Pathway Option for Teacher Education Licensure		Linguistics Club	125
Program Language Arts Education — Integrated	128	Linguistics Minor	
Graduate Program Pathway Option for Worship		Literature Minor	
Graduation		Major Fields of Undergraduate Study	
Graduation		Majors	
Graduation Requirements		Making Payment	
Graduation with Honors		Management — Bachelor of Science	
Graphic Design Minor		Management Major	
Greek Minor		Marketing	
Hartman Hall		Marketing Major	
		······································	

Marketing Minor		Physics — Bachelor of Science	
Mathematics — Bachelor of Arts		Physics Education	
Mathematics — Bachelor of Science		Physics Minor	
Mathematics Education — Integrated		Piano Proficiency	
Mathematics Minor		Policy	
Mechanical Engineering		Political Science	_
Methods of Teaching Block (all AYA majors and MA Spanish)		Political Science Minor	149
Middle Childhood Education		Portfolio	
Middle Childhood Education (MC)		Portrait Staments	
Middle Eastern Studies Minor		Preagriculture Curriculum	
Military Science Course Descriptions		Predental, Premedical, Preoptometric	
Milner Business Administration Building	5	Preferred Admission Continuation Requirements	182
Ministry Opportunities	7	Prelaw	146
Minor	180	Preparation	36
Minor Fields of Undergraduate Study	20	Prephysician Assistant	215
Miracle	125	Preprofessional Programs	21
Mission	183	Preseminary Minor	70
Mission Minor	69	Preveterinary	216
Missions Concentration	61	Primary (P-5) Education	107
Mission Statement	2	Primary (P-5) Education (P-5)	105
Model United Nations Team	138	Private Lessons	157
Molecular Biology	206	Private Lessons	157
Motion Graphics Minor	101	Probation	176
Multi-Age Health and Physical Education	44	Professional Writing and Information Design	100
Music	162	Professional Writing and Information Design Industry Advisory Board.	100
Music Groups	8	Profile	2
Music Minor	172	Program Requirements	38
Music Requirements	156	Progression	175
Music Student Handbook		Progression Requirements	
Music Student Objectives	156	Psychological Research Minor	
Music Technology Minor		Psychology	
Music Theory Placement Exam		Psychology Minor	
National Security Minor		Public Administration Minor	
Neuropsychology Minor		Public Policy Minor	
New Student Orientation		Public Relations Minor	
New Student Reservation Deposit Refund		Purpose Statement	
New Students		Recital and Program Attendance	
Nonacademic Requirements		Regional Accreditation	
Notification of the University Bill		Registration as a Professional Engineer	
Nursing Course Requirements		Registration for Courses	
Nursing Honor Society (NHS)		Removal From Nursing Major	
Objectives		Renaissance Guild	
Off-Campus Employment		Repeating Courses	
Office of Student Development Staff		Requirements for a Second Degree	
Officers		Requirements for Music and Worship Admission	
Ohio College Opportunity Grant		Reservation Deposit	
Ohio National Guard Tuition Assistance Program		Reserve Officer Training Corps (ROTC)	
Ohio War Orphans Scholarship		Resound Radio	
Omega Mu		Return of Title IV Funds, Policy and Regulations	
One-Year Bible Program		Scholarships	
One-Year Bible Program		Scholarships	
One-real Bible Program Organizational Communication Minor		School Distinctives	
Organizations		School of Allied Health	
Other Faculty		School of Allied Health Course Descriptions	
Other Need-Based Scholarships Other Programs		School of Biblical and Theological Studies	
9		School of Biblical and Theological Studies Course Descriptions	
Other State Grants		School of Business Administration	
Out-of-Class Courses		School of Business Administration Course Descriptions	
Pastoral Ministry Minor		School of Education.	
Patterson Hall		School of Education Course Descriptions	
Payment Penalties		School of Engineering and Computer Science	
Performance		School of Engineering and Computer Science Course Descriptions	
Petitions and Student Complaints		School of Nursing	
Philosophy and Theology Minor		School of Nursing Committee Service	
Philosophy Concentration		School of Nursing Course Descriptions	
Physical Education — Multi-Age		School of Pharmacy	
Physical Science Education	211	School of Pharmacy	183

School of Pharmacy Course Descriptions	
School Requirements5	
School Requirements	72
School Requirements11	
Science Comprehensive Education — Integrated	
Second-Year Review15	
Selecting a Major1	19
Selecting a Ministry	
Semester Performance Juries	57
Services	
Setting	. 3
Sigma Tau Delta	
Social/Service Organizations1	
Social Studies Education — Integrated	
Social Work	
Social Work	
Social Work Advisory Council	
Society for Professional Writing9	
Sociology Minor	
Sophomore Review4	
Sophomore Review	
Spanish13	
Spanish Club	
Spanish Education — Multi-Age13	
Spanish for Healthcare Personnel Minor	
Spanish for Professionals Minor	
Spanish Minor	35
Special Academic Programs2	
Special Education — Intervention Specialist	
Special Education — Intervention Specialist (SpE)	
On a sight Education (Drivers on (D.E.) Education Devall in a second Outline)9
Special Education/Primary (P-5) Education Dual Licensure Option 10	
Speech TeamSpeech Team	93
Speech TeamSpiritual Emphasis	8
Speech Team	. 8 39
Speech TeamSpiritual Emphasis	. 8 39
Speech Team	. 8 39 74 91
Speech Team	. 8 39 74 91 42
Speech Team	. 8 39 74 91 42
Speech Team	. 8 39 74 91 42 14
Speech Team	. 8 39 74 91 42 14
Speech Team	. 8 39 74 91 42 14 18
Speech Team	. 8 39 74 91 42 14 18 16
Speech Team	. 8 39 74 91 42 14 18 16
Speech Team	. 8 39 74 91 42 14 18 16 16 23
Speech Team	. 8 339 74 91 142 14 18 16 16 16 23 . 5
Speech Team	. 8 339 74 91 42 14 18 16 16 23 . 5
Speech Team	. 8 339 74 91 42 14 18 16 16 23 . 5 11
Speech Team	. 8 339 74 91 42 14 18 16 16 23 . 5 11 17 . 8
Speech Team	. 8 339 74 91 42 14 18 16 16 23 . 5 11 17 . 8
Speech Team	. 8 . 39 . 74 . 91 . 42 . 14 . 18 . 16 . 11 . 17 8 9 . 76 . 18
Speech Team	. 8 . 39 . 74 . 91 . 42 . 14 . 18 . 16 . 11 . 17 8 9 . 76 . 18
Speech Team	.8 39 74 91 142 14 18 16 16 23 .5 11 17 .8 .9 76 18
Speech Team	. 8 39 74 91 142 14 18 16 16 23 . 5 11 17 . 8 . 9 76 18 18 50
Speech Team	.8 39 74 91 142 14 18 16 16 16 23 5 11 17 .8 .9 76 18 18 50 50 54 52 55
Speech Team	.8 39 74 91 142 14 18 16 16 16 23 5 11 17 .8 .9 76 18 18 50 50 54 52 55
Speech Team	.8 39 74 91 142 14 18 16 16 16 23 5 11 17 .8 .9 76 18 18 50 40 42 51 11 11 11 11 11 11 11 11 11 11 11 11
Speech Team	.8 39 74 91 142 14 18 16 16 16 23 5 11 17 .8 .9 76 18 18 50 40 42 51 11 11 11 11 11 11 11 11 11 11 11 11
Speech Team	.8 39 74 91 42 14 18 16 16 16 23 .5 11 17 .8 9 76 18 18 50 54 25 11 11 21 11 11 11 11 11 11 11 11 11 11
Speech Team	.8 39 74 91 42 14 18 16 16 16 23 5 11 17 8 9 76 18 18 5 10 5 11 12 11 11 11 11 11 11 11 11 11 11 11
Speech Team	.8 39 74 91 42 14 18 16 16 16 23 5 11 17 8 9 76 18 18 5 10 5 11 12 11 11 11 11 11 11 11 11 11 11 11
Speech Team	. 8 . 39 . 74 . 91 . 42 . 14 . 18 . 16 . 16 . 17 . 8 . 9 . 76 . 18 . 18 . 19 . 10 . 10 . 10 . 10 . 10 . 10 . 10 . 10
Speech Team	. 8 339 74 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31
Speech Team	.8 339 74 91 142 14 18 16 16 16 23 .5 11 17 .8 .9 76 18 18 50 54 25 11 12 11 16 16 55 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Speech Team	.8 339 74 91 142 14 18 16 16 16 23 .5 11 17 .8 .9 76 18 18 50 54 25 11 12 11 16 16 55 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Speech Team	. 8 339 74 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31
Speech Team	. 8 39 74 91 142 14 18 16 16 16 23 . 5 11 17 . 8 . 9 76 18 18 16 10 55 11 12 11 16 16 16 16 16 16 16 16 16 16 16 16

Feaching Ministry Concentration	
Fechnical Standards Requirements	176
FESOL Endorsement	
Test Pass Rates	
Theatre	
Theatre Cocurricular Opportunities	48
Theatre Design Minor	
Theatre Minor	
Theatre Performance Minor	
Theatre Program	
Theatre Requirements	
The Cedarville Review	
The Centennial Library	
The Cove — Academic Enrichment Center	
Theology Concentration	
Theta Alpha Kappa	
Think Broadly and Deeply	
Fransfer Review	
Fransfer Student Aid	
Fransient Study	
Tuition Refund Schedule	
[utoring	
Tyler Digital Communication Center	
Jndergraduate Admission Criteria	
Jndergraduate Admission Policies	
Jndergraduate Admission Process and Deadlines	
Jndergraduate Degree Requirements	
Jndergraduates in Graduate Courses	
Jndergraduate Study	
Jndergraduate Transfer Policies	
Jnited States Military Scholarships	31/
Jniversity Financial Operation Policy	
Jniversity Registrar Staff	
/alues/ehicles	
/eterans Training Benefits and Dependents Educational Assistance	
/ision Statement	
/isual Communication Design	
Nestern European Studies Minor	
Western European Studies Millor	
Withdrawal for Military Reasons	
Withdrawal Refunds	
Withdrawing From the University	32
Nomen in Business	
Nomen's Ministry Concentration	
Nomen's Ministry Minor	
Vorship	
Vorship Concentration	
Vorship Forum	
Vorship Minor	
Norship Requirements	
Vorship Student Handbook	
Writing Center	
Writing for the Professions Minor	
outh and Family Ministry Concentration	
outh Ministries	
/outh Ministry Minor	
	, C

ACADEMIC CALENDAR

Fall Semester 2020

August 2020

10

3–5 New Faculty Orientation 4-5 Academic Leadership Group Meetings Faculty/ Staff Sessions and Service Awards Program

Academic Division Meeting 11 - 13Department/School Retreats

Getting Started Weekend (meal contract starts 14-16

at 5 p.m. on Friday) 17-20 Fall Bible Conference 17 Instruction begins at 8 a.m.

September 2020

30-10/1 Trustee Meetings

October 2020

12-13 Advising/Early Registration for Spring: Priority Registration 14-15 Advising/Early Registration for Spring: Seniors 19-20 Advising/Early Registration for Spring: Juniors 21-23 Advising/Early Registration for Spring: Sophomores

November 2020

Advising/Early Registration for Spring: 3–5

Freshmen

2-16 Student Evaluation of Faculty for Fall Semester

19, 23-24 Final Exams*

25 Winter Break Begins (residence halls open;

dining hall closed)

December 2020

Grades Due at 3 p.m. 16

Spring Semester 2021

January 2021

5

New Student Orientation and Preparation

(meal contract starts at 5 p.m.) Instruction Begins at 8 a.m.

5-7 GO Conference

18 Martin Luther King Jr. Day (no classes)

21-22 Trustee Meetings

February 2021

27 - 3/7Spring Break (residence halls open; dining hall

closed)

March 2021

Instruction Resumes at 8 a.m.
Advising/Early Registration for Fall: Priority
Registration
Advising/Early Registration for Fall: Seniors
Advising/Early Registration for Fall: Juniors
Advising/Early Registration for Fall:
Sophomores
Advising/Early Registration for Fall: Freshmen

April 2021

2–4	Easter Break (no classes)
5	Instruction Resumes at 8 a.m.
12–26	Student Evaluation of Faculty for Spring Semester
27-30	Final Exams*
29–30	Trustee Meetings

May 2021

125th Annual Commencement 1 (residence halls close at 5 p.m. for undergraduates, 8 p.m. for walking seniors) 5 Grades due at 3 p.m.

*Final exam schedules are published at the beginning of each semester. Please be sure that your travel arrangements do not conflict with your final exams.

Note - all dates are subject to change due.

Summer Sessions 2021

May 3-May 21, 2021 May Session: June Session: June 14-June 25, 2021

Summer Online Courses: May 25-August 13, 2021 (online only) Summer Non-Traditional: May 3-August 13, 2021 (online only)

8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

EVERY DAY MATTERS

PSALM 90:12

for the WORD OF GOD and the TESTIMONY of JESUS CHRIST



251 N. MAIN ST. CEDARVILLE, OH 45314

CEDARVILLE.EDU

1-800-CEDARVILLE



s	М	т	W	Т	F	S
1	2	3	4	5	6	7