

Fall 2006

## 2006-2007 Academic Catalog

Cedarville University

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# 2006-07 Academic Calendar

## Fall Semester 2006

### August

- 18 Residence Halls Open
- 18-20 Getting Started Weekend (*meal contract starts at 5 p.m. on Saturday*)
- 21-24 Fall Bible Conference
- 23 Instruction Begins (*Convocation*)

### September

- 4 Labor Day (*no classes*)
- 20 Day of Prayer (*classes begin at 1 p.m.*)

### October

- 6-8 Homecoming
- 19-20 Fall Break (*residence halls open; limited dining hours*)
- 23 Instruction Resumes at 8 a.m.
- 24-25 Advising/Early Registration for Spring: Seniors
- 26-27 Advising/Early Registration for Spring: Juniors
- 31-11/2 Advising/Early Registration for Spring: Sophomores

### November

- 3-4 Parents Weekend
- 14-16 Advising/Early Registration for Spring: Freshmen
- 22 Thanksgiving Vacation Begins at 1 p.m. (*residence halls open; dining hall closed*)
- 28 Instruction Resumes at 8 a.m.

### December

- 12-15 Final Exams\*
- 16 Residence Halls Close at 5 p.m.

## Spring Semester 2007

### January

- 7 Residence Halls Open
- 8 New Student Orientation and Registration (*meal contract starts at 5 p.m.*)
- 9 Instruction Begins
- 9-11 Missions Conference

### February

- 9-10 Li'l Sibs Weekend

### March

- 5-12 Spring Break (*residence halls open; dining hall closed*)
- 13 Instruction Resumes at 8 a.m.
- 20-21 Advising/Early Registration for Fall: Seniors
- 22-23 Advising/Early Registration for Fall: Juniors
- 26-27 Advising/Early Registration for Fall: Sophomores
- 28-30 Advising/Early Registration for Fall: Freshmen

### April

- 2 Academic Honors Day
- 6-9 Easter Break (*residence halls open; limited dining hours*)
- 10 Instruction Resumes at 8 a.m.

### May

- 1-4 Final Exams\*
- 5 111th Annual Commencement (*residence halls close at 8 p.m.*)

## Summer Session I 2007

### May

- 13 Residence Halls Open
- 14 Instruction Begins
- 28 Memorial Day (*no classes*)

### June

- 1 Summer Session I Ends
- 2 Residence Halls Close at 12 p.m.

## Summer Session II 2007

### June

- 18 Orientation (*residence halls open*)
- 19 Instruction Begins

### July

- 6 Summer Session II Ends
- 7 Residence Halls Close at 12 p.m.

\*NOTE: 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.

To view the complete Cedarville University 2006-07 Academic Calendar, visit [www.cedarville.edu/0607acad](http://www.cedarville.edu/0607acad).

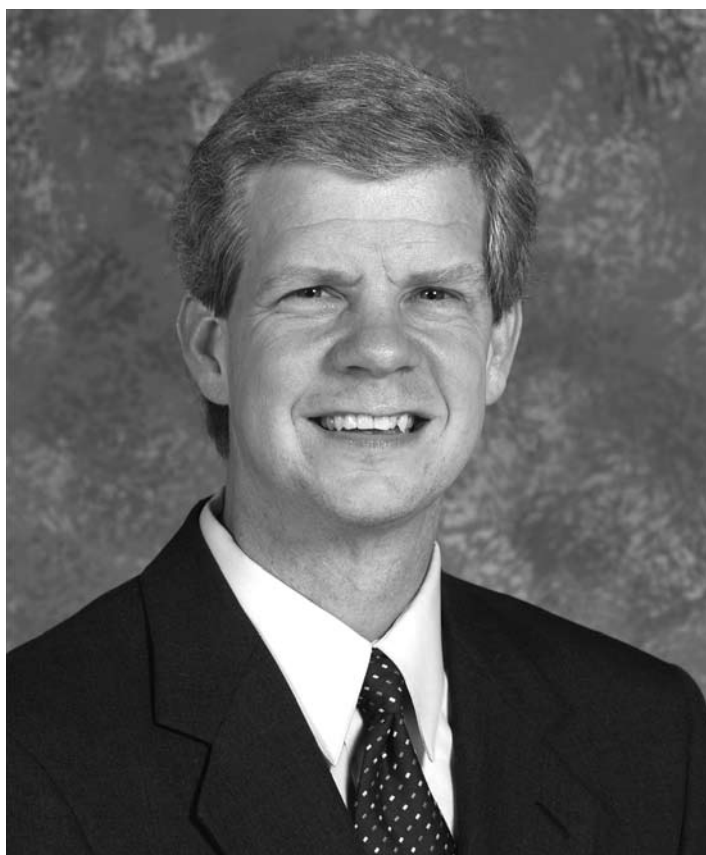


## **2006-07 Academic Catalog**

**A Baptist University of Arts, Sciences, and Professional Programs**  
*Established in 1887*

The Cedarville University Catalog is published annually by the Admissions Office. While every effort is made to provide accurate and up-to-date information, the University reserves the right to change, without notice, statements in the catalog concerning policies, fees, curricula, course offerings, and other matters.

Printer: *Post Printing Company*, Minister, OH



## A Word from Our President

Cedarville University's Christ-centered learning community provides an exceptional environment in which to prepare for your life's career and ministry.

We pray each student's experience at Cedarville is marked by tremendous growth – intellectually, physically, emotionally, socially, and spiritually. Those of us in the Cedarville family are committed to equipping students for lifelong leadership and service for our Lord by offering an education marked by excellence and grounded in biblical truth.

Christians have countless opportunities to engage the world for Christ through business, medicine, law, engineering, education, the pastorate, missions, public office, counseling, and many other professions. At Cedarville, we strive to challenge you in pursuing a heart for God, forming a mind for truth, making friends for life, and committing to service for eternity. We want you to be both a committed Christian and a competent professional so that you can make a difference in this world for Jesus Christ.

This catalog is designed to answer many questions you may have. All of us in the faculty, staff and administration at Cedarville stand ready to assist and encourage you.

God Bless,

A handwritten signature in cursive script that reads "Bill Brown". The ink is dark and the signature is fluid and legible.

Bill Brown  
President, Cedarville University

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## History

Cedarville College was established on January 26, 1887, through the vision of five godly men who dreamed of a college that would provide Christian young people with an education that was offered within a spiritual framework. Affiliated with the Reformed Presbyterian Church, the College attracted many area students and built its first building, "Old Main," now called "Founders Hall," in 1895. Year after year, Cedarville attracted a record number of students and soon gained a reputation not only for its Bible teaching but also for its liberal arts program.

The turbulence of the first 50 years of the 20th century led to hard times for the College. Following World War II and one final attempt at revitalization, the trustees realized that the enrollment could not support expenses. The College would either have to find another church group to assume its operation or close its doors.

At that time the trustees of the Baptist Bible Institute of Cleveland, Ohio, were seeking a campus on which to expand. Hearing of Cedarville College, they visited the campus and were convinced that Cedarville was the site that God had chosen for their school. Upon mutual agreement by both trustee boards, ownership of the College was transferred on April 4, 1953. Cedarville College became a Baptist college of arts and sciences. James T. Jeremiah, the pastor who first suggested the Baptist Bible Institute-Cedarville College connection, was called to be the College's president.

Soon the College was alive and flourishing. By 1959, the enrollment had grown to 255. Faculty, staff, and facilities were added. Six years later the student body had nearly tripled to 763. By the end of Dr. Jeremiah's 25-year tenure as president in 1978, the College's enrollment had grown to over 1,200 students.

Paul Dixon was then called to lead Cedarville College. Through his leadership, the College flourished in every area, with nearly 3,000 students, more than 100 programs of study, and many new facilities.

In April of 2000, the Board of Trustees voted to change the designation of the institution from college to university effective September 1, 2000. Under the leadership of the current University president, Dr. Bill Brown, the future looks bright for Cedarville University as it seeks God's continued blessing and enters its 119th year of service with approximately 3,100 students.

## Profile

Cedarville University is a Christ-centered Baptist University of arts, sciences, and professional and graduate programs. Since its founding, Cedarville has coupled a balanced liberal arts program with a conservative theological position in regard to doctrine and patterns of conduct. All classes are taught by dedicated Christian professors who integrate the knowledge of their respective fields with biblical perspectives.

In keeping with the liberal arts concept, the undergraduate curriculum centers on a basic program of general studies including: biblical education, communications, global studies, humanities, physical education, science and mathematics, and the social sciences. Following this program, students choose a major field of concentrated study related to their abilities, interests, and career goals. Upon completion, students receive the baccalaureate degree. The University also offers graduate coursework.

## 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.

To achieve this purpose the University seeks to accomplish the following objectives:

1. To undergird the student in the fundamentals of the Christian faith and to stimulate each student to evaluate knowledge in the light of scriptural truth.
2. To encourage growth in Christian character in each student and to help the student accept responsibility for faithful Christian service.
3. To increase each student's awareness of the world of ideas and events which are influencing our contemporary culture and to prepare each student to participate knowledgeably in our society.
4. To enable each student to develop sound critical and analytical reasoning.
5. To provide sufficient opportunities for each student to practice the skills of communication.
6. To offer opportunities for academic specialization and preparation for graduate study and to assist each student in selecting and preparing for a vocation.
7. To foster each student's appreciation of and participation in whole some avocational and cultural activities.

## Recognition, Accreditation, and Licensure

Cedarville University is a four-year and graduate degree-granting institution chartered by the State of Ohio and certified by the Ohio Board of Regents. The University is approved by the State Department of Education and the Association of Christian Schools International for the education and licensure of teachers. The Bachelor of Science in Nursing degree is accredited by the Commission on Collegiate Nursing Education (CCNE). The Bachelor of Science in Mechanical Engineering degree and the Bachelor of Science in Electrical Engineering degree are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). 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 Allied Health Education Programs (CAAHEP). The Bachelor of Arts in Business Administration program is 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 programs are accredited by the National Association of Schools of Music (NASM).

The University holds membership in the North Central Association of Colleges and Schools, Web: [www.ncahlc.org](http://www.ncahlc.org), phone: 312-263-0456. This recognition signifies that the University is accredited.

The University also holds membership in the Council for Christian Colleges and Universities. For a listing of additional memberships, visit

[www.cedarville.edu/about/accreditation.htm](http://www.cedarville.edu/about/accreditation.htm).

Information concerning accrediting agencies and respective accreditation requirements is available in the office of the academic vice president.

### The 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, haircutting establishments, post office, pharmacy, convenience store/gas station, a few restaurants, the ever-helpful Cedarville Hardware, and a coffee shop where many students like to relax and socialize with friends. Massie's Creek and an adjacent park 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, such as a gymnasium, chapel, and theater. 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 four general classrooms, a 40-station general usage computer laboratory, a video-conferencing 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.

#### Athletics and Recreation Complex

This complex features the Callan Athletic Center, Doden Field House, Fitness Center, and University Medical Services. It provides space for academic programs in the departments of athletic training, and exercise and sport science as well as for fitness and recreational activities.

#### Callan Athletic Center

Constructed in 1981, the Callan Athletic Center provides year-round recreation and training. This sports center features three full-length basketball courts, five volleyball courts, eleven badminton courts, a free weight room for athletes, team and general use locker rooms, and a laundry facility to meet athletic team needs. It seats more than 3,000 fans for basketball games. The newly renovated second floor, opened in January 2003, includes the varsity room, six new classrooms, an exercise science lab, and office space for faculty and coaches in the School of Health and Human Performance.

#### Doden Field House

The largest section of the complex is the Doden Field House, added in 2003. This 60,000 square-foot area features four courts that can be used for indoor soccer, basketball, volleyball, and other sports. It also includes three batting cages, a 200-meter track, and bleachers to seat 1,000 spectators. This track is used for individual walking and jogging as well as full indoor track meets.

#### Fitness Center

Also added in 2003, the fitness portion of the complex is an open, inviting area. A climbing wall, reaching 40 feet in height, captures the attention of all who enter. This fitness area provides a significant number of cardiovascular machines, free weights, and Nautilus strength-training machines. Students can also enjoy a room for aerobic classes and workouts, three racquetball courts, and a vending and lounge area. There is a new state-of-the-art athletic training room complex. Several staff offices and a storage area for outdoor recreation equipment are also located in the Fitness Center.

#### University Medical Services

Another section added to the complex in 2003 is University Medical Services, which provides ambulatory health care with a staff that consists of physicians and College Health Certified registered nurses. University Medical Services offers many health care 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 pages 7 and 235 for more information.

#### CDR Radio Network Center

This facility houses the CDR Radio Network, the University's radio ministry. Listeners worldwide "tune in" to CDR through a Real Audio Internet broadcast from the University Web site. A listener-supported ministry, the network offers a quality mix of praise and inspirational Christian music, Bible-centered programming, and relevant news and information.

#### Centennial Library

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 over 800 students. Designed to house a collection of up to 250,000 volumes, the library also contains the media resource center, the center for teaching and learning, the curriculum materials center, computer and media-supported classrooms, a variety of individual and group study facilities, and the University archives.

The library presently houses approximately 190,000 volumes and provides almost 1,000 periodical subscriptions in print form and over 5,600 subscriptions in full-text computer format. As a member of OhioLINK, a cooperative of 84 institutional libraries, students and faculty have access to more than 8,000,000 unique titles in a centralized computer catalog. In addition, through an online computer network, OCLC, the library has access to approximately 50,000,000 books and other library materials in over 46,000 libraries in all 50 states, Canada, and many foreign countries.

#### Collins Hall

Collins Hall houses the department of social sciences and history, the travel study office, and the office for summer school and continuing education.

**Dixon Ministry Center**

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

The 3,400-seat chapel is the site of daily chapel services that bring the University family together for worship and instruction from God's Word. This auditorium features a 9-foot Steinway grand piano and a Rodgers 960 organ.

The department of music facilities include 14 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, Nursing, 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 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 reflecting telescope with a 16-inch mirror, an audio visual learning laboratory, a simulated hospital ward, and an engine test cell.

**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 multi-purpose conference room and six faculty offices.

**Fine Arts Center**

Located two blocks south of the main campus, this stately structure, donated by Andrew Carnegie, supports Cedarville's art program with a classroom, general art studio, photography darkroom, and 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, academic vice president, and Bible department faculty.

**Human Resource and Safety Center**

Following its renovation in 2001, the Human Resource and Safety Center houses the administrative offices of human resources, campus safety, and the copy center.

**Milner Business Administration**

Opened in 1987 and featuring the latest in instructional technology, the George Milner Business Administration Building contains 10 general classrooms, a computer classroom, the trading center, the center for business innovation, and faculty offices for the department 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 arts.

**Stevens Student Center**

This student-friendly facility houses the dining hall, snack shop, bookstore, six classrooms, general computer lab, post office, game room, student radio station, career services office, theater, and student government. The 150,000 square-foot building is also the home of the admissions, financial aid, registrar, counseling, student life, and student life programs offices.

The main cafeteria serves 21 "all-you-can-eat" meals a week. Students have the option of choosing either the full 21-meal plan or the 14-meal plan. The President's Dining Room features formal dining in an elegant setting. Used by the University's president, it may also be reserved by students who wish to enjoy a formal dining occasion.

The bookstore endeavors to provide students with the materials necessary to enjoy a successful college experience. It offers everything from sweatshirts to textbooks and greeting cards to Christian music.

The theater complex includes a 400-seat theater, movement studio, makeup suite, scene design lab, scene shop, offices, and dressing rooms. The theater has a 36-foot by 18-foot proscenium arch, 38 lines with full fly space, and a Gala electronic lift system for the orchestra pit.

**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, marketing services, advancement, and computer services are also located in this building.

**Williams Hall**

Providing classrooms and offices, Williams Hall serves as the home of the academic departments of education, language and literature, and psychology.



*The Dixon Ministry Center – the heart of the campus.*

### Computer Network

Cedarville University is known nationally as a leader in campus computer networking and instructional technology, providing networked computers in each of the residence hall rooms, laboratories, and offices. One of the major advantages to the network, called CedarNet, is that students have access to over 150 commercial software packages directly from the residence hall rooms, without going to a specialized laboratory.

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.

#### Equipment

The network features Pentium or AMD computers with 512MB or more of RAM, hard disk drive, DVD/CD-RW drive, USB ports, Ethernet interface, and monitor. In addition, each networked residence hall room contains an inkjet printer/scanner. All computer laboratories offer high-quality laser printers and flatbed scanners. The library computer laboratory also features color printers, digital cameras, and other specialized equipment. Cedarville is a participant in Internet 2, which means that Internet traffic goes over the fastest-available connections. Each residence hall room has two 100Mbps network connections, for use by the University-provided computer and for student-provided systems. Students who bring their own notebook computers have wireless access in all campus buildings and in many outdoor areas.

#### Access

All students living in a residence hall benefit from 24-hour access to the network. Residence hall computers are replaced on a three-year cycle so that students always have current technology available. To enable students to take further advantage of the network, public laboratories, with a total of 150 stations, are conveniently open to on and off-campus students.

Wireless network access is provided in most classroom areas, co-ed lounges, dorm rooms, and in large gathering areas such as the Centennial Library, the Stevens Student Center, and the Dixon Ministry Center.

#### Benefits

Students using the network can:

- Communicate electronically on campus with professors, friends, and classmates, or with friends and family around the world.



Not only can computer labs be found in every major academic building on campus, but all campus buildings are also equipped with wireless access.

- Manage, display, and analyze data using spreadsheet, statistical, and database software.
- 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.
- Learn to use the network through online tutorials and training seminars for commonly-used software applications.

#### Technology Advisory Council

The Technology Advisory Council consists of corporate leaders and professionals representing a variety of technology-oriented businesses. Annually, these experts advise the University and evaluate its plans for further strengthening Cedarville's position as a leader in instructional technology.

*Dr. Eugene Apple, General Electric*

*Mr. George Chessum, Resurrection Health Care*

*Mr. David Cossey, Union College*

*Mr. Carl Dill, TriCour Partners*

*Mr. Aaron Fessler, MediaSentry*

*Mr. Brian Gammon, National City*

*Mr. Greg Garrison, FannieMae*

*Mrs. Marivi Garrison, Dulles Group*

*Dr. Shawana Johnson-Kerr, Global Marketing Insights*

*Ms. Alice Kaltenmark, LexisNexis*

*Mr. Tom Kerr, PraEis Ltd.*

*Mr. James Kregel, Kregel Publications*

*Mr. Ed Krupka, Burris Information Technology*

*Mr. Fred Laxton, Executive Consultants*

*Mr. Douglas Macrae, TVGuide*

*Mr. Andrew Mininger, Imagedog*

*Mr. Robert Murphy, J.W. Pepper & Son, Inc.*

*Mr. William Pardi, Microsoft Corporation*

*Mr. Mark Prevost, TopNoggin*

*Mr. Jonathan Price, CBC Companies*

*Mr. Al Stevens, Opex Corporation*

*Mr. Walt Weisel, Robotic Workspace Technologies*

*Mr. David Whitten, General Motors*

*Mr. Scott Whitten, EDS*

*Dr. Michael Zastrocky, Gartner Group*

### University 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

The career services office seeks to assist students in determining their God-given skills and interests. Students use assessment tools to translate abilities, values, and aspirations into a plan of action for sound career/ministry decisions.

Career Services provides materials for job-search techniques, resumè writing, interviewing, and gaining admission to graduate school. Interest inventory tests and a computer-assisted career development program are available to help students in determining majors and occupations. In addition to a career library, the career services home page ([www.cedarville.edu/career](http://www.cedarville.edu/career)) links to the very latest in network-based job search programs, guides to major employers, and directories for graduate schools.

Career Link Days are held each year to provide an opportunity for prospective employers to meet with students. Potential employers also visit the University for individual on-campus



recruiting days. Video conferencing is available for employer/student interviews.

Registered students are placed in a job-match database that enables career services personnel to provide resumés to employers and publish them on the Internet. The office maintains credential files for all education majors and provides seniors and alumni with a reference/credential service.

### Career Services Advisory Board

The Career Services Advisory Board consists of professionals from nonprofit and for-profit sectors, other college career offices, and graduate school programs. The board meets annually to advise and evaluate Cedarville's plans for further strengthening the career and ministry placement services.

*Jeffrey A. Carter, The University of Dayton*

*Timothy Houghton, The Horace Mann Companies*

*Jim Leightenheimer, Cedarville University*

*Salvatore LoDico, HR Consultant*

*Larry Mealy, Taylor University*

*Marcella Sampson, Central State University*

*Jennifer Sheehan, Rocking Horse Center*

*John Styll, Gospel Music Association*

*Ronald Walker, Cedarville University*

*Myron L. Youngman, The Kaifa Group, Inc.*

### Counseling Services

The counseling services office 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. Support groups that address specific topics of concern are available throughout the academic year. 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.

Additional resources for counsel and guidance include the vice president for Christian ministries, faculty members, and staff members. Faculty advisors are particularly prepared to assist students in program and course selection.

**Phone:** 937-766-7855

**Web:** [www.cedarville.edu/counseling](http://www.cedarville.edu/counseling)

**E-mail:** [counsel@cedarville.edu](mailto:counsel@cedarville.edu)

### Healthcare and Medical Services

Student healthcare is provided by University Medical Services (UMS), a full-service ambulatory care facility that provides health care services similar to a family practice office. UMS is located adjacent to the Doden Field House and contracts with several local physicians and practitioners so that health care services are available to students right on campus. UMS is staffed by expert physicians, nurses, and paramedics that love caring for young adults and are committed to providing quality health care. The services of UMS include physician and nursing appointments, physicals for athletics and ministry participation, academic physicals, laboratory services, prescription dispensary services, allergy clinic services, immunization clinic, and travel immunization services, to name a few. 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.

Most services at UMS are free as a benefit of tuition, regardless of whether or not a student has insurance. Examples of free services are over-the-counter medications, equipment loans, and visits to see the nurse due to illness or injuries. There is a \$15 charge for physician and nurse practitioner visits and a nominal

charge for prescription medications, immunizations, and lab testing. Students will be given a receipt for any fees incurred at UMS, and any charges will be placed on the student's account. Because UMS is not set up to bill any insurance company, it is recommended that students contact their private insurance company or the student health insurance office for any insurance benefits to which they may be entitled.

**Phone:** 937-766-7862

**Fax:** 937-766-7865

**Web:** [www.cedarville.edu/ums](http://www.cedarville.edu/ums)

**E-mail:** [univmed@cedarville.edu](mailto:univmed@cedarville.edu)

Another health care service available to students on campus is Cedarville University Emergency Medical Services (CUEMS), a volunteer EMS ambulance ministry manned with students who are nationally and state certified EMTs and/or paramedics. 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 Web site: [www.cedarville.edu/ums](http://www.cedarville.edu/ums). For information about how you can become an EMT, refer to page 17.

### 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 old and older must secure off-campus housing.

Approximately 80% 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 just two students per room. Each room is fully furnished and "phone ready," permitting students to dial and receive calls directly. Every residence hall room is equipped with a networked computer and printer.

Housing assignments are made by the student life office. Upperclassmen who have paid reservation fees are given priority for reserving rooms. New students are assigned rooms after they have been admitted and have submitted their reservation deposits. Complete information concerning residence hall staffing, furnishings, and policies is found in the student handbook at [www.cedarville.edu/studenthandbook](http://www.cedarville.edu/studenthandbook). A student handbook will be mailed to new students prior to their arrival on campus.

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

### New Student Orientation

At the start of each semester, 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

Freshmen with grade point averages of 2.5 or higher may bring motor vehicles to the University after their first semester. Sophomores, juniors, and seniors must maintain a 2.0 cumulative grade point average to retain the privilege of having a motor vehicle at the University. All motor vehicles must be registered with the campus safety office.

### Chapel

Dr. Dixon, Cedarville's chancellor, has said many times, "The heartbeat of every Christian university is chapel."

Five days a week the Cedarville family and guests meet in the 3,400-seat James T. Jeremiah Chapel. At 10 a.m. the auditorium comes alive as the University family laughs, cries, sings, prays, and worships together. It is a place to connect as a strong family does.

Speakers from far and near grace the chapel platform to inspire and challenge. People like Dr. David Jeremiah, Dr. John Piper, Dr. Howard Hendricks, Rev. D.Z. Colfield, Mike Haley, and Carol Kent share personal testimonies or messages from God's Word.

Alumni often mention chapel as one of the things they miss most after graduation. Many return to sit in on one more chapel experience.

### Student Life

Cedarville seeks to maintain a culture that reflects the values of the kingdom of heaven and the spirit of Jesus Christ. The student life program is 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 neighbors, excellence in effort, and integrity in conduct.

#### Spiritual Emphasis

The University desires that each student grow in his or her 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. Additionally, all students are required to maintain regular worship at a local church and to engage in other activities that enhance their spiritual formation.

Spiritual growth is further encouraged through student prayer groups that meet regularly to pray for special needs. One day a year is set aside as a "Day of Prayer," a time when the entire University family gathers to pray together.

#### 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 covenant together to express our love for God through our obedience to the authority of His Word, our practice of spiritual disciplines, and regular expressions of worship and Christian service.
- We covenant together to express our love for others through acts of kindness, wholesome and uplifting speech, redemptive expressions of confrontation and forgiveness, merciful acts to those in need, and loving proclamation of the gospel.
- We covenant together to be people of integrity and self control, truthful in our speech, honest in our conduct, and morally pure in both thought and action.

- We covenant together to pursue excellence in all that we do as an expression of our gratitude to God and desire to be good stewards of all God's gifts, including our talents, time, and resources.
- As members of this community, we voluntarily submit ourselves to all of the guidelines in *The Cedarville Experience* and agree to uphold them with integrity and honesty.

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 [www.cedarville.edu/studenthandbook](http://www.cedarville.edu/studenthandbook).

#### Co-Curricular Opportunities

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

Debate – Communication Arts, pg 66

Engineering Competitions – Engineering and Computer Sciences, pg 96

Forensics – Communication Arts, pg 66

Math Club – Science and Mathematics, pg 182

Miriam Maddox Forum – Communication Arts, pg 66

Student Radio Station – Communication Arts, pg 66

Theatre – Communication Arts, pg 66

#### 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 typically determined through auditions, which occur during Getting Started weekend.

Instrumentalists may participate in the symphonic band, brass choir, University orchestra, jazz band, flute choir, Yellow Jacket Pep Band, or various chamber ensembles.

Vocalists may sing with the concert chorale, men's glee club, women's choir, opera workshop, Jubilate ministry choir, OneVoice (gospel choir), or one of the many small ensembles directed by the Division of 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 American Midwest Conference, the National Association of Intercollegiate Athletics, and the National Christian College Athletic Association.

Students interested in participating on an intercollegiate athletic team should contact the admissions office or the respective coach. A limited amount of athletic financial aid is available for outstanding athletes.

#### Campus Recreation

The campus recreation program provides 30 intramural sports, various outdoor pursuit trips, fitness programming, special events, and the 40-foot-high indoor climbing wall to help meet the fitness and recreational needs and interests of our University family. For a listing of activities and additional information, visit [www.cedarville.edu/recreation](http://www.cedarville.edu/recreation).

## Student Life Programs

The office of student life programs provides cultural, social, educational, and recreational activities. Programs include Christian concerts with groups like Newsboys, Jars of Clay, Third Day, and David Crowder Band; musical specialists; talent nights; all-school parties; special interest trips; retreats; topical discussions; and guest speakers. Involvement in campus organizations provides additional opportunities for learning and social interaction.

### Organizations

**Student Government Association** 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/Professional Organizations*

**American College Health Association** is the principal advocate and leadership organization for college and university health. The organization 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.

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

**Association of Information Technology Professionals** 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.

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

**Music Educators National Conference** is the University's student chapter of Music Educators National Conference for music majors and others involved in pursuing a music teaching program.

**Society for Technical Communicators** promotes the purposes and services of technical communication systems.

#### **Society for Women Engineers**

**Society of Automotive Engineers** provides its members opportunities to gain broader insight into the engineering profession.

**Society of Engineers Aiding Missions** has as its mission to educate, equip, and engage engineers in the cause of world missions.

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

**Students in Free Enterprise** is an organization that 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.

#### *Academic/Honor Organizations*

**Alpha Beta Phi** is Cedarville's chapter of Alpha Psi Omega, the national honorary theatre organization, and seeks to promote awareness and appreciation of the theatre arts on campus. Membership is open to all majors and is based on meeting national criteria for dedication to and excellence in stagecraft.

**Alpha Kappa Delta** is an English honor organization that recognizes outstanding students in the English program.

**Delta Mu Delta** is an international honor society in business administration that recognizes junior and senior business majors who maintain excellent scholastic achievement.

**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.

**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.

**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.

#### *Media Organizations*

**Cedars** The editorial staff is comprised of students who publish the campus semi-monthly newspaper.

**U99.5 FM** is the student-operated radio station of Cedarville University that serves the student body with information and entertainment.

**Yearbook** The Miracle staff is a group of students responsible for the publication of the University yearbook.

#### *Special Interest Organizations*

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

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

**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.

**Air Force ROTC** – see page 132.

**Army ROTC** – see page 133.

**Chess Club** provides opportunities for fellowship and interaction with students who enjoy the game of chess.

**Cedarville Racquetball Club** is devoted to facilitating and promoting racquetball, helping players improve their game, while learning to love the game more.

**College Libertarians of CU** is an organization dedicated to the development of Christian leaders in the political arena.

**CU Republican Club** is an organization dedicated to the development of Christian leaders in the political arena.

**CU Transformed** is for paintball enthusiasts. Open to any student, faculty, or staff who has an interest in paintball, this organization promotes opportunities to play together as well as seeks out ministry through the avenue of paintball.

**Delta Alpha Epsilon** DAE is a group of junior students who work directly with the Cedarville University Alumni Association and Advancement Division in serving alumni and friends of the University.

**High Calling** is a rock climbing club devoted to facilitating and promoting technical climbing as an extra-curricular activity and encouraging other rock climbers in Christian love while demonstrating a Christian lifestyle.

**Officers Christian Fellowship** exists to promote spiritual growth and camaraderie among Air Force and Army ROTC cadets.

**Renaissance Guild** increases learning and awareness of the medieval and renaissance eras and provides fellowship with like-minded individuals.

# Introduction

## Student Life

**Students for Religious Freedom** seeks to inform and involve the student body and churches regarding religious persecution.

**The Underground** provides a community for music enthusiasts that fosters awareness of and provides for campus bands in the local area.

### Academic Organizations

**Alpha Psi Omega** consists of students interested in psychology and behavioral sciences.

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

**Chi Delta Nu** encourages students going into youth ministry through prayer and fellowship.

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

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

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

**MERCY Team (Council for Exceptional Children)** is dedicated to advancing the education of individuals with exceptionalities and to promoting related educational, scientific, and charitable purposes. Specifically, the organization intends to assist and provide support to individuals with disabilities at Cedarville University and to individuals and their families in the greater Cedarville community.

**Omega Tau Kappa** is dedicated to preparing members to be more effective science educators through professional development, service to the education profession, and social interaction.

**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.

**Student CEOs** is dedicated to enhancing communication between the department 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.

### Cross-Cultural Organizations

**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.

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

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

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

**Société de Français** (the French Club) promotes the use of the French language and increases the knowledge and appreciation of French culture to advance awareness of missions.

### Service Organizations

**Big Bird** is a community service organization dedicated to providing assistance to area families and aiding the community with miscellaneous tasks.

**CUEMS** is an organization of trained students who provide prompt and professional pre-hospital care and transportation to Cedarville students in need.

**Habitat For Humanity** is a student organization committed to demonstrating Christ's love in truth and deed by working with local housing organizations to provide housing.

### Social/Service 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.

**Delta Omega Epsilon** is a men's organization whose projects and activities provide social and service benefits for the University.

**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.

**Gamma Chi** is a women's service organization formed for women with a passion for their local church. It helps women connect with local churches in or near Cedarville, believing that committed involvement in local churches during their years at Cedarville will prepare them to serve at churches in their future.

**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.

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

**The P.E.A.C.E. Project** is a service and social organization that seeks to foster and promote a God-centered attitude of multiculturalism for the entire Cedarville family.

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

**Women of Vision** is a women's organization that seeks to improve the quality of life for women and children throughout the world by linking students with women in the community and University in mentoring relationships for service.

**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.

### Leadership Opportunities

Student life programs provide opportunities for leadership development. The Leadership Institute at Cedarville University is designed to enhance the character traits, knowledge base, and skills of developing student leaders. The philosophy of The Leadership Institute assumes that inherent leadership potential varies in individuals based on personality strengths, intellect, and spiritual giftedness, but that all students can increase their leadership ability over time. Opportunities include, but are not limited to, the following:

- **The Excel Initiative** – Workshops for all students who desire enhanced leadership skills.
- **The Character Forum** – Panel discussions, chapel series, and awards develop and recognize strong character.
- **Mentoring Programs** - Veranda Life (women) and MMM (men) connect students with proven leaders for personal reflection and accountability.

## Christian Ministries

The Division of Christian Ministries coordinates all University-sponsored student ministries. Cedarville views individual ministry involvement to be a vital and necessary part of each student's education and personal growth. Students are taught that biblical Christianity demonstrates a servant's heart in all areas of life. All are challenged to consider how their academic disciplines, interests, and abilities can be used to demonstrate their faith. Cedarville endeavors to stretch students' vision of ministry and develop a constant awareness of God's call upon their lives.

Directed by the vice president for Christian ministries and coordinated through full-time and part-time staff members, the Division of Christian Ministries provides training and assistance to the hundreds of students who volunteer each year.

### Community Ministries

#### Weekly Ministry Teams

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 hundreds of smaller communities. Approximately 80 teams serve the local communities and churches each week. Ministry teams seek to serve individuals and churches of this area by providing assistance in specialized areas, including crisis pregnancy/abstinence and counseling ministries, evangelism/urban outreach ministries, public school tutoring/teaching english ministries, youth and children's ministries, jail/detention center ministries, hospital ministries, nursing home/elderly visitation ministries, special needs ministries, and local church ministries.

#### Spring Break Ministry Teams

A number of teams are available to give students the opportunity to minister during Spring Break. Ministries include but are not limited to the following: Child Evangelism Fellowship (PA), Project Genesis (NYC), Inner City Impact (Chicago), The Master's Mission (NC), Open Air Evangelism (NYC), Shepherd's Ministries (WI), Urban Hope (Philadelphia), and Urban Impact (NYC).

### Cross-Cultural Ministries

The University's own Missions Involvement Services (MIS) provides unique opportunities for students to experience missions firsthand. Each year during breaks and in the summer, more than 350 students minister around the globe. This involvement in missions aids missionaries in their work and helps students discern God's direction in their own lives. Participants raise their own financial and prayer support prior to leaving and report on their ministries upon returning.

MIS participants have served nearly 70 countries since the program started in 1970. For specific information concerning potential ministries and selection procedures, students should contact the MIS director, Brian Nester.

Students considering international careers in education often take advantage of the MIS program to gain cross-cultural experience while completing the student teaching segment of their education requirements. Students interested in this option should contact the education department for information and approval.

The majority of students who participate in the MIS program do so as members of teams. Created to perform a particular service such as singing, drama, puppets, medical assistance, technical assistance, orphan care, teaching English as a second language, or physical labor, teams are typically selected each fall. Students interested in team ministries should contact the MIS director for details.

### Discipleship Ministries

While many ministries concentrate on "outreach" from campus, the focus of discipleship ministries is "in-reach" on campus. Opportunities include approximately 80 student-led small group Bible studies as well as several prayer groups. Discipleship ministries are excellent avenues for students to grow in their walk with God and find opportunities to minister to fellow Cedarville University students.

### Touring Team Ministries

Touring teams offer an exciting opportunity to minister and represent Cedarville University. Selected on an audition basis, all team members receive a salary. Teams rehearse approximately six hours a week and travel five weekends each semester and nine weeks during the summer. Auditions are held each year during the first week of school.

- **Lifeline Players** (*six members*) use drama to encourage and challenge youth and adults in their faith (team selection is held in the spring).
- **Master's Puppets** (*six members*) use puppetry and a variety of other teaching methods to minister to children.
- **HeartSong Teams** are eight-member ensembles with vocalists, keyboard players, guitarist, percussionist, and sound technician.
- **OneVoice Gospel Choir** is a music ministry that is open to all students and uses various music styles including black gospel and contemporary Christian to spread the gospel of Jesus Christ and encourage believers to celebrate the joy of the Lord.

### Selecting a Ministry

All students participate in Christian ministries voluntarily. As a result of the large number of ministries available, deciding which way to serve can seem overwhelming.

In selecting a ministry, students should apply the following:

1. Consider your interests. Select a ministry that allows you to do something you enjoy.
2. Consider your vocational goals. There are many ministries that are directly related to the majors offered at Cedarville University. A Christian 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.
3. Talk with upperclassmen. Find someone who has experience in the ministry you are considering.
4. Talk with the Christian ministries staff in the Dixon Ministry Center. The staff is available to answer questions you might have.
5. Attend organizational meetings, many of which occur during the first two weeks of Fall Semester.

### Guidelines

1. All students are encouraged to participate in the University's volunteer Christian ministries program.
2. Students are asked to record their current area of ministry involvement each semester.
3. University-owned transportation or mileage reimbursement is provided for those ministries approved through the Division of Christian Ministries.

## Admission Criteria

Cedarville University invites applications from high school students and transfer students who are able to present strong academic records and a clear testimony of faith in Jesus Christ. In selecting students, the Admissions Committee admits students who are most likely to contribute positively to the University community and to graduate. They carefully consider all factors that demonstrate the applicant's ability to succeed at Cedarville University. Students who wish to attend the University on a part-time basis should also follow these admission procedures.

Criteria for selection include:

1. Evidence of a personal relationship with Jesus Christ and a consistent Christian lifestyle.
2. High school transcript, recommendations, and rank in class.
3. Scores from the ACT or SAT I tests.
4. College transcripts for all previous college coursework (if applicable)

ACT scores are preferred. Because test scores are used for placement purposes, transfer students may be asked to submit them.

Applicants with the best prospects for admission have academic credentials that include a college-preparatory high school curriculum, at least a "B" grade average, a rank in the upper half of the class, and an ACT or SAT I test score above the national average.

Except for those admitted under the early admission program, students must give evidence of high school completion by the time they begin taking courses at the University.

The University does not discriminate on the basis of race, color, sex, or national origin. The University admits students with various disabilities.

### High School Course Recommendations

Although the University does not prescribe actual high school course requirements, it recommends that students follow a college preparatory curriculum that includes:

- 4 units of English (grammar, composition, and literature)
- 3-4 units of mathematics (algebra I, II, geometry, and trigonometry)
- 3 units of natural science (physical science, biology, and chemistry)
- 3 units of social studies (history and government)
- 2-3 units of a single foreign language

Students planning to study engineering, science, mathematics, or nursing should take as many mathematics and science courses as possible in their secondary school curricula.

High school electives should be chosen to develop interests and skills in related practical fields. Skill in keyboarding is of real value in completing many course assignments and is of particular importance to students who plan to enroll in college computer courses. Keyboarding skill enables students to take full advantage of the extensive computer resources at the University.

### Home-schooled Students

The University welcomes applications from students with non-traditional high school experiences. Scores from standardized tests such as the ACT or SAT I are used to help assess readiness for college-level academic work. To assist students unable to take the ACT locally, the University offers the ACT on campus for prospective students by appointment.

### Early Admission

Students who have completed their junior year of high school with advanced standing may apply for early admission. This is

especially helpful for students who anticipate a lengthy graduate program after graduation from college. In addition to following normal application procedures, early-admission applicants should submit superior academic records, strong recommendations from high school teachers, and a statement of approval from parents or guardians. An interview is also suggested.

## Admission Procedure

Students are encouraged to apply online at [www.cedarville.edu/myapplication](http://www.cedarville.edu/myapplication). Paper applications are available from the admissions office.

To be considered for admission to Cedarville University, a student must:

1. Complete and return an application for admission with a \$30 application fee.
2. Send ACT or SAT I score reports to Cedarville University. (Use the ACT code of 3245 or SAT code of 1151 when you register for the tests to have your scores sent directly to Cedarville.) The application for admission may be submitted before taking these tests.
3. Request that high school transcripts and a recommendation from the high school counselor be sent to Cedarville. Transcripts should include grades and class rank through at least the junior year.
4. Request a recommendation from the pastor or a church leader of the church the applicant attends.
5. Transfer students should request that official copies of transcripts for work completed at other colleges be sent to Cedarville University.
6. Students transferring from a Christian college must submit a recommendation from the dean of students.

Students who have been offered admission for a particular semester may request to defer their enrollment to a subsequent semester by notifying the admissions office in writing at least one month before the semester begins.

### Transfer Students

Students who wish to transfer to Cedarville must submit, along with their application for admission, official transcripts of credit from all colleges attended. College-level credits earned at accredited colleges are usually transferable. Applicants with the best prospect of admission have academic credentials that include at least a "B" grade average (3.0 on a 4.0 scale) in a full-time college-level class schedule. Courses in which less than a "C-" is earned are not granted transfer credit.



*A "Mind for Truth" is developed with careful direction from qualified and committed professors.*

Grades for courses taken at other colleges and transferred to Cedarville are not included in the Cedarville cumulative grade point average. Only the work completed at Cedarville is included.

To help in the transition to Cedarville University and to meet other new transfer students, all transfer students are required to attend a new student orientation.

Information concerning the transfer of credits is available from the office of the registrar. Specific course equivalencies can be determined upon receipt of official transcripts.

### Deadlines and Notifications

In most cases, Cedarville University follows a rolling admissions procedure. An application is reviewed by the admissions committee as soon as the file is complete. A completed file includes an application for admission, a \$30 application fee, ACT or SAT I scores, a high school transcript, a college transcript (if applicable), a high school counselor's recommendation, and a pastor's recommendation. Applicants are typically notified by letter within two weeks after the admissions committee acts upon the completed file.

There may be times when the admissions committee recommends that an applicant's file be held for later review. This process is known as deferred decision. Deferred decisions occur in December and March and involve a thorough review of the applicant's academic credentials as well as a variety of personal factors. Applicants who are held for deferred decision will be notified by letter.

### Readmission

Cedarville students who miss the course registration deadline or sit out for one semester or more must apply for readmission. A student wanting to re-enroll should submit their application for readmission at least two months before the start of the semester. Readmission forms are available online or from the admissions office. An updated recommendation from the pastor or church leader of the church you're attending is needed. If college-level work has been completed elsewhere, official transcripts should accompany the application 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 re-enrollment.

### Reservation Deposit

A reservation deposit must be submitted by new students as an indication of their intention to enroll. The amount of the deposit is \$250. This money is credited to the student's account and used to cover first semester expenses. A student must submit a reservation deposit to register for courses.

The reservation deposit is fully refundable if the request for refund is received before the reservation deposit deadline. Requests for refunds received after the reservation deposit deadline are partially refundable (\$150 of the \$250 deposit) until the refund date. No refunds are available after the refund date. All refund requests must be made in writing by the student.

Reservation deposit submission deadlines and refund dates are as follows:

Term	Deadline	Refund dates
Fall Semester	May 1	July 1
Spring Semester	Nov. 1	Dec. 1
Summer Session I	April 15	May 1
Summer Session II	May 15	June 1
Summer Session III	June 15	July 1

Students admitted after the reservation deposit deadlines must submit their reservation deposits within two weeks of notification of admission.

### International Students

Cedarville University welcomes applications for admission from students of all nations. The University was approved for attendance by non-immigrants by the Immigration and Naturalization Service in 1959. International students should follow the University admissions procedure carefully, submitting their applications well in advance of deadlines so that sufficient time is available for processing and communication. Those coming from countries in which English is not the native language may need to demonstrate their proficiency in English by taking the Test of English as a Foreign Language examination (TOEFL) and earning a paper-based score of 550 or better, a computer-based score of 213 or better, or an Internet-based score of 80 or better. All international applicants are required to submit either TOEFL, ACT, or SAT I scores (Cedarville's institution TOEFL and SAT code is 1151, the ACT code is 3245).

To satisfy United States Immigration and Naturalization requirements, upon acceptance international students must deposit \$25,610 (includes \$2,200 for personal expenses) at the University in United States currency or submit a certified affidavit of support that demonstrates the ability to cover University-related expenses. Full admission to the University is granted upon receipt of these funds or an affidavit. Questions concerning this procedure should be directed to the international student advisor.

International students can qualify for some academic institutional scholarships. Campus employment is also available during the school year and summer.



*The Lady Jacket cross country team has established itself to be one of the elite cross country programs year in and year out.*

## Academic Information

The Cedarville University 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 co-curricular 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.

### 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.

### 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 the admissions office, the office of the registrar, or the University Web site. 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, humanities, 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.

### 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 the admissions office.





## Degree Requirements

Cedarville University grants a master's degree and eight baccalaureate degrees: Master of Education (M.Ed.), Bachelor of Arts (B.A.), Bachelor of Science in Computer Engineering (B.S.Cp.E.), Bachelor of Music (B.M.), Bachelor of Music Education (B.M.E.), Bachelor of Science (B.S.), 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.
2. 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 grade point average of not less than 2.0.
4. Maintain a grade point average 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.
7. 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.
10. Participate in the University testing and assessment program when asked.
11. Complete an application for commencement.

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.
2. Have fulfilled each of the general education courses in biblical education.
3. 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.
4. Earn at least 43 credits in upper division courses (3000-4000 level courses).
5. 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 grade point average in the major.
7. Participate in the University testing and assessment program when asked.
8. Complete an application for commencement.

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

1. 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.
3. 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.
5. Fulfill the requirements of a designated major for the second baccalaureate degree.
6. Earn at least a 2.0 grade point average in the major.
7. Participate in the University testing and assessment program when asked.
8. Complete an application for commencement.

## 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 assistance 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 the career services office. 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 chairperson may approve a course substitution as an alternative to repeating a course.

To qualify for graduation, students must maintain at least a 2.0 grade point average for their major.

## Graduate Study at Cedarville

The Cedarville University graduate academic program is designed to meet the professional, personal, and spiritual needs of adults who desire to honor God with their careers and lives. 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 curricular experiences provide adults with an excellent background for professional competence in education in their chosen fields.

The **Teacher-Leader Program** is an accredited 32 semester hour Master of Education degree (M.Ed.). This program serves educators interested in enhancing their classroom effectiveness and becoming instructional leaders in their schools. The **Principal Licensure Program** is an accredited 49 semester hour extension of the Teacher-Leader program. This program can be individually tailored to meet Ohio licensure requirements for elementary, middle school, or high school. Electives permit students to develop specific areas of emphasis that correspond to their particular interests.

Three benchmarks make the Cedarville University graduate program worth consideration.

- Convenience – Program design works well with active professionals.
- Cost – Tuition is competitively priced with other graduate programs.
- Content – Biblical truth is integrated into all course content.

For information about available graduate opportunities at Cedarville, an application, or a graduate catalog, contact the graduate admissions office at 1-888-CEDARVILLE (233-2784), e-mail [gradprog@cedarville.edu](mailto:gradprog@cedarville.edu), or visit the graduate program Web site at [www.cedarville.edu/dept/graduate](http://www.cedarville.edu/dept/graduate).



*The Cedarville graduate program builds upon the University's reputation for preparing excellent classroom teachers by enhancing the effectiveness of practicing educators.*

## Major Fields of Undergraduate Study

The University offers 68 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
- American Studies\*
- Applied Psychology
- Athletic Training
- Bible Teacher Education\*
- Biology
- Chemistry
- Christian Education
- Church Music Ministries
- Communication Studies
- Comprehensive Bible
- Computer Engineering
- Computer Science
- Criminal Justice
- Early Childhood Education
- Electrical Engineering
- Electronic Media
- English
- Exercise Science
- Finance
- Forensic Science
- Graphic Design
- History
- History – Political Science\*
- Information Systems
- International Studies\* – Global Economics and International Business
- International Studies\* Missiology/World Missions
- International Studies\* – Social Science
- Keyboard Pedagogy
- Language Arts Education – Integrated
- Life Science Education
- Management
- Marketing
- Mathematics
- Mathematics Education – Integrated
- Mechanical Engineering
- Middle Childhood Education
- Molecular & Cellular Biology
- Music
- Music Composition
- Music Education – Multi-Age
- Music Performance
- Nursing
- Pastoral Studies
- Philosophy
- Physical Education – Multi-Age
- Physical Science Education
- Physics
- Physics Education
- Political Science
- Prelaw\*
- Preseminary Bible
- Psychology
- Public Administration\*
- Science Comprehensive Education – Integrated
- Social Studies Education – Integrated
- Social Work
- Sociology
- Spanish
- Spanish Education – Multi-Age
- Special Education – Multi-Age
- Sport and Exercise Studies
- Sport Management
- Studio Art
- Technical and Professional Communication
- Theatre
- 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:

- Bible
- Bioethics
- Biomedical Engineering
- Biology
- Broadcasting
- Business Administration
- Chemistry
- Christian Education
- Christian Ministries Management
- Church Music Ministry
- Coaching
- Communication Arts
- Computer Science
- Creative Writing
- Criminal Justice
- Cross-Cultural Nursing
- Earth Science
- Economics
- German
- Graphic Design
- Greek
- Health Education – Multi-Age
- Health Promotion
- History
- Information Systems
- International Business
- International Studies
- Literature
- Mathematics
- Missions
- Music
- Philosophy and Religion
- Organizational Communications
- Physics
- Political Science
- Preseminary Bible
- Psychology
- Public Administration
- Sociology
- Spanish
- Spanish for Professionals
- Sport Ministry
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)
- Theatre
- Women's Ministry
- Youth Ministry

## 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.

## Special Academic Programs

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

- Computer/Technology Teaching Endorsement
- Emergency Medical Technician Training
- Environmental Biology
- Honors
- Medical Technology
- One-Year Bible Certificate
- Preagriculture
- Premedical
- Prepharmacy
- Prephysical Therapy
- ROTC – Army and Air Force
- Study Abroad Programs
- TESOL – Teaching Endorsement (Teaching English to Speakers of Other Languages)

Descriptions of these programs are located in this section of the catalog or in the academic departments sponsoring the programs.

## Special Academic Programs

### Continuing Education

Cedarville University offers a variety of non-credit classes for lifelong learning through continuing education. Classes 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 fun.

Typical classes include Reading Rate and Comprehension, EMT-Basic, Beginning Chinese, American Sign Language, and Journey to Financial Freedom. Courses are periodically added to those listed. Exact course offerings are listed on the Web site at [www.cedarville.edu/academics/continuinged](http://www.cedarville.edu/academics/continuinged).

### Special Credit Granted for EMT Classes

The Cedarville University Emergency Medical Services (EMS) program was developed by the continuing education office 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. Classes are offered on campus each semester and during the summer. After students complete and obtain state EMT-basic certification, they will be qualified to provide emergent care in a pre-hospital setting to their level of certification. The program is based upon the National Standard Curriculum EMT Basic 1994, 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 three semester hours of elective credit for EMT basic training, two additional semester hours for EMT-intermediate training, and five semester hours for paramedic training.

### 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 education section of this catalog.

### Pre-professional Programs

Many students seek specialized training in professions after attending Cedarville University. A number of pre-professional programs are available. The preseminary curriculum, which prepares students for seminary studies and the gospel ministry, is outlined in the biblical education section of this catalog. The pre-law curriculum prepares students for law school and is explained in the social sciences and history section of this catalog. Pre-professional curricula in dentistry, medical technology, medicine, optometry, osteopathy, pharmacy, physical therapy, and veterinary medicine are described in the science and mathematics section of this catalog.

## 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. English and Mathematics Proficiency ..... 0-5 hrs

Each student upon initial enrollment at the University must demonstrate proficiency in English and mathematics. Proficiency examinations should be taken before the end of the first semester of matriculation.

#### A. English (0-3)

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 500\* or higher on the verbal section of the recentered SAT; or
- Score 53 or higher on the CLEP English Composition Examination; or
- Score 25 or higher on the Cedarville University English Proficiency Examination; or
- Complete a course equivalent to Cedarville University ENG-1000 Basic English 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
- If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through a successful completion of the course ENG-1000 Basic English (three semester hours), **which is to be taken during the first semester of matriculation. These three credits do 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 500\* or higher on the quantitative section of the recentered SAT; or
- Score 53 or higher on the CLEP College Algebra exam; 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
- 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

- 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.**

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

### II. Biblical Education .....16 hrs

- A. BEGE-1710 Christian Life and Thought ..... 3
- B. BEGE-1720 Spiritual Formation ..... 3
- C. BEGE-2730 Old Testament Literature ..... 3
- D. BEGE-2740 New Testament Literature..... 3
- E. BEGE-3750 Christian Worldview Development..... 2
- F. BEGE-3760 Christian Worldview Integration..... 2

### III. Communication .....6 hrs

- A. ENG-1400 Composition ..... 3
- B. COM-1100 Fundamentals of Speech ..... 3

### IV. Humanities .....9 hrs

- A. HUM-1400 Introduction to the Humanities..... 3
- B. Any 2000-level literature course ..... 3
- C. At least 3 semester hours from the following:..... \*\*3
  - \*ANTH-1800 Cultural Anthropology ..... 3
  - ART-1100 Introduction to Art..... 3
  - BEPH-2200 Introduction to Philosophy..... 3
  - BEPH-2250 Ethics ..... 3
  - BEPH-2260 Religion and Culture ..... 3
  - COM-2300 Voices of Diversity ..... 3
  - COM-3140 Intercultural Communication..... 3
  - COM-4110 History of Public Address..... 3
  - EDUC-2400 Children's Literature ..... 2
  - EDUC-4500 Philosophy of Education ..... 2
  - EGGN-3110 Professional Ethics..... 3
  - HLMU-2310 Introduction to Music Literature ..... 3
  - HUM-2430 Enjoyment of Music ..... 3
  - NSG-3050 Nursing in Relationships ..... 6
  - PYCH-3720 Psychology of Personality..... 3
  - THTR-1410 Introduction to Theatre ..... 3
  - Any second year foreign language course..... 4
  - Any other 3 hour literature course..... 3

\*\*In satisfying requirements B and C, students may not take more than one course from their major field of study. Education majors, however, may take EDUC-2400 Children's Literature and EDUC-4500 Philosophy of Education to fulfill criterion C; otherwise, EDUC-4500 Philosophy of Education does not count toward meeting this requirement.

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

## V. 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:
  - 1. 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.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
  - BEPH-2260 Religion and Culture
  - BUS-2910 International Business
  - COM-2300 Voices of Diversity
  - COM-3140 Intercultural Communication
  - ECON-3380 Economic Development and Political Economy
  - GEO-3520 World Regional Geography-East
  - HIST-3080 History of Russia & the Soviet Union
  - HIST-3200 History and Politics of Latin America
  - HIST-3210 History and Politics of Asia
  - HIST-3220 History and Politics of the Middle East
  - HIST-3230 History and Politics of Western Europe
  - HIST-3240 History and Politics of Eastern Europe
  - HIST-3250 History and Politics of Central and South Asia
  - HIST-3540 History and Politics of Africa
  - HIST-3750 Social Movements
  - HLMU-3400 Global Music
  - INTL-3190 Global Issues
  - INTL-3650 International Relations
  - MGMT-3570 International Management
  - MRKT-4620 International Marketing
  - NSG-3090 Public Health Nursing
  - NSG-4200 Culture and Health
  - PYCH-1800 Cross-Cultural Psychology
  - SPAN-3680 Understanding Hispanic Cultures; or
- E. 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.

## VI. Physical Education .....2 hrs

- A. PEF-1990 Physical Activity and the Christian Life ..... 1
- B. One general physical education activity course chosen from PEA-1000 through PEA-2120..... 1

## VII. Science and Mathematics ..... 10-16 hrs

- A. One laboratory course from the biological sciences ..... 3.5
- B. One laboratory course from the physical sciences ..... 3.5
- C. At least three semester hours selected from the following quantitative courses:
  - BUS-2110, 2120 Statistics ..... 4
  - EDUC-2800 Principles of Mathematics II..... 3
  - GMTH-1010 Introduction to Mathematics..... 3
  - GMTH-1020 College Algebra..... 3
  - GMTH-1030 Pre-calculus ..... 4
  - GMTH-1040 Calculus for Business..... 4
  - GSS-3630 Data Analysis and Research Methodology ..... 4 (or SWK-3610 Data Analysis ..... 3)
  - PYCH-2610 Statistics ..... 3
  - Any 3 credit MATH course ..... 3
- D. Students pursuing Bachelor of Science degrees (B.S., 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..... 3
  - MIS-2300 Introduction to Programming ..... 3

## VIII. Social Sciences and History .....9 hrs

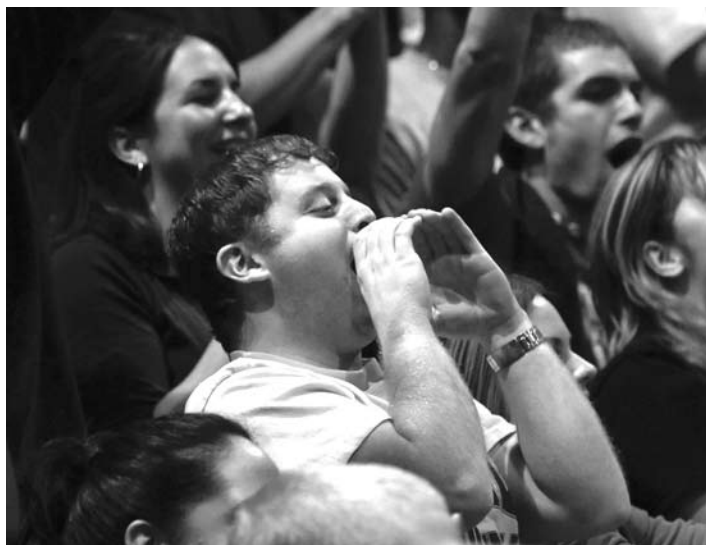
- A. GSS-1100 Politics and American Culture ..... 3
- B. One course in history ..... 3
- C. One course selected from the following:..... 3
  - A second HIST course or
  - Any course with a designator of ANTH\*, CRJU, GEO, INTL, POLS, PUAD, SOC, and SWK or PSYCH-1600 General Psychology

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

## Total General Education Requirements ..... 52-63

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





Students show their support and demonstrate school spirit by attending the lively Cedarville basketball games.

## 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 six courses must be completed before the beginning of the junior year or before a student earns 61 semester hours:**

- BEGE-1710 Christian Life and Thought
- BEGE-1720 Spiritual Formation
- COM-1100 Fundamentals of Speech
- ENG-1400 Composition
- PEF-1990 Physical Activity and the Christian Life
- The VII, C. Quantitative Course Requirement

### Graduation

All students must realize that it is their own 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 faculty 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 1st 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 over 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.

### 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 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.

### Sessions and Credits

The regular college 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.

### Academic 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 8th 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 or by the academic vice president 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 chairperson approval:

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

The following students require dean approval:

- Any student whose department chair is not available

#### To request 22 or more credit hours

- All students require approval of advisor, department chairperson, and dean

The following situation requires academic vice president approval:

- When dean is not available

### 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. **Special students** are those who are 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. **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
Sophomore	31-60
Junior	61-90
Senior	91+
Special	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.

## 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.
2. Students must obtain approval from the department chairperson, the faculty member teaching the class, 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, department chairperson, and advisor.

## Correspondence Study/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 mediated/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.

## 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 chairperson for details.

## 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:

1. Only one independent study project may be undertaken in an academic term, unless permission is granted from the department chairperson and dean of the student's primary major.
2. The maximum credit that may be earned for an independent study project is three semester hours.
3. The faculty member supervising the independent study, the student's advisor, and the department chairperson 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.
4. 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 department chairperson and the dean of the supervising faculty member.
5. Supervising an independent study is a privilege a faculty member may extend to a student. It is not a right that a student has.
6. Supervising faculty members determine the grade (letter grade or credit/no credit) for the independent study.

## Testing Out Procedure

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 course test-out form from the office of the registrar, obtain the approval of the chairperson of the department in which the course is offered, and contact the instructor of the course to schedule the test.

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.

Upon testing out of a course, a student must pay one-half tuition for the course credit. Credit for the course and a designation of test-out will appear on the student's transcript with a grade of CE (credit by examination). This grade is not computed into the cumulative grade point average. 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.

## Academic Support Services

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.

### Academic Enrichment Program

The University offers a supplemental academic assistance program to serve students whose academic backgrounds do not reflect their collegiate academic potential. Components of this program include an orientation course entitled COLL-1000 Transitions, special advising, tutoring when necessary, and in some cases, diagnostic testing. Admission to the academic enrichment program is determined by the admissions committee. Students selected for this program usually take a typical freshman course of study comprised of general education requirements.

Students who complete the program find that this assistance during the first year of college helps them establish an excellent foundation for academic success in the future. A complete description of this program is available from the admissions office.

### Students with Disabilities

Reasonable and appropriate adjustments or modifications are implemented for students with disabilities to ensure equal access and the opportunity to achieve educational objectives. Students with qualified disabilities seeking assistance at the post-secondary level must “self identify” in a timely fashion to the coordinator of disability services. Accommodations are determined on a case-by-case basis with the provision of documentation from a qualified professional. For additional information, contact the coordinator of disability services.

### Tutoring

Tutoring is available to students desiring supplemental learning opportunities through a certified tutoring program offered by the academic assistance center. The center provides one-on-one tutoring, as well as free group sessions through the Student Government Association. Sessions include the following courses: GMTH-1040 Calculus for Business, CHEM-1000 Principles of Chemistry, BIO-1000 Principles of Biology, GSS-1100 Politics and American Culture, and other classes as needed. Faculty assistance is available for all courses during office hours. The University encourages scholarship and academic success.

### 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 chairperson 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.

## Travel Study Opportunities

Students are encouraged to take advantage of a semester at one of Cedarville’s satellite campuses. Participants remain enrolled at Cedarville, continue to receive financial aid, and take classes for Cedarville credit. Programs are mainly open to juniors and seniors. Advanced planning is highly recommended. For additional information and help with planning, contact Cedarville University’s travel study director. Application procedures and program details are also listed at [www.cedarville.edu/academics/travelstudy](http://www.cedarville.edu/academics/travelstudy).

### ARRIBA

ARRIBA, Academic Residency and Research Internship for Baptists Abroad, is a work/study program sponsored by Faith Baptist Bible College in Ankeny, Iowa, in cooperation with Baptist Mid-Missions. Cedarville students in any major may earn up to 30 semester hours of credit in Spanish, sociology, biology, religion, missions, cross-cultural studies, and general electives. Students involved in the program spend 11 months in Peru, South America, where classroom theory is integrated with practical application and experience in cultural studies, church planting, and alpine and rainforest studies, under the direction of experienced missionaries and college professors. Students interested in the program should contact Dr. John Silvius for additional information.

### Au Sable Institute of Environmental Studies

Students enrolled in the environmental biology curriculum may take advantage of courses offered by the Au Sable Institute, including field botany, land resources, limnology, marine biology, animal ecology, and restoration ecology. Students may choose to attend any of five Au Sable Institute locations: Au Sable Great Lakes (Mancelona, Michigan), Au Sable Pacific Rim (Whidbey Island, Washington), Au Sable East (Chesapeake Bay, Virginia), Au Sable Africa (Nairobi, Kenya), 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. Qualified students are awarded the Au Sable Fellowship that normally provides 50% of tuition cost. One or more Institute Grants-in-Aid of at least \$400 are also available each year. Honors scholarships of \$500 and Au Sable stewardship awards equal to the cost of room and board are granted to returning students. Interested students should contact Dr. John Silvius, Cedarville University's Au Sable Institute representative.

## CCTECC Student Teaching Abroad Program

CCTECC is the Christian Coalition Teacher Education Coordinating Council, which is made up of Christian colleges from around the U.S. Since the late 1980s, this organization has been helping its member institutions place quality student teachers in quality schools on every continent except Antarctica. Cedarville students have taught in over 20 different countries. Literally speaking, the sun never sets on Cedarville student teachers.

Students apply for this program early in their junior year. Only those with a good academic record, strong character, and spiritual and professional performance references are allowed to go overseas. Only schools and cooperating teachers who meet Cedarville's standards and the requirements of the Ohio Department of Education participate with us. CCTECC helps ensure that students are placed in environments that are safe and nurturing both personally and spiritually.

## CIEE (Council on International Educational Exchange)

CIEE offers study abroad opportunities in 29 countries around the world. They provide curricula specifically designed with the U.S. undergraduate in mind. Students interested in CIEE programs should contact the Travel Study Office.

## The Council for Christian Colleges and Universities (CCCU) Study Programs

Cedarville University participates with the CCCU in offering programs for students in the places listed below. Students interested in any program should contact the travel study office for more information.

- American Studies Program (Washington, D.C.)
- Australia Studies Centre
- China Studies Program
- Contemporary Music Program (Martha's Vineyard)
- Latin American Studies Program
- Los Angeles Film Studies Center
- Middle East Studies Program (Egypt)
- Oxford Honors Program and Oxford Summer Program
- Russian Studies Program
- Scholars' Semester in Oxford
- Summer Institute of Journalism (Washington, D.C.)
- Uganda Studies Program

## Additional Travel Studies Programs

Cedarville has cooperating agreements with the following programs. Applications must be processed through the travel study office.

- Focus on the Family Institute
- IBEX (The Master's College)
- ISEPS (Seville, Spain)
- JUC (Jerusalem University College)
- OSAP (Oxford Study Abroad Program)
- Dublin, Ireland
- Central College Abroad (several countries)
- Brethren Colleges Abroad (several countries)

## IBI – International Business Institute

The International Business Institute is a cooperative overseas program in international economics and business management. This 10 week program takes place in key locations in the major political and economic centers of Scandinavia, Russia, Eastern Europe, Western Europe, and the United Kingdom. It is only open to students during the summer after completing their junior year. Currently students receive credit for the following Cedarville courses: ECON-3350, ECON-3360, MRKT-4620, and MGMT-3570.

## Summer Terms

The University offers two three-week summer terms. One is in May, and one begins in June. Students can earn up to six credits in either session.

The summer sessions appeal to a variety of students. Some wish to accelerate their college program. 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.

High school students who have completed their junior year and who display sufficient academic strength may enroll in the summer studies program. Eligible children of graduates of the University may qualify for the popular alumni children scholarship program that provides reduced-tuition credit.

Continuing students interested in attending summer school should contact the summer school office. New students should contact the admissions office. Visit [www.cedarville.edu/academics/summerschool](http://www.cedarville.edu/academics/summerschool).

## Registration for Classes

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.



*The beautiful 400-acre campus of Cedarville University offers many quiet places to study.*

# Academic Information

Registration information, including printed registration instructions and course schedules for the semester, is distributed by the office of the registrar prior to the respective registration periods. Additionally, registration information, including available course offerings and sections, is available on the University Web site.

Prior to processing a registration, each student meets 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 online registration process on the University Web site. The 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 online registration program are available on the registrar Web page or from the office of the registrar.

A registration access code is required to complete the online registration process. This code is assigned by the computer services office prior to each registration period and is given to the student's academic advisor. The registration access code may be utilized by the academic advisor to complete the student's registration during the advising process, or the advisor may give the code to the student to enable the student to complete the registration process from another computer. 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).

## 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 classes may be added after this time unless approval is granted from the course instructor, chairperson of the department that offers the course, and the dean of the respective school. In the absence of the dean, the academic vice president may approve a late registration. A late registration fee of \$50.00 will be charged to process a registration or add a class after the deadline.

Changes in a student's course schedule must be made through the drop/add process. This may be completed online within seven calendar days after classes 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:

<b>Week Course Is Dropped</b>	<b>Action</b>
Before the end of the 1st full calendar week	No record on transcript
During 2nd full calendar week through 9th calendar week	W – Withdrawn
10th and 11th calendar weeks	WP – Withdrawn Passing or WF – Withdrawn Failing
Week 12 through the end of the semester	Drops not permitted

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 class 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 Web page.

## 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 week of the semester. Courses may be changed from audit to credit, with permission of the instructor, before the end of the first week of the semester. A student may not test out of a course already audited. Registration to audit a class will not be processed until the first day of the semester to accommodate students requiring regular registration status.



## 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 Business Office at least three days prior to withdrawal. A student's ID card and dorm 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.)

## 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. To retain these course selections and confirm the intention to enroll in the fall semester, each student must submit a reservation deposit of \$250 by May 1. This deposit also reserves a place in college housing for single students under 25 years of age. The deposit is credited to the student's account and may be used to help cover Fall Semester expenses. Should the student decide to withdraw from the University before July 1, \$150 of this deposit is refundable. After July 1, the \$250 deposit is nonrefundable.

A student who does not register and submit the continuing student reservation deposit by June 1 or make other special arrangements with the student life office 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 the admissions office.

## 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%
- 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 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 academic vice president. 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.

## Course Numbers and Designations

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

1. The first number indicates the year in which the course is usually taken. Freshmen 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. Courses beyond the student's classification should be taken with the consent of the instructor and academic advisor.
2. The alphabetical prefixes in the course designations indicate content divisions within academic departments. For example, the prefix "BETH" indicates that the course is a theology course in the department of biblical education.

The semester that the course is offered is shown 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: 2006-07 is an even year.



## 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** Credit has been granted; it also applies to the credit/no credit program in which credit is received for satisfactory ("C" average or above) 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 grade point averages.
- CE** Credit for the course has been earned by an examination administered by the University or another recognized testing agency or program.
- I** 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 grade point average. 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 grade point average.
- INC** Indicates a permanent incomplete, a grade assigned in special situations by the faculty member with the approval of the academic vice president. This permanent grade does not influence the student's grade point average. 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 grade point average.
- NC** No credit has been earned. Credit hours for which an "NC" has been earned are not used in the computation of grade point averages.
- 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 tenth and eleventh weeks of the semester.
- WF** Used during the tenth and eleventh 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 grade point average.



## Grade Points and Point Averages

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

Grade	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

The grade point average 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 his or her academic achievement with his or her instructor.

## Academic Progress, Warning, and Suspension

To satisfy the minimum graduation requirements, a student must earn a cumulative grade point average of 2.0. The minimum cumulative grade point average 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 grade point average required for good standing and for graduation. To assist them, the following academic progress chart outlines the minimum cumulative grade point averages 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	1.00	1.45
19-36	1.25	1.60
37-64	1.50	1.75
65-96	1.75	1.90
97-112	1.90	—
113-128	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. 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 grade point average 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 grade point average is not above 1.0 for two successive semesters and who is not making satisfactory academic progress is subject to suspension. The dean of a school 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 students who earn an unsatisfactory grade as a freshman (student with fewer than 31 credits) may repeat the course at Cedarville University before the end of their sophomore year (student with 31 to 60 credits). Under this freshman repeat policy, the cumulative grade point average will be recalculated using the second grade instead of the first.



Cedarville graduates rank chapel as one of their college highlights.

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 grade point average 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 grade point average, 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 grade point average. However, credit hours for a repeated course may count only once toward the credits needed for graduation.

## 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 grade point averages.

The following guidelines govern involvement in the program:

1. 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.
  2. To earn credit, a student must maintain an average of "C" or better in the course.
  3. 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.
  4. A student may take just one elective course per term under the credit/no credit designation.
  5. 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 grade point average:

2.0-2.49	one course
2.5-2.99	two courses
3.0-3.49	four courses
3.5 and above	six courses
  6. 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.
  7. 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.
3. 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.
  4. A student must complete every course being taken by the end of the semester when grades are turned in by the faculty.

## The 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.
2. 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.
3. 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 grade point average of at least 3.5 will graduate "with honor"; one who earns a grade point average of at least 3.75 will graduate "with high honor"; and one who earns a grade point average of at least 3.9 will graduate "with highest honor." 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 grade point average 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.

See the financial aid section of this catalog for a list of additional academic awards.

## Family 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 office.

# Academic Honors

## The 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 grade point average or higher for the semester.
2. A student must have no grade for the semester lower than a "B."



## School of Engineering, Nursing, and Science

*Dean:* Stanley Baczek, Professor of Polymer Science and Engineering.

*Education:* B.S., Southeastern Massachusetts, 1969; M.S., University of Massachusetts-Amherst, 1975; Ph.D., University of Massachusetts-Amherst, 1977. At Cedarville since 2003.

Departments:

- Engineering and Computer Science
- Nursing
- Science and Mathematics



## School of Health and Human Performance

*Dean:* Pamela Diehl Johnson, Senior Professor of Physical Education.

*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.

Departments:

- Athletic Facilities
- Athletic Training
- Campus Recreation
- Exercise and Sport Science
- Intercollegiate Athletics



## School of Humanities, Fine Arts, and Bible

*Interim Dean:* Jack Riggs, Senior Professor 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; post doctoral study, Jerusalem University College (Jerusalem, Israel), 1987. At Cedarville since 1967.

Departments:

- Biblical Education
- Communication Arts
- Language and Literature
- Music and Art



## School of Social Sciences and Professional Studies

*Dean:* Kevin Sims, 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.

Departments:

- Business Administration
- Education
- Psychology
- Social Science and History

## Mission Statement

The Mission of the Cedarville University Athletic Training Education Program (ATEP) is to advance the kingdom of the Lord Jesus Christ by equipping godly men and women to be competent certified athletic trainers for excellence in service to Christ in strategic fields of Christian ministry.

This is to be accomplished through an educational program that practices the skills associated with the prevention, management, and rehabilitation of injuries and illnesses associated with the physically active.

It is to be carried out in an environment of spiritual fellowship and relationships that emphasizes unreserved commitment to the worship of God, submission to the authority of the Scriptures, a life of personal holiness, the priority of the local church, and the mission of penetrating the world with the Truth.

Objectives of the athletic training education program:

- Provide an education that is current in content
- Develop clinicians who are professional in practice
- Encourage students to be spiritually sensitive
- Train students to demonstrate superior skill
- Develop students who are trained in technology
- Foster an excellent work ethic

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 all three portions of 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 greater 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 Cedarville University Athletic Training Education Program depends on the varsity athletics program at CU 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. An annual one and a half-mile run is used to evaluate the status of the student's fitness.



*The athletic training major prepares students for careers as certified athletic trainers with an emphasis on using athletic training as an opportunity for ministry in a variety of settings.*



## Department 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 grade point average of 2.5 or better
2. Completion of college-level biology and chemistry courses with a grade of "C-" or better
3. Completion of college-level first aid and basic athletic training courses with a grade of "B-" or better
4. 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
7. Signed acceptance of technical standards, available at [www.cedarville.edu/athletictraining](http://www.cedarville.edu/athletictraining)
8. Current certification in cardiopulmonary resuscitation (CPR) including AED

Retention criteria include:

1. Earning a grade of "C-" or better in all athletic training courses
2. Maintaining a cumulative grade point average of 2.25
3. Maintaining current CPR certification
4. Successfully completing clinical proficiencies established for each term
5. Positive recommendation by the faculty/clinical instructors of the ATEP

Graduation requirements include:

1. Earning a grade of "C-" or better in all athletic training courses
2. Member of the NATA
3. Successful completion of all clinical proficiencies
4. Applying for the BOC certification exam
5. 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.

## Faculty

**Evan Hellwig**, *Chairman*. Associate 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, 1992-present.

**Christopher Cross**, Assistant Professor of Athletic Training. Head athletic trainer (BOC). *Education*: B.S., Alderson-Broadbudd; M.S., West Virginia University. At Cedarville since 2004.

**Robert Duchardt**, Assistant Professor of Athletic Training. Certified athletic trainer (BOC). *Education*: B.S., Taylor University, 1965; M.S., Union College, 1973; graduate study, West Chester State College, 1977. At Cedarville since 1989.



*The Cedarville University Athletic Training program practices the skills associated with the prevention, recognition, management, and rehabilitation of injuries and illnesses that are associated with the physically active.*

### 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 varsity practice and game times in order to fulfill the clinical education requirements. Freshmen will need to accumulate at least 150 hours in order to be eligible for admission into the ATEP. Sophomores will be scheduled to work (approximately 8-10 hours per week) with every team each semester on a rotation basis to expose them to all aspects of collegiate athletic training services. The junior and senior years are devoted to completing extensive clinical assignments, including assisting a certified athletic trainer with a lower extremity sport, an upper extremity sport, an equipment intensive sport (football), and a general medical clinical education rotation. Upperclassmen can anticipate working 12-18 hours per week. Therefore, students majoring in athletic training are not encouraged to participate in intercollegiate athletics.

Course Requirements involve 67.5 semester hours including:

ATRN-1550 Basic Athletic Training	5
ATRN-2560 Lower Body Injury Management	5
ATRN-2570 Upper Body Injury Management	5
ATRN-2650 Therapeutic Exercise for Athletic Injuries	2
ATRN-2900 Sports Medicine Clinic	0
ATRN-3550 Organization and Administration in Athletic Training	2
ATRN-3660 Modalities in Athletic Training	3
ATRN-3920 Supervised Experience in Athletic Training—Upper Body	2
ATRN-3930 Supervised Experience in Athletic Training—Lower Body	2
ATRN-4560 Medical Aspects of Athletic Training	2
ATRN-4610 Issues in Athletic Training	1
ATRN-4910 Supervised Experience in Athletic Training—ATF	2
ATRN-4940 Supervised Experience in Athletic Training—Football	2
BIO-1000 Principles of Biology	3.5
BIO-2010 Human Anatomy and Physiology	4
CHEM-1000 Principles of Chemistry	5
ESS-1400 First Aid and Safety Education	2
ESS-3800 Sport Psychology	2
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	2
*ESS-4600 Research in Athletic Training and Exercise Science	2
MAHE-1000 Introduction to the Health Profession	1
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3100 Drug Education	3
MAHE-3500 Community Health Concepts	2
PYCH-1600 General Psychology	3

\*Capstone Course

### Athletic Training Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	42-50
Athletic Training Major Requirements	67.5
Electives	11-19
<b>Total (minimum, not including proficiency)</b>	<b>128.5</b>

### Suggested Four-Year Curriculum for a Major in Athletic Training

#### First year:

ATRN-1550 Basic Athletic Training	5
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
BIO-1000 Principles of Biology	3.5
CHEM-1000 Principles of Chemistry	5
ENG-1400 Composition	3
ESS-1400 First Aid and Safety Education	2
GMTH-1020 College Algebra	3
MAHE-1000 Introduction to the Health Profession	1
PEF-1990 Physical Activity and the Christian Life	1
PYCH-1600 General Psychology	3
<b>Total</b>	<b>32.5</b>

#### Summer:

ATRN-2900 Sports Medicine Clinic	0
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#### Second year:

ATRN-2560 Lower Body Injury Management	5
ATRN-2570 Upper Body Injury Management	5
ATRN-2650 Therapeutic Exercise for Athletic Injuries	2
BEGE-2730 Old Testament Literature	3
BIO-2010 Human Anatomy and Physiology	4
COM-1100 Fundamentals of Speech	3
ESS-3900 Physiology of Exercise	3
GSS-1100 Politics and American Culture	3
Physical Education Activity Elective	1
Electives	3
<b>Total</b>	<b>32</b>

#### Third year:

ATRN-3550 Organization and Administration in Athletic Training	2
ATRN-3660 Modalities in Athletic Training	3
ATRN-3920 Supervised Experience in Athletic Training—Upper Body	2
ATRN-3930 Supervised Experience in Athletic Training—Lower Body	2
BEGE-2740 New Testament Literature	3
ESS-4600 Research in Athletic Training and Exercise Science	2
HUM-1400 Introduction to the Humanities	3
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3100 Drug Education	3
MAHE-3500 Community Health Concepts	2
Literature Elective	3
Electives	5
<b>Total</b>	<b>32</b>

#### Fourth year:

ATRN-4560 Medical Aspects of Athletic Training	2
ATRN-4610 Issues in Athletic Training	1
ATRN-4910 Supervised Experience in Athletic Training—ATF	2
ATRN-4940 Supervised Experience in Athletic Training—Football	2
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ESS-3800 Sport Psychology	2
ESS-3920 Biomechanics	2
History Elective	3
Humanities/Global Awareness Elective	3
Electives	11
<b>Total</b>	<b>32</b>

**Athletic Training****ATRN-1550 Basic Athletic Training–Sp 5 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. (Fee: \$50)

**ATRN-2560 Lower Body Injury Management–Fa 5 hours**

Comprehensive evaluation, management, and initial rehabilitation of athletic injuries involving the lower portion of the human body. *Prerequisites:* ATRN-1550 Basic Athletic Training; BIO-2010 Human Anatomy and Physiology. (Fee: \$35)

**ATRN-2570 Upper Body Injury Management–Sp 5 hours**

Comprehensive evaluation, management, and initial rehabilitation of athletic injuries involving the upper portion of the human body. *Prerequisites:* ATRN-1550 Basic Athletic Training; BIO-2010 Human Anatomy and Physiology. (Fee: \$35)

**ATRN-2650 2 hours****Therapeutic Exercise for Athletic Injuries–Sp**

Management of athletic injuries from the subacute phase through return to participation. Based on principles of biomechanics with emphasis on strength, flexibility, proprioception, endurance, and agility.

**ATRN-2900 Sports Medicine Clinic–Fa,Sp 0 hours**

Designed to expose the student to the sports medicine clinic. Students will spend a minimum of 25 hours in an appropriate sports medicine clinic to view first hand the role of the certified athletic trainer in this employment setting. *Prerequisites:* ATRN-1550 Basic Athletic Training; permission from the director of athletic training. Credit/no credit.

**ATRN-3550 2 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, record-keeping, and legal aspects of athletic training.

**ATRN-3660 Modalities in Athletic Training–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-3920 2 hours****Supervised Experience in Athletic Training–Upper Body–Sp**

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 an approved clinical instructor and assist the athletic training staff in providing services. *Prerequisites:* ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management.

**ATRN-3930 2 hours****Supervised Experience in Athletic Training–Lower Body–Fa**

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 an approved clinical instructor and assist the athletic training staff in providing services. *Prerequisites:* ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management.

**ATRN-4560 Medical Aspects of Athletic Training–Fa 2 hours**

Focuses on medical issues related to athletic training, including but not limited to conditions of the cardiovascular, respiratory, digestive, and urinary systems.

**ATRN-4610 Issues in Athletic Training–Sp 1 hour**

A study of the current significant issues in athletic training with an emphasis on legal/ethical issues and professional development.

**ATRN-4850 1-3 hours****Independent Study in Athletic Training–Fa,Sp**

An independent study in athletic training by students pursuing the athletic training major. *Departmental approval is required.*

**ATRN-4910 2 hours****Supervised Experience in Athletic Training–Athletic Training Facilities–Sp**

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 an approved clinical instructor and assist the athletic training staff in providing services. *Prerequisites:* ATRN-3920 Supervised Experience in Athletic Training–Upper Body; ATRN-3930 Supervised Experience in Athletic Training–Lower Body

**ATRN-4940 2 hours****Supervised Experience in Athletic Training–Football–Fa**

Students will spend at least 200 hours working with a certified athletic trainer during preseason and regular season football. Assignment may be at the collegiate or high school level. Students are responsible for their own transportation. Assignments begin in early to mid-August. Students will also meet on campus weekly to demonstrate mastery of clinical proficiencies associated with equipment intensive sports and collision trauma. *Prerequisites:* ATRN-3920 SEAT-Upper Body; ATRN-3930 SEAT-Lower Body. (Fee: \$35)



Students gain experience by applying their athletic training knowledge to real-life injury.

## 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 men and women who have found life doing the same. So it is the mission of the department of biblical education 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 department, we are privileged to carry out this commission on two levels. First, we are engaged in training men and women professionally and academically. Professionally, we want to equip graduates for full-time ministry in the church by preparing men and women with a theologically informed philosophy of ministry accompanied by the skills and experience needed to actualize it in the church. Majors that particularly facilitate this are Christian education, youth ministries, pastoral studies, world missions, and international studies-missiology. Academically, we want to inspire men and women to use their minds for the glory of God. We want to raise up a generation of scholars whose desire is to bring every thought into submission to Christ for the glory of God. Majors geared toward this purpose are comprehensive Bible, pre-seminary Bible, and philosophy.

Second, we 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, philosophically defensible, and life-transforming view of life under God.

## Personal Requirements

Students planning to pursue careers in vocational ministries should possess a commitment 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 education majors find the opportunities provided by the Christian ministries program to be excellent avenues for applying truths learned in the classroom and developing necessary skills for effective ministry.

## Department Requirements

To graduate with a major from the department of biblical education, students must earn a cumulative average of 2.0 or above and a “C-” or above in all courses included in the major with the exception of Greek.

## Programs of Study

The department of biblical education offers the following programs:

### Majors

- Bible Teacher Education
- Christian Education
- Comprehensive Bible
- International Studies-Missiology
- Pastoral Studies
- Philosophy
- Preseminary Bible
- Youth Ministries

### Minors

- Bible
- Christian Education
- Greek
- Missions
- Philosophy and Religion
- Preseminary
- Women’s Ministry
- Youth Ministries

### Special Program

- One-Year Bible Certificate

## Technical Resources

- Concordance and Bible study software (Logos Series-X Scholar’s Edition)
- Greek and Hebrew tutorial software
- 3-D interactive satellite atlas software of the land of Israel
- Textbook-specific software
- Course-specific software

## Co-Curricular 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:

### Chi Delta Nu

Chi Delta Nu encourages students going into youth ministry through prayer, fellowship, and service.

### Timilathians

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

## Career Opportunities

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

- Bible teacher
- Camp director
- Christian education director
- Missionary
- Pastor
- Philosopher
- Writer
- Youth pastor



There are approximately 50 student-led small group Bible studies on campus.

## Faculty

**Thomas Cragoe**, *Chairman*: Associate Professor of Bible. *Education*: A.B., Wheaton College, 1979; Th.M., Dallas Theological Seminary, 1983; Th.D., Dallas Theological Seminary, 1987. At Cedarville since 2001.

**James Bjornstad**, Professor of Philosophy. *Education*: B.A., Northeastern Bible College, 1967; Th.B., Northeastern Bible College, 1967; M.R.E., New York Theological Seminary, 1969; graduate work, New York University. At Cedarville since 1995.

**Richard Blumenstock**, Associate Professor of Bible. *Education*: B.A., Cedarville University, 1963; Th.M., Dallas Theological Seminary, 1967; D.Min., Western Conservative Baptist Seminary, 1993. At Cedarville since 1990.

**William Brown**, President; Professor of Bible. *Education*: B.A., University of South Florida, 1975; Th.M., Dallas Theological Seminary, 1981; Ph.D., Dallas Theological Seminary, 1984. At Cedarville since 2003.

**Jeffrey Cook**, Associate Professor of Bible. *Education*: B.A., Cedarville University, 1981; M.A., Grace Theological Seminary, 1983; M.Div., Tyndale Theological Seminary (the Netherlands), 1991; D.Min., Trinity Evangelical Divinity School, 1997. At Cedarville since 1998.

**Gregory Couser**, 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.

**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.

**David Drullinger**, Professor of Bible. *Education*: B.S., Western Baptist College, 1967; B.D., San Francisco Baptist Seminary, 1971; Th.M., Western Conservative Baptist Seminary, 1975; D.Min., Western Conservative Baptist Seminary, 1980. At Cedarville since 1989.

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

**Joy Fagan**, Assistant Professor of Bible. *Education*: B.A., Cedarville College, 1989; M.R.E., Grand Rapids Baptist Seminary, 1999; Ed. D. Southern Seminary, 2005. At Cedarville since 1994.

**Timothy Gombis**, Assistant Professor of Bible. *Education*: B.S., Liberty University, 1994; M.Div., The Master's Seminary, 1997; Th.M., The Master's Seminary, 2000; Ph.D., University of St. Andrews (Scotland), 2005. At Cedarville since 2004.

**Donald Grigorenko**, Assistant Professor of Bible. *Education*: B.S., The Ohio State University, 1977; Grad Certificate, Multnomah School of the Bible; Th.M., Dallas Theological Seminary, 1986; Ph.D., Trinity Evangelical Divinity School, 2004. At Cedarville since 2001.

**Amy-Hope Guisleman**, Assistant Professor of Philosophy. *Education*: A.A., Southeastern Bible College, 1994; B.A., Auburn University, 1996; M.A., The Ohio State University, 2000. At Cedarville since 2001.

**David Hoffeditz**, Associate Professor of Bible and Greek. *Education*: B.A., Cedarville University, 1992; Th.M., Dallas Theological Seminary, 1996; Ph.D., University of Aberdeen (Scotland), 2000. At Cedarville since 2000.

**Thomas Hutchison**, Associate 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.

**Stephen Janssen**, Assistant Professor of Bible. *Education*: B.A., Tennessee Temple University, 1979; Th.M., Dallas Theological Seminary, 1992. At Cedarville since 1999.

**David Mappes**, Associate Professor of Bible. *Education*: A.A., ITT Technical Institute, 1980; B.A., Ottawa University, 1986; M.Div., Western Conservative Baptist Seminary, 1989; Th.M., Western Conservative Baptist Seminary, 1990; Ph.D., Dallas Theological Seminary, 1995. At Cedarville since 1999.

**Chris Miller**, Professor of Bible. *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.

**Robert Milliman**, Academic Vice President; Professor of Bible. *Education*: B.S., Pillsbury Baptist Bible College, 1980; B.A., University of Minnesota, 1982; M. Div., Central Baptist Theological Seminary, 1984; Th.M., Central Baptist Theological Seminary, 1987; Ph.D., Trinity Evangelical Divinity School, 1997. At Cedarville since 2004.

**David Mills**, Associate Professor of Philosophy. *Education*: B.S., Cedarville University, 1992; Ph.D., The Pennsylvania State University, 2000. At Cedarville since 1994.

**Michael Parrott**, Assistant Professor of Bible. *Education*: B.S., California Polytechnic State University, 1974; M.Div., Western Conservative Baptist Seminary, 1981. At Cedarville since 2004.

**Jack Riggs**, Acting Dean, School of Humanities, Fine Arts, and Bible; Senior Professor 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; post-doctoral study, Institute of Holy Land Studies, (Jerusalem, Israel), 1987. At Cedarville since 1967.

**Michael Thigpen**, Assistant Professor of Bible. *Education*: B.A., University of North Carolina, 1991; M.Div., Columbia Biblical Seminary, 1994; M.Phil. and Ph.D. Candidate, Hebrew Union College. At Cedarville since 2003.

**Richard Durham**, Professor Emeritus of Bible and Greek. *Education*: A.B., Wheaton College, 1950; B.D., Faith Theological Seminary, 1953; S.T.M., Faith Theological Seminary, 1960; Th.D., Grace Theological Seminary, 1981. At Cedarville from 1976-1991.

**Jean Fisher**, Associate Professor Emerita of Church Education. *Education*: B.R.E., Baptist Bible Seminary, 1956; M.A., Wheaton College, 1961; graduate study, Southwestern Baptist Theological Seminary, summer 1965. At Cedarville from 1956-1991.

**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.

## Bible Teacher Education

The **Bible teacher education major** is designed for students anticipating teaching Bible primarily in a Christian school. The major provides a unique combination of content from Bible courses and pedagogy from education courses to manage a classroom and teach the Bible effectively. The Bible content portion of the program is modeled after the preseminary major with the exception of the requirement of Greek. Thus, a student could easily use this program as the foundation for further graduate study in seminary. This program would also lay the foundation for a person who, after having gained some experience in teaching, chooses to pursue a master's degree in education. The Association of Christian Schools International also approved Cedarville to offer ACSI certification in integrated bible for this major.

Course requirements involve 92-94 semester hours including:

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
<i>Bible Teacher Education Core</i> .....	40
BECE-2400 Interpreting and Teaching the Bible.....	6
BECE-3700 Campus Ministries.....	4
BECE-4100 Leadership of Christian Ed Ministries.....	3
BEDU-3110 Clinical Teaching in Bible.....	1
BENT-3110 Jesus and the Gospels.....	3
BENT-4110 Romans and Galatians.....	3
BEOT-3110 Pentateuch.....	3
BEOT-3150 Wisdom Literature.....	3
BEPH-2200 Introduction to Philosophy.....	3
BEPT-2400 Personal Evangelism.....	3
(or BEPT-3410 Discipleship.....)	3
BEST-4310 Hermeneutics.....	3
BEST-4910 Seminar in Bible.....	2
BETH-XXXX Theology Elective.....	3
<i>Professional Education Requirements</i> .....	36-38
EDSE-4100 Principles of Teaching-AYA.....	5
EDSE-4450 Clinical Teaching-AYA.....	3
*EDSE-4900 Student Teaching and Seminar-AYA.....	10-12
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDSP-4000 Principles of Inclusion.....	1
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian School.....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4000 Reading in the Content Area.....	3
(or ENG-3300 Developmental Reading.....)	3
EDUC-4500 Philosophy of Education.....	2

\*Capstone Course

### Bible Education Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	33-41
Bible Education Requirements.....	56
Education Requirements.....	36-38
Electives.....	0-3
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Bible Teacher Education

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	1
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PYCH-1600 General Psychology.....	3
Biology Elective.....	3.5
History/Global Awareness Elective.....	3
Literature Elective.....	3
<b>Total.....</b>	<b>32.5</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2200 Introduction to Philosophy.....	3
BEPT-2400 Personal Evangelism.....	3
EDUC-1050 Contemporary Christian School.....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
BETH-XXXX Theology Elective.....	3
Physical Education Elective.....	1
Physical Science Elective.....	3.5
<b>Total.....</b>	<b>30.5</b>

#### Third year:

BECE-2400 Interpreting and Teaching the Bible.....	6
BENT-3110 Jesus and the Gospels.....	3
BEOT-3110 Pentateuch.....	3
BEST-4310 Hermeneutics.....	3
EDSE-4100 Principles of Teaching-AYA.....	5
EDSE-4450 Clinical Teaching-AYA.....	3
EDUC-4000 Reading in the Content Area.....	3
EDSP-4000 Principles of Inclusion.....	1
Quantitative Elective.....	3
Elective.....	3
<b>Total.....</b>	<b>33</b>

#### Fourth year:

BECE-3700 Campus Ministries.....	4
BECE-4100 Leadership of Christian Ed Ministries.....	3
BEDU-3110 Clinical Teaching in Bible.....	1
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
BENT-4110 Romans and Galatians.....	3
BEOT-3150 Wisdom Literature.....	3
BEST-4910 Seminar in Bible.....	2
EDSE-4900 Student Teaching and Semniar-AYA.....	10-12
EDUC-4500 Philosophy of Education.....	2
<b>Total.....</b>	<b>32</b>

A complete description of the general education requirements is found on page 18

### Comprehensive Bible

The **comprehensive Bible major** prepares the person who, upon graduation, becomes a Bible teacher or worker in a church or other Christian organization.

Course requirements involve 60 semester hours including:

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration.....	2
<i>Comprehensive Bible Core</i> .....	44
BECE-4100 Leadership in Christian Educ. Ministries .....	3
BECE-XXXX Elective .....	3
BENT-XXXX New Testament Electives .....	6
BEOT-XXXX Old Testament Electives.....	6
BEPH-2200 Introduction to Philosophy .....	3
BEPH-XXXX Elective .....	3
BEPT-XXXX Practical Theology Electives.....	6
*BEST-4910 Seminar in Bible.....	2
BEST-XXXX Elective .....	3
BETH-XXXX Theology Electives .....	6
<i>Bible Electives</i> .....	3

#### Suggested Electives:

BEPT-3410 Discipleship .....	3
CHMU-2060 Music and the Arts in Worship .....	3
COM-3240 Interpersonal Communication .....	2
FIN-2730 Church Business Administration.....	3
MIS-1100 Introduction to Computers.....	1
PYCH-1600 General Psychology .....	3
SOC-2400 Marriage and the Family.....	3

\*Capstone Course

#### Comprehensive Bible Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	33-41
Comprehensive Bible Major Requirements .....	60
Electives .....	27-35
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

#### Suggested Four-Year Curriculum for a Major in Comprehensive Bible

##### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biology Elective.....	3.5
History/Global Awareness Elective .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>32</b>

##### Second year:

BECE-4100 Leadership in Christian Educ. Ministries.....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
New Testament Elective .....	3
Old Testament Elective .....	3
Physical Education Elective .....	1
Quantitative Elective .....	3
Social Science Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>31</b>

##### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BEPH-2200 Introduction to Philosophy.....	3
Bible Elective .....	3
Old Testament Elective .....	3
Philosophy Elective.....	3
Special Topics Elective .....	3
Theology Elective.....	3
Electives.....	11
<b>Total.....</b>	<b>33</b>

##### Fourth year:

BEST-4910 Seminar in Bible .....	2
Christian Education Elective .....	3
New Testament Elective.....	3
Practical Theology Elective.....	6
Theology Elective.....	3
Electives.....	15
<b>Total.....</b>	<b>32</b>

## Christian Education

The **Christian education major** prepares students for ministering to diverse age groups (children through adults) in vocational service in a wide range of Christian education ministry contexts: churches, camps, college campuses, parachurch organizations, crosscultural contexts, etc. It also provides a solid foundation for graduate studies in related areas. The required selection of a ministry concentration area and options in selection of a minor can be combined to equip students for unique, specialized areas of ministry.

Course requirements involve 75 semester hours including:

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration.....	2
<i>Christian Education Core</i> .....	53-55
BECE-1000 Orientation to Bible Ministries .....	1
BECE-2400 Interpreting and Teaching the Bible .....	6
BECE-3680 Children's Ministries .....	4
BECE-3700 Campus Ministries .....	4
BECE-3720 Adult Ministries .....	4
BECE-4100 Leadership of Christian Education Ministries .....	3
*BECE-4500 Internship in Christian Education .....	10-12
BENT-XXXX New Testament Elective .....	3
BEOT-XXXX Old Testament Elective .....	3
BEPH-XXXX Philosophy Elective (BEPH-2200 recommended) ....	3
BEPT-2400 Personal Evangelism .....	3
BEPT-3410 Discipleship .....	3
BETH-2350 Theological Foundations of Ministry .....	3
BETH-XXXX**Theology Elective (BETH-3330 recommended) ....	3
<i>Select one of the following ministry concentrations</i> .....	6
<i>Children's Ministries</i> .....	6
EDEC-2100 Art, Music, and Drama for Early Childhood....	2
EDSP-2500 Survey of Mental Retardation and Developmental Disabilities .....	1
EDUC-2400 Children's Literature .....	2
EDUC-3990 Independent Study Education .....	1
<i>Church Music Ministries</i> .....	6
CHMU-2060 Music and the Arts in Worship .....	3
<i>One course from the following</i> .....	3
CHMU-2600 Music of the Church.....	3
CHMU-3630 Administering Church Music I .....	3
CHMU-3640 Administering Church Music II .....	3
** <i>Cross-Cultural Ministries</i> .....	6
BEPT-3450 Contemporary World Missions .....	3
BEPT-3470 Cross-Cultural Ministry .....	3
BEPT-3510 Introduction to Urban Ministry.....	3
BEPT-4510 Advanced Urban Ministry.....	3
<i>Sports Ministries</i> .....	6
BECE-2100 Wilderness Ministry .....	3
CCHG-3670 Fundamentals of Coaching .....	3
ESSE-1350 Foundations of Sports Ministries.....	3
ESSE-2810 Introduction to Camping .....	2
ESSE-2830 Recreational Leadership .....	2
SMGT-3810 Organization and Administration of Sports and Athletics .....	3

<i>Women's Ministries</i> .....	6
BECE-3000 Women and Ministry .....	3
BECE-3500 Women's Communication for Ministry .....	3
COM-3150 Women in America .....	3

\*Capstone Course

\*\*Students who select the cross-cultural ministries concentration should take BETH-3400 as the theology elective.

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Christian Education

#### First year:

BECE-1000 Orientation to Bible Ministries .....	1
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biology Elective.....	3.5
History/Global Awareness Elective .....	3
Physical Science Elective .....	3.5
Social Science Elective.....	3
<b>Total</b> .....	<b>33</b>

#### Second year:

BECE-2400 Interpreting and Teaching the Bible .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BETH-2350 Theological Foundations of Ministry.....	3
Literature Elective .....	3
Ministry Concentration Electives.....	6
Philosophy Elective.....	3
Physical Education Elective .....	1
Quantitative Elective .....	3
<b>Total</b> .....	<b>31</b>

#### Third year:

BECE-3680 Children's Ministries .....	4
BECE-3700 Campus Ministries .....	4
BECE-3720 Adult Ministries.....	4
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BEPT-2400 Personal Evangelism.....	3
BEPT-3410 Discipleship .....	3
Minor Requirement or Electives.....	6
<b>Total</b> .....	<b>28</b>

#### Summer:

BECE-4500 Internship in Christian Education .....	10-12
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#### Fourth year:

BECE-4100 Leadership of Christian Education Ministries.....	3
New Testament Elective.....	3
Old Testament Elective .....	3
Theology Elective.....	3
Minor Requirement or Electives.....	12-14
<b>Total</b> .....	<b>24-26</b>

### Christian Education Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	33-41
Christian Education Major Requirements .....	75
Electives .....	12-20
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>



A complete description of the general education requirements is found on page 18

### Pastoral Studies

The **pastoral studies major** is designed to prepare the person who aspires to serve as a general associate pastor or a staff pastor prior to graduate studies or prior to serving as a senior pastor.

Course requirements involve 61 semester hours including:

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration.....	2
<i>Pastoral Studies Core</i> .....	45-47
BECE-4100 Leadership in Christian Educ. Ministries .....	3
BENT-XXXX New Testament Elective .....	3
BEOT-XXXX Old Testament Elective .....	3
BEPH-2200 Introduction to Philosophy .....	3
BEPT-2420 History of Mission.....	3
(or BEPT-3450 Contemporary World Missions .....	3)
BEPT-3420 Pastoral Ministry.....	2
BEPT-3430 Pastoral Counseling .....	3
BEPT-3500 Homiletics.....	3
*BEPT-4400 Pastoral Internship.....	10-12
BEPT-4560 Advanced Homiletics.....	3
BEST-XXXX Special Topics Elective .....	3
BETH-XXXX Theology Electives .....	6

#### *Suggested Electives:*

BEPT-3410 Discipleship .....	3
CHMU-2060 Music and the Arts in Worship .....	3
FIN-2730 Church Business Administration.....	3
MIS-1100 Introduction to Computers.....	1
PYCH-1600 General Psychology .....	3
PYCH-3660 Fundamentals of Counseling.....	3
PYCH-3670 Group Dynamics.....	3
SOC-2400 Marriage and the Family.....	3

\*Capstone Course

#### **Pastoral Studies Major Curriculum Summary**

Proficiency Requirements.....	0-5
General Education Requirements .....	33-41
Pastoral Studies Major Requirements .....	61
Electives .....	26-34
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

#### **Suggested Four-Year Curriculum for a Major in Pastoral Studies**

##### *First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	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 the Christian Life .....	1
Biology Elective.....	3.5
History Elective .....	3
Literature Elective .....	3
Physical Education Elective .....	1
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>33</b>

##### *Second year:*

BECE-4100 Leadership in Christian Educ. Ministries.....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2200 Introduction to Philosophy.....	3
BEPT-2420 History of Mission .....	3
Quantitative Elective .....	3
Social Science Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>30</b>

##### *Third year:*

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BEPT-3420 Pastoral Ministry .....	2
BEPT-3430 Pastoral Counseling .....	3
BEPT-3500 Homiletics .....	3
BEPT-4560 Advanced Homiletics .....	3
New Testament Elective.....	3
Old Testament Elective .....	3
Theology Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>33</b>

##### *Fourth year:*

BEPT-4400 Pastoral Internship .....	10-12
Special Topics Elective .....	3
Theology Elective.....	3
Electives.....	14-16
<b>Total.....</b>	<b>32</b>

## Philosophy

The **philosophy major** is designed primarily for students anticipating graduate study in philosophy, theology, religion, or law. It serves to develop intellectual abilities important for life as a whole, beyond the knowledge and skills required for any particular profession. It cultivates the capacities and appetite for self-expression and reflection, exchange and debate of ideas, lifelong learning, and dealing with problems for which there are no easy answers. Philosophy is applicable to any subject matter and any human context, making it an ideal undergraduate major for those going on to specialized graduate work. Candidates for graduate study should consult graduate school catalogs to determine specific undergraduate requirements and adjust their programs at Cedarville University accordingly.

Course requirements involve 43 semester hours including:

<i>Philosophy Core</i> .....	29
BEPH-2200 Introduction to Philosophy .....	3
BEPH-2240 Logic .....	3
BEPH-2250 Ethics .....	3
BEPH-2260 Religion and Culture .....	3
BEPH-3250 Philosophy of Religion .....	3
BEPH-3310 History of Ancient and Medieval Philosophy .....	3
BEPH-3320 History of Modern Philosophy .....	3
BEPH-3330 19th Century Philosophy .....	3
BEPH-3340 Current Philosophical Developments .....	3
*BEPH-4910 Seminar in Philosophy .....	2
<i>Philosophy Electives selected from the following</i> .....	14
BEPH-3240 Epistemology .....	3
BEPH-3260 Symbolic Logic .....	3
BEPH-3280 Metaphysics .....	3
BEPH-3400 Philosophy of Law and Economics .....	3
BEPH-4030 Philosophy and Literature .....	2
BEPH-4260 Philosophy of Art .....	2
BEPH-4290 Topics in Philosophy .....	2
BEPH-4900 Independent Study in Philosophy .....	1-3
BETH-3330 Christian Evidences and Apologetics .....	3
BETH-4320 Contemporary Theology .....	3

### *Suggested Electives:*

COM-2050 Communication Theory .....	3
COM-3100 Advanced Public Speaking .....	3
COM-3150 Women in America .....	3
HIST-2010, 2020 History of Civilization I & II .....	6
HIST-3030 History of Christianity: Pre-Reformation .....	3
HIST-3050 Renaissance and Reformation Europe .....	3
LIT-3350 Shakespeare .....	3
LIT-3380 Contemporary British Literature .....	3
PYCH-1600 General Psychology .....	3
PYCH-3650 Learning and Cognition .....	3

\*Capstone Course

### **Philosophy Major Curriculum Summary**

Proficiency Requirements .....	0-5
General Education Requirements .....	49-57
Philosophy Major Requirements .....	43
Electives .....	28-36
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### **Suggested Four-Year Curriculum for a Major in Philosophy**

#### *First year:*

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEPH-2200 Introduction to Philosophy .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biology Elective .....	3.5
Literature Elective .....	3
Physical Education Elective .....	1
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>33</b>

#### *Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEPH-2240 Logic .....	3
BEPH-2250 Ethics .....	3
BEPH-2260 Religion and Culture .....	3
History Elective .....	3
Quantitative Elective .....	3
Social Science Elective .....	3
Electives .....	8
<b>Total .....</b>	<b>32</b>

#### *Third year:*

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BEPH-3250 Philosophy of Religion .....	3
BEPH-3310 History of Ancient and Medieval Philosophy .....	3
BEPH-3320 History of Modern Philosophy .....	3
BEPH-3330 19th Century Philosophy .....	3
Philosophy Electives .....	9
Electives .....	6
<b>Total .....</b>	<b>31</b>

#### *Fourth year:*

BEPH-3340 Current Philosophical Developments .....	3
BEPH-4910 Seminar in Philosophy .....	2
Philosophy Electives .....	5
Electives .....	22
<b>Total .....</b>	<b>32</b>

A complete description of the general education requirements is found on page 18

**Preseminary Bible**

The **preseminary Bible major** is designed for students anticipating graduate work in preparation for vocational ministry. It provides a sufficient foundation in biblical subjects and the Greek language and enables the student to select elective courses from other departments, that will enrich his/her personal and professional development. This is an ideal program for the person who feels God's direction into a pastoral, missionary, or teaching ministry after investing at least seven years in college and seminary preparation. Seminary candidates should consult seminary catalogs to determine specific undergraduate requirements and adjust their programs at Cedarville University accordingly.

Course requirements involve 44 semester hours including:

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration.....	2
<i>Preseminary Core</i> .....	23
BECE-4100 Leadership in Christian Educ. Ministries .....	3
BENT-XXXX New Testament Elective .....	3
BEOT-XXXX Old Testament Elective .....	3
BEPH-2200 Introduction to Philosophy .....	3
BEPT-2400 Personal Evangelism .....	3
(or BEPT-3410 Discipleship .....	3)
BEST-4310 Hermeneutics .....	3
*BEST-4910 Seminar in Bible.....	2
BETH-XXXX Theology Elective.....	3

*Preseminary Concentration* ..... 5

Concentration areas include Biblical Languages, Christian Education, New Testament, Old Testament, Philosophy, or Practical Theology.

<i>Required Minor in Biblical Greek</i> .....	16
BEBL-2510,2520 Elementary Greek I & II.....	10
BEBL-3510,3520 Intermediate Greek I & II.....	6

**Recommended Minor**

Students are encouraged to select another minor from the following to add breadth to the program: business administration, Christian ministries management, church music, comprehensive communication arts, creative writing, writing for the professions, history, honors program, music, organizational communications, philosophy, psychology, sociology, TESOL, theatre, or another area of study (with permission from advisor and department of biblical education chair).

\*Capstone Course

**Preseminary Bible Major Curriculum Summary**

Proficiency Requirements.....	0-5
General Education Requirements .....	33-41
Preseminary Bible Major Requirements .....	44
Required Minor .....	16
Electives .....	27-35
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

**Suggested Four-Year Curriculum for a Major in Preseminary Bible**

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biology Elective.....	3.5
History/Global Awareness Elective .....	3
Literature Elective .....	3
Physical Education Elective .....	1
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>33</b>

*Second year:*

BECE-4100 Leadership in Christian Educ. Ministries.....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2200 Introduction to Philosophy.....	3
Old Testament Elective .....	3
Quantitative Elective .....	3
Social Science Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>30</b>

*Third year:*

BEBL-2510,2520 Elementary Greek.....	10
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
New Testament Elective.....	3
Electives.....	15
<b>Total.....</b>	<b>32</b>

*Fourth year:*

BEBL-3510,3520 Intermediate Greek.....	6
BEPT-2400 Personal Evangelism.....	3
(or BEPT-3410 Discipleship .....	3)
BEST-4310 Hermeneutics .....	3
BEST-4910 Seminar in Bible .....	2
Theology Elective.....	3
Preseminary Concentration Electives .....	5
Electives.....	11
<b>Total.....</b>	<b>33</b>

## Youth Ministries

The **youth ministries major** prepares a person for vocational ministry in a wide range of contexts: churches, camps, college campuses, parachurch organizations, crosscultural contexts, etc. It also provides a solid foundation for graduate studies in related areas.

Course requirements involve 74 semester hours including:

<i>General Education</i> .....	16
BECE-1710 Christian Life and Thought .....	3
BECE-1720 Spiritual Formation .....	3
BECE-2730 Old Testament Literature .....	3
BECE-2740 New Testament Literature .....	3
BECE-3750 Christian Worldview Development .....	2
BECE-3760 Christian Worldview Integration.....	2
<i>Youth Ministries Core</i> .....	58-60
BECE-1000 Orientation to Bible Ministries .....	1
BECE-2200 Introduction to Youth Ministry .....	2
BECE-2400 Interpreting and Teaching the Bible.....	6
BECE-3680 Children's Ministries .....	4
BECE-3700 Campus Ministries .....	4
BECE-3720 Adult Ministries .....	4
BECE-4100 Leadership of Christian Educational Ministries.....	3
*BECE-4750 Internship in Youth Ministry .....	10-12
BENT-XXXX New Testament Elective .....	3
BEOT-XXXX Old Testament Elective .....	3
BEPH-XXXX Philosophy Elective (BEPH-2200 recommended) ...	3
BEPT-2400 Personal Evangelism .....	3
BEPT-3410 Discipleship .....	3
BETH-2350 Theological Foundations of Ministry .....	3
BETH-XXXX Theology Elective (BETH-3330 recommended).....	3
<i>Select one ministry elective from the following:</i> .....	3
BECE-2100 Wilderness Ministry .....	3
BECE-3000 Women and Ministry.....	3
BECE-3500 Women's Communication for Ministry .....	3
BECE-3510 Small Group Ministry .....	3
BEPT-3510 Introduction to Urban Ministry .....	3
ESSE-2810 Introduction to Camping.....	3

\*Capstone Course

### Youth Ministries Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	33-41
Youth Ministries Major Requirements .....	74
Electives .....	13-21
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Youth Ministries

#### First year:

BECE-1000 Orientation to Bible Ministries .....	1
BECE-2200 Introduction to Youth Ministry.....	2
BECE-1710 Christian Life and Thought.....	3
BECE-1720 Spiritual Formation.....	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 the Christian Life .....	1
Biology Elective.....	3.5
Physical Science Elective .....	3.5
Quantitative Elective .....	3
<b>Total.....</b>	<b>32</b>

#### Second year:

BECE-2400 Interpreting and Teaching the Bible .....	6
BECE-2730 Old Testament Literature .....	3
BECE-2740 New Testament Literature.....	3
BEPT-2400 Personal Evangelism.....	3
BETH-2350 Theological Foundation of Ministry .....	3
History/Global Awareness Elective .....	3
Literature Elective .....	3
Philosophy Elective.....	3
Physical Education Elective.....	1
Social Science Elective.....	3
<b>Total.....</b>	<b>31</b>

#### Third year:

BECE-3680 Children's Ministries .....	4
BECE-3700 Campus Ministries .....	4
BECE-3720 Adult Ministries .....	4
BECE-3750 Christian Worldview Development.....	2
BECE-3760 Christian Worldview Integration .....	2
BEPT-3410 Discipleship .....	3
BEOT-XXXX Old Testament Elective.....	3
Minor Requirement or Electives.....	10
<b>Total.....</b>	<b>32</b>

#### Summer:

BECE-4750 Internship in Youth Ministry .....	10-12
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#### Fourth year:

BECE-4100 Leadership of Christian Educational Ministries.....	3
BENT-XXXX New Testament Elective .....	3
BETH-XXXX Theology Elective .....	3
BEXX-XXXX Ministry Elective.....	3
Minor Requirement or Electives.....	9-11
<b>Total.....</b>	<b>21-23</b>

**World Missions**

Students seeking to be involved in cross-cultural ministries on international fields or in America need to be prepared with an understanding of cultural engagement, a Biblical model of mission, and the skills to study and teach Scripture. “International Studies” is a degree name generally recognized internationally and reduces barriers associated with the name “world missions” in some contexts. For these reasons, see the major “International Studies: missiology concentration” (pg. 130) for a description of the major integrating studies within Bible and other departments to effectively prepare for cross-cultural ministries. See below for a summary of this concentration.

**International Studies – Missiology**

The **international studies major** utilizes courses from several academic disciplines to prepare students for a variety of internationally focused careers. A distinct international studies core provides the foundation for all the concentrations available in this major.

Course requirements involve 21 semester hours of core requirements and 60 hours of concentration requirements. See the major: “International Studies” (pg. 130) for details on other concentrations.

<i>International Studies Core Requirements</i> .....	21
<sup>1,2</sup> ANTH-1800 Cultural Anthropology .....	3
<sup>2</sup> BEPH-2260 Religion and Culture.....	3
BUS-3910 International Business.....	3
<sup>2</sup> COM-3140 Intercultural Communication .....	3
(or PSYCH-1800 Cross Cultural Psychology .....	3)
GEO-3510 World Regional Geography-West.....	3
(or GEO-3520 World Regional Geography-East.....	3)
<sup>3</sup> HIST-2010 History of Civilization I.....	3
(or HIST-2020 History of Civilization II.....	3)
INTL-3190 Global Issues.....	3

The **missiology concentration** provides students with a missiological view of the international community. Involving coursework in mission, philosophy, sociology, geography, political science, economics, and literature, this program prepares students for a variety of mission-related positions. Course requirements involve 60 hours including:

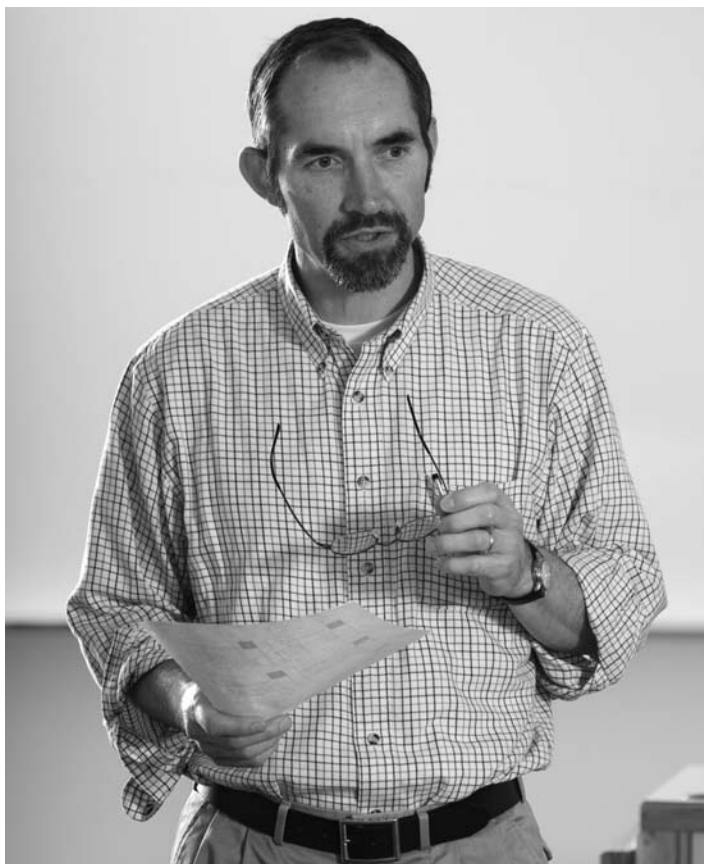
<i>Missiology Concentration Requirements</i> .....	42
BECE-4100 Leadership of CE Ministries.....	3
BEPT-2000 Introduction to Mission .....	3
BEPT-2400 Personal Evangelism .....	3
BEPT-2420 History of Mission.....	3
BEPT-3450 Contemporary World Mission.....	3
BEPT-3470 Cross-Cultural Ministry.....	3
BEPT-3510 Introduction to Urban Ministry .....	3
BEST-4310 Hermeneutics .....	3
*BEPT-4500 Missionary Internship.....	6
BENT-3XXX New Testament Elective .....	3
BEOT-3XXX Old Testament Elective.....	3
BETH-3XXX Theology Electives .....	6

<i>Electives selected from:</i> .....	18
<i>Two courses in philosophy</i> .....	6
<sup>2</sup> BEPH-2200 Introduction to Philosophy .....	3
<sup>2</sup> BEPH-2250 Ethics .....	3
BEPH-3250 Philosophy of Religion .....	3
BETH-3330 Christian Evidences and Apologetics.....	3
<i>One course in sociology</i> .....	3
SOC-3340 Sociology of Religion .....	3
SOC-3710 Family and Society.....	3

<i>One course in geography or political science</i> .....	3
GEO-3510 World Regional Geography–West .....	3
GEO-3520 World Regional Geography–East .....	3
POLS-3200 History and Politics of Latin America.....	3
POLS-3210 History and Politics of Asia.....	3
POLS-3220 History and Politics of the Middle East.....	3
POLS-3540 History and Politics of Africa.....	3
POLS-3650 International Relations .....	3
POLS-4050 Great Power Diplomacy in the Modern World.....	3
<i>One course in economics</i> .....	3
ECON-3350 Comparative Economic Systems .....	3
ECON-3360 International Trade and Economics.....	3
ECON-3380 Economic Development and Political Economy .....	3
<i>One course in literature or culture</i> .....	3
<sup>4</sup> LIT-2340 Western Literature .....	3
SPAN-3680 Understanding Hispanic Culture .....	3
<sup>1</sup> Satisfies social science General Education Requirement	
<sup>2</sup> Satisfies humanities General Education Requirement	
<sup>3</sup> Satisfies history General Education Requirement	
<sup>4</sup> Satisfies literature General Education Requirement	
*Capstone Course	

**International Studies Major-Missiology Concentration Curriculum Summary**

Proficiency Requirements.....	0-5
Other General Education Requirements .....	40-48
International Studies Core Requirements.....	21
Missiology Concentration Requirements.....	60
Electives .....	0-7
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



*Dr. Chris Miller, professor of Bible, integrates knowledge of God’s Word with practical applications.*

# Biblical Education

School of Humanities, Fine Arts and Bible

## One-Year Bible Program

The **one-year Bible program** is a non-degree program designed to provide the student with greater Bible knowledge through intensive study of the Scriptures in a single academic year. The curriculum involves surveys of the entire Bible and the major Christian doctrines as well as specific book studies, practical theology courses, and electives chosen by the student. Whether the student is a university freshman desiring a good foundation of biblical knowledge in seeking the will of God, a student from an academic program not offered by a Christian college or university, or an individual just desiring personal enrichment through formal Bible study, the one-year Bible program will equip that individual with greater spiritual understanding so that he or she will become a more effective member of the body of Christ.

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

<i>General Education</i> .....	16
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
BENT-XXXX New Testament Electives.....	6
BEOT-XXXX Old Testament Electives.....	3
BEPH-XXXX Philosophy Elective.....	3
<i>Other Bible Electives</i> .....	6

## Minors

### Bible Minor

The **Bible minor**, a part of the General Education Requirement, involves 16 semester hours of course work including:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2

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

BECE-2400 Interpreting and Teaching the Bible.....	6
<i>Choose one from the following</i> .....	4
BECE-3680 Children's Ministries.....	4
BECE-3700 Campus Ministries.....	4
BECE-3720 Adult Ministries.....	4
<i>Any courses with BECE or BEPT designators</i> .....	6

### Greek Minor

The **Greek minor** provides the student with two years of study in Koine Greek, the original language of the New Testament. Designed to prepare students for advanced Greek language study at the seminary level, this minor is required for preseminary majors. Course requirements include 16 semester hours of elementary and intermediate Greek.

### Mission Minor

The **mission minor** for the student interested in crosscultural ministries involves 18 semester hours including:

BEPT-2000 Introduction to Mission.....	3
BEPT-2420 History of Mission.....	3

BEPT-3450 Contemporary World Missions.....	3
BEPT-3470 Cross Cultural Ministry.....	3
<i>At least 6 hours selected from</i> .....	6
BEPH-2260 Religion and Culture.....	3
BEPT-2400 Personal Evangelism.....	3
BEPT-3410 Discipleship.....	3
BEPT-3510 Introduction to Urban Ministry.....	3
BEPT-4300 Missiology and Missiologists.....	3
BETH-3400 Current Religious Movements.....	3

### Philosophy and Religion Minor

The **philosophy and religion minor** involves 15 semester hours of course work in philosophy and religion for the student who seeks a greater understanding of the nature and history of philosophical thinking and its impact on the religious life.

### Preseminary Minor

The **preseminary minor** is designed to help the student prepare for graduate theological education and consists of 17-21 semester hours including:

<i>Choose between Greek or Hebrew</i> .....	6-10
<i>Greek</i> .....	10
BEBL-2510 Elementary Greek.....	5
BEBL-2520 Elementary Greek.....	5
<i>Hebrew</i> .....	6
BEBL-2610 Elementary Hebrew.....	3
BEBL-2620 Elementary Hebrew.....	3
BEPH-3250 Philosophy of Religion.....	3
BEST-2910 Theological Research.....	2
<i>At least two courses selected from</i> .....	6
BEPH-2240 Logic.....	3
BEST-4310 Hermeneutics.....	3
BETH-3330 Christian Evidences and Apologetics.....	3
BETH-4320 Contemporary Theology.....	3

### Women's Ministry Minor

The **women's ministry minor** involves 18-21 semester hours for students who desires 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:

BECE-3520 Counseling and Mentoring Women.....	3
BECE-3530 Contemporary Women's Ministry.....	3
BEPT-3480 Women's Communication for Ministry.....	3
BEST/BETH-2920 Scriptural Interp of Gender Issues/Roles.....	3
<i>Select one from the following</i> .....	3
BECE-3540 Women in Church History.....	3
BEST-4950 Men and Women in Leadership.....	3
<i>Select one from the following</i> .....	3-6
BECE-2400 Interpreting and Teaching the Bible.....	6
BECE-3510 Small Group Ministry.....	3
BEPT-2400 Personal Evangelism.....	3
BEPT-3410 Discipleship.....	3
BEPT-3430 Pastoral Counseling.....	3
BEPT-3470 Cross Cultural Ministry.....	3
BEPT-3510 Small Group Ministry.....	3
COM-3150 Gender, Politics, and Communication.....	3

### Youth Ministry Minor

The **youth ministry minor** involves 15 semester hours of coursework for the student who wishes to become better equipped to serve in youth ministries. These courses include:

BECE-2200 Introduction to Youth Ministry.....	2
BECE-2400 Interpreting and Teaching the Bible.....	6
BECE-3700 Campus Ministries.....	4
<i>Any courses with BECE or BEPT designators</i> .....	3

## Course Descriptions

### General Education Courses

Every student must take six Bible courses to meet the general education requirements. These 16 semester hours constitute a minor in Bible. They will also count toward the course requirements of any biblical education major. **These courses may not be taken on an out-of-class basis or by correspondence study.**

**BEGE-1710 Christian Life and Thought**—Fa,Sp,Su **3 hours**

A foundational course designed to introduce the student to a Christian worldview. Attention is first given to the definition, function, formation, and evaluation of worldview. Then Christian responses and applications will be developed from a survey of biblical theology with emphasis upon the teaching about the Creator, creation, redemption, and consummation.

**BEGE-1720 Spiritual Formation**—Fa,Sp,Su **3 hours**

The nature and process of spiritual formation is examined from a biblical perspective with an emphasis upon the practice of spiritual disciplines. The course undergirds students with a theology of the Bible and an introduction to the inductive method of Bible study.

**BEGE-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: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation.*

**BEGE-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: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation.*

**BEGE-3750** **2 hours**

**Christian Worldview Development**—Fa,Sp,Su

A continued development of a Christian worldview, with a particular emphasis on the essence and work of the Triune God and the cosmic and communal dimensions of his plan in history. *Prerequisite: completion of either BEGE-2730 Old Testament Literature or BEGE-2740 New Testament Literature and at least concurrent enrollment in the second 2000-level BEGE course.*

**BEGE-3760 Christian Worldview Integration**—Fa,Sp,Su **2 hours**

An evaluation of selected contemporary issues in the light of a Christian worldview as informed by the theological content of the Scriptures. *Prerequisite: BEGE-3750 Christian Worldview Development.* (Fee: \$10)

### Biblical Languages

**BEBL-2510, 2520** **5 hours/semester**

**Elementary Greek I & II**—Fa; Sp

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.

**BEBL-2610, 2620** **3 hours/semester**

**Elementary Hebrew I & II**—Fa; Sp

Introduction to the basic elements of biblical Hebrew. Attention is given to vocabulary, grammar, and the use of language tools.

**BEBL-3510, 3520** **3 hours/semester**

**Intermediate Greek I & II**—Fa; Fa,Sp

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. *Prerequisite: BEBL-2510, 2520 Elementary Greek.*

**BEBL-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.

### Biblical Studies—Old Testament

**BEOT-3110 Pentateuch**—Fa **3 hours**

Detailed study of the five books of Moses. Attention is given to the historical material, theological problems, and practical and homiletic values of these books. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (Fee: \$150)

**BEOT-3125** **3 hours**

**Selected Studies in the Historical Books**—Sp

Selected studies in key issues related to the historical books. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BEOT-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: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BEOT-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: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BEOT-3165** **3 hours**

**Selected Studies in the Prophetic Books**—Sp

Selected studies in the prophetic books. The ministry of the prophets to their own times is considered as well as their literary predictions, both fulfilled and unfulfilled. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BEOT-3210 Historical Books I**—Fa **3 hours**

Study of Joshua, Judges, and Ruth with an emphasis on the pre-monarchical history of ancient Israel, literary features of the texts, and the theology of the period. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (every third year)



# Biblical Education

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## BEOT-3220 Historical Books II–Fa 3 hours

Study of Samuel and Kings with an emphasis on the monarchical history of ancient Israel, literary features of the texts and the theology of the period. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3230 Historical Books III–Fa 3 hours

Study of Ezra, Nehemiah, Esther and I/II Chronicles with an emphasis on the post-exilic history of ancient Israel, literary features of the texts and the theology of the period. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3240 Minor Prophets I–Sp 3 hours

Study of the minor prophets operating in the Neo-Assyrian period: Hosea, Amos, Jonah, Micah; with an emphasis on historical background, literary features, theology and prophetic ministry. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3250 Minor Prophets II–Sp 3 hours

Study of the minor prophets operating in the Neo-Babylonian period: Zephaniah, Nahum, Habakkuk, Obadiah, and Joel; with an emphasis on historical background, literary features, theology and prophetic ministry. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3260 Minor Prophets III–Sp 3 hours

Study of the minor prophets operating in the Persian period: Haggai, Zachariah and Malachi; with an emphasis on historical background, literary features, theology and prophetic ministry. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3270 Major Prophets I–Fa 3 hours

Study of Isaiah, Jeremiah, and Lamentations with an emphasis on historical backgrounds, literary features, theology and prophetic ministry. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-3280 Major Prophets II–Fa 3 hours

Study of Ezekiel and Daniel with an emphasis on historical backgrounds, literary features, theology and prophetic ministry. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (every third year)

## BEOT-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.

## BEOT-4990 Topics in Old Testament–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.

### Biblical Studies–New Testament

## BENT-3110 Jesus and the Gospels–Fa 3 hours

Study of the four Gospels and their central figure, Jesus of Nazareth. Attention is given to the historical background, scholarly methods for studying the Gospels, the trustworthiness of the Gospels, and a survey of Christ's life. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor.

## BENT-3120 The Book of Acts–Fa 2 hours

Analysis of the missionary outreach of the apostolic period with special emphasis on transitional theological problems, the journeys of Paul, and the historical setting of the epistles. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (odd years)

## BENT-3130 The Prison Epistles–Fa 3 hours

Detailed study of Ephesians, Philippians, Colossians, and Philemon including their historical settings and doctrinal distinctives. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (even years)

## BENT-3140 3 hours

### The Thessalonian and Pastoral Epistles–Sp

An exegesis of First and Second Thessalonians, First and Second Timothy, and Titus with special attention given to their background, eschatological features, and presentation of local church administration. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (odd years)

## BENT-3150 The General Epistles–Sp 3 hours

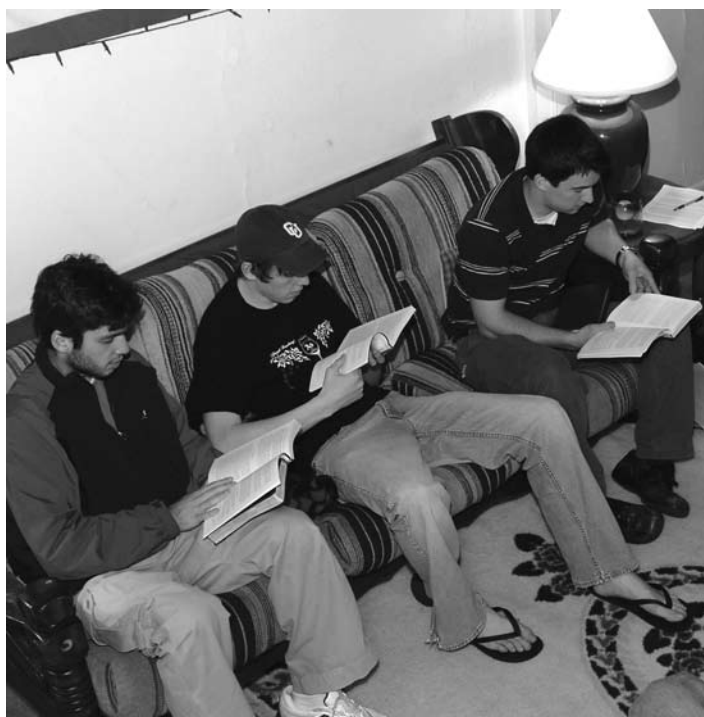
Examination of James, First and Second Peter, the three epistles of John, and Jude with consideration placed upon their backgrounds, exposition on apostate teachers, and lessons on practical living. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor. (odd years)

## BENT-3160 The Book of Revelation–Fa 2 hours

Detailed exposition of this book with stress upon its literary structure, its exaltation of Christ, and its outline of future events. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor.

## BENT-4110 Romans and Galatians–Sp 3 hours

Exegetical study with stress upon Paul's logical development of doctrinal themes, the relationship of Israel to God's redemptive program, and practical Christian living. *Prerequisite:* BEGE-2730 *Old Testament Literature*; BEGE-2740 *New Testament Literature*; or permission of the instructor.







**BENT-4120 The Corinthian Epistles—Sp 3 hours**

Exposition of First and Second Corinthians with attention given to their historical backgrounds, their teachings, and the integrity of Pauline apostleship. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (even years)

**BENT-4130 The Book of Hebrews—Sp 2 hours**

Exposition of this book with stress upon the nature of Christ's priesthood, the typology of the Old Testament sacrificial system, and the superiority of Christianity. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (even years)

**BENT-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.

**BENT-4990 Topics in New Testament 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.

**Christian Education**

**BECE-1000 Orientation to Bible Ministries Majors—Fa 1 hour**

An introduction to the ministries majors provided within the department of biblical education (youth ministries, Christian education, or missions). The class 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

**BECE-2100 Wilderness Ministry 3 hours**

See the Exercise and Sport Science department course description for ESSE-2100 Wilderness Ministry. Credit/no credit. (Fee: \$340)

**BECE-2200 Introduction to Youth Ministry—Sp 2 hours**

The class 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.

**BECE-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: BEGE-1720 Spiritual Formation.*

**BECE-2830 Recreational Leadership—Sp 2 hours**

Survey of the recreational aspects of games and activities from a noncompetitive perspective. Small and large group activities are planned such as new games and challenge initiatives to enhance individual and group development and recognize group process and group dynamics. Practical work in planning, implementing, and evaluating recreational programs for children, youth, and adults in school, youth group outings, Bible clubs, and camps will be provided. (odd years)

**BECE-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.

**BECE-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 PSYCH.

**BECE-3530 Contemporary Women's Ministry—Sp 3 hours**

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 full-time, part-time and volunteer opportunities for women, concluding with the development of each student's own "dream ministry."

**BECE-3540 Women in Church History—Fa 3 hours**

Study of women in various eras throughout church history and their impact on the body of Christ.

**BECE-3680 Children's Ministries—Fa,Sp 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to children 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 age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BECE-2400 Interpreting and Teaching the Bible; Major or minor status or permission of the instructor.*

**BECE-3685 Children's Ministries - non-majors—Fa,Sp 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to children 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 age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. *No prerequisites.*

**BECE-3700 Campus Ministries—Sp 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry 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 age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BECE-2400 Interpreting and Teaching the Bible; Major or minor status or permission of the instructor.* (Fee: \$20)

# Biblical Education

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## **BECE-3705 Campus Ministries for non-majors—Sp 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry 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 age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. *No prerequisites.* (Fee: \$20)

## **BECE-3720 Adult Ministries—Fa 4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults 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 age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BECE-2400 Interpreting and Teaching the Bible; Major or minor status or permission of the instructor.*

## **BECE-3725 Adult Ministries for non-majors—Fa,Sp 3 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults 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 age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. *No prerequisites.*

## **BECE-4100 Leadership of Christian Educational Ministries—Sp 3 hours**

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 BECE courses. *Prerequisites: For CE and Youth Ministries majors: BECE-2400; BECE-3680; BECE-3700; BECE-3720. No prerequisites for non-majors.* (Fee: \$30)

## **BECE-4220 Seminar in Christian Education 2 hours**

Trends and problems of the field are analyzed and defined by individual research and group conferences.

## **BECE-4500 Internship in Christian Education 10-12 hours**

Ten weeks in a local church gaining experience in the total educational program of the church, under the supervision of Christian education faculty and the pastor and/or director of Christian education. Capstone course. *Prerequisites: 1) Approval of the faculty of the department of biblical education. 2) Senior academic status. 3) Completion of the following five courses: BETH-2350 Theological Foundations of Ministry; BEST-2400 Interpreting and Teaching the Bible; BECE-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BEPT-2400 Personal Evangelism or BEPT 3410 Discipleship; and one class in ministry concentration area. Credit/No Credit.*

## **BECE-4750 Internship in Youth Ministries 10-12 hours**

This capstone course for the Youth Ministries major is a mentored and evaluated ministry experience in a full-time leadership role in ministry for a minimum of ten weeks. *Prerequisites: 1) Approval of the faculty of the department of biblical education. 2) Senior academic status. 3) Completion of the following six courses: BETH-2350 Theological Foundations of Ministry; BECE-2200 Introduction to Youth Ministry; BEST-2400 Interpreting and Teaching the Bible; BECE-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BEPT-2400 Personal Evangelism or BEPT-3410 Discipleship; and one class in ministry concentration area. Credit/ No Credit.*

## **BECE-4900 Independent Study in Christian Education—Fa,Sp,Su 1-3 hours**

Students will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge.

## **BECE-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 Teacher Education**

### **BEDU-3110 Clinical Teaching in Bible—Fa,Sp 1 hour**

Students are assigned to assist a college instructor in classroom teaching, evaluation, and related responsibilities. The student must complete 45 clock hours of clinical involvement.

## **Philosophy and Religion**

### **BEPH-2200 Introduction to Philosophy—Fa,Sp 3 hours**

Survey of the principle issues in Western philosophy, covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy.

### **BEPH-2240 Logic—Fa 3 hours**

Study of the principles of correct and fallacious reasoning involved in traditional logic and modern logic.

### **BEPH-2250 Ethics—Fa 3 hours**

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.

### **BEPH-2260 Religion and Culture—Fa,Sp 3 hours**

Introduction to religious issues, themes, and alternatives as they emerge in the historical context of Eastern and Western culture.

### **BEPH-3240 Epistemology—Fa 3 hours**

Study of the nature, sources, types, tests, and limits of human knowledge. *Prerequisite: BEPH-2200 Introduction to Philosophy.*

### **BEPH-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: BEPH-2200 Introduction to Philosophy.*



**BEPH-3260 Symbolic Logic—Sp 3 hours**

Study of systems of natural deduction (including metatheoretic proofs and methods) in propositional logic, first-order logic, and modal logic with emphasis on assessing arguments in natural language. *Prerequisite:* BEPH-2240 Logic; or MATH-2210 Logic and Methods of Proof; or permission of instructor.

**BEPH-3280 Metaphysics—Sp 3 hours**

Study of selected topics in metaphysics, including the mind-body problem, substance, qualities and universals, identity, space and time, causation, and freedom and determinism. *Prerequisite:* BEPH-2200 Introduction to Philosophy. (odd years)

**BEPH-3310 3 hours**

**History of Ancient and Medieval Philosophy—Fa**

Survey of men and movements in Greek and Christian philosophy from Thales to Aquinas. Selected, representative writings of the philosophers will be read. *Prerequisite:* BEPH-2200 Introduction to Philosophy. (odd years)

**BEPH-3320 History of Modern Philosophy—Sp 3 hours**

Study of the principal philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized.

*Prerequisite:* BEPH-2200 Introduction to Philosophy. (odd years)

**BEPH-3330 19th Century Philosophy—Fa 3 hours**

Survey of significant European and American philosophies of the 19th and early 20th centuries from Hegel to the first World War. Special attention will be given to Hegelianism, early existentialism, pragmatism, and analytic philosophy. *Prerequisite:* BEPH-2200 Introduction to Philosophy. (even years)

**BEPH-3340 Current Philosophical Developments—Sp 3 hours**

Survey of significant European and American philosophies of the 20th century, focusing specifically on developments from the 1960s to the present. (even years)

**BEPH-3400 Philosophy of Law and Economics 3 hours**

Course will clarify the conceptual structures that underlie both law and economic analysis. Explores the connections between ethics and legal theory and practice and economics. (odd years)

**BEPH-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)

**BEPH-4250 Philosophy of Science 2 hours**

Critique of the concepts, methods, and arguments of the various sciences, as well as an analysis of the theological and philosophical underpinnings of science, which aims to demarcate science from pseudo-science, evaluate contemporary thought in the limits of science, and evaluate the relations between science, human values, religion, and technology. (odd years)

**BEPH-4260 Philosophy of Art—Sp 2 hours**

Study of the nature of art and the aesthetic experience. Possible topics include the concept of creativity, the nature and value of the work of art, the function of art, the truth in art, the relation of art and society, and the aesthetic attitude and aesthetic values, such as beauty and the philosophy of art. (Fee: \$10)(odd years)

**BEPH-4290 Topics in Philosophy—Sp 1-3 hours**

Various topics offered as interest demands. For majors in philosophy. Permission of instructor required for non-majors and minors.

**BEPH-4900 Independent Study in Philosophy—Fa,Sp,Su 1-3 hours**

The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge.

**BEPH-4910 Seminar in Philosophy—Fa 2 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.

**Practical Theology**

**BEPT-2000 Introduction to Mission—Sp 3 hours**

Foundational concepts and concerns of mission today including definitions, mission theology, "calling," mission ministries, qualifications, preparation, mission and the local church, the missionary family, the MK, short-term missions, mission agencies, the application process, and cultural adjustment.

**BEPT-2400 Personal Evangelism—Fa,Sp 3 hours**

Study of the philosophy, principles, and methodology of personal evangelism. The course includes developing a personal witnessing methodology, understanding the current issues in evangelism, and learning to answer the difficult questions often asked in witnessing experiences. A one day evangelistic field trip is required. *Prerequisite:* BEGE-1710 Christian Life and Thought. (Fee: \$15)

**BEPT-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.

**BEPT-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.

**BEPT-3420 Pastoral Ministry—Sp 2 hours**

The pastor's life and ministry. Course provides broad overview of pastoral duties such as presiding over weddings, funerals, church services, etc. In addition, such issues as the pastoral call, candidating, ordination, cultivating 21st century leadership, family issues, etc., are also addressed.



# Biblical Education

School of Humanities, Fine Arts and Bible

## **BEPT-3430 Pastoral Counseling—Fa 3 hours**

Principles and practices of pastoral counseling. Course provides overview of the nature, scope, and basic practices of counseling within a church ministry context. Such issues as crisis counseling, family life issues, depression, abuse issues, etc. are also addressed within a ministry paradigm.

## **BEPT-3450 Contemporary World Missions—Sp 3 hours**

Study of the development, methods, and problems of Christian missions since World War II. (Fee \$50)

## **BEPT-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.

## **BEPT-3480 Women's Communication for Ministry—Sp 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.

## **BEPT-3490 The Pastor's Wife 2 hours**

The pastor's wife: her responsibilities, problems, and privileges. Practical suggestions from area pastors' wives, individual research, and group discussion will be explored.

## **BEPT-3500 Homiletics—Fa 3 hours**

Introductory course designed to develop the students' philosophies of preaching. Emphasis is placed on the preparation of expository sermons and practice in their delivery. *Prerequisites: COM-1100 Fundamentals of Speech; junior or senior status.*

## **BEPT-3510 Introduction to Urban Ministry—Fa 3 hours**

An introduction to the principles and practices of urban ministry. Focus will be on developing a biblical view of the city as well as understanding the sociological, anthropological, and multi-cultural distinctives of the urban context. Attention will be given to particular urban issues such as ministering to the poor, developing an incarnational lifestyle, and authentic strategies for urban ministry. (Fee: \$50)

## **BEPT-4300 Missiology and Missiologists—Fa 3 hours**

An introduction into the discipline of missiology and a survey of the contributions of key missiologists from the mid-19th century.

## **BEPT-4400 Pastoral Internship 5-12 hours**

Ten weeks in a local church gaining experience in pastoral responsibilities under the supervision of Bible department faculty and/or the local pastor. Five hours will count toward the preseminary major. Capstone course. *Prerequisite: approval of the Bible faculty and completion of the following courses: BEPT-3420 Pastoral Ministry; BEPT-3430 Pastoral Counseling; BEPT-3500 Homiletics; BEPT-4560 Advanced Homiletics.*

## **BEPT-4500 Missionary Internship 3-12 hours**

Four to six weeks in a crosscultural context gaining experience in actual missions activity under the supervision of missions department faculty and a qualified missionary. This program is open to students in various majors. Up to three hours may count toward the preseminary major. Capstone course. *Prerequisites: completion of at least two missions courses; approval of the Bible faculty. Repeatable up to 12 credit hours.*

## **BEPT-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. (Fee: \$50)

## **BEPT-4560 Advanced Homiletics—Sp 3 hours**

Advanced study of sermon structure development and effective delivery. Designed to give the student practice in outlining, writing, delivering, and evaluating sermons for different types of preaching situations. *Prerequisite: BEPT-3500 Homiletics.*

## **BEPT-4900 1-3 hours**

### **Independent Study in Practical Theology—Fa,Sp,Su**

Students will investigate an area of pastoral ministry or missions, the latter including mission boards, methods, and places of service.

## **BEPT-4990 Topics in Practical 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.

### **Special Topics**

## **BEST-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: BEGE-1720 Spiritual Formation.*

## **BEST-2920 3 hours**

### **Scriptural Interpretations of Gender Issues and Roles—Fa**

A survey of key biblical components that delineate what it means to be male and female in Christ. The course includes a study of various views held within the evangelical community, a survey of women in the Bible, and a discussion of gender within the current cultural milieu. Crosslisted with BETH-2920 *Prerequisite: BEGE-1720 Spiritual Formation*

## **BEST-3400 Bible Backgrounds—Sp 3 hours**

An introduction to the world of the Bible including the historical context, geographical setting, cultural milieu, and archaeological evidences that help explain the biblical text. (odd years)

## **BEST-3410 Biblical Archaeology I—Sp 2 hours**

An introduction to biblical archaeology and the historical and cultural backgrounds of the Old and New Testaments. (Fee: \$150) (even years)

## **BEST-3420 Biblical Archaeology II—Su 1 hour**

An introduction to the archaeology of the Old and New Testaments and the historical and cultural background of the Bible on a field trip to Europe. It will also introduce the historical and cultural aspects of European Christianity. (Fee: Not to exceed \$3000) (even years)



**BEST-4310 Hermeneutics—Fa 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.

**BEST-4900 1-3 hours**

**Independent Study in Special Topics—Fa,Sp**

Students will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge.

**BEST-4910 Seminar in Bible—Fa,Sp 2 hours**

Senior course for preseminary and comprehensive Bible majors. Students demonstrate the ability to articulate and defend an appropriate systematic theology. Capstone course.

**BEST-4950 Men and Women in Leadership—Fa 3 hours**

A complementary perspective of men and women providing leadership for the body of Christ within the current cultural milieu.

**BEST-4990 Topics in Special Topics—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.

**Theology**

**BETH-2350 Theological Foundations of Ministry—Fa 3 hours**

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. *Prerequisite: BEGE-1710 Christian Life and Thought.*

**BETH-2920 3 hours**

**Scriptural Interpretations of Gender Issues and Roles—Fa**

A survey of key biblical components that delineate what it means to be male and female in Christ. The course includes a study of various views held within the evangelical community, a survey of women in the Bible, and a discussion of gender within the current cultural milieu. Crosslisted with BEST-2920 *Prerequisite: BEGE-1720 Spiritual Formation*

**BETH-3330 Christian Evidences and Apologetics—Fa 3 hours**

Study of the basis for, and the nature of, evidence for Christianity. Emphasis on biblical revelation and its use in the defense and confirmation of the gospel. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BETH-3350 Bibliology and Theology Proper—Fa 3 hours**

Study of bibliology, the doctrine of the Scriptures. Emphasis on its revelation, inspiration, canonicity, and illumination; and theology proper, the doctrine of the being of God with attention given to His existence, attributes, trinitarian relationships, and decrees. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (odd years)*

**BETH-3360 Angelology and Anthropology—Sp 3 hours**

Study of angelology, the doctrine of the unfallen angels, the fallen angels, and Satan; and anthropology, the doctrine of man, with stress on his creation, constitution, fall, and sinful condition. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; BEGE-3750 Christian Worldview Development; or permission of instructor. (odd years)*

**BETH-3400 Current Religious Movements—Sp 3 hours**

Survey of new religious movements with attention given to their history, beliefs, and practices, as well as to critical assessment and appropriate response. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BETH-4320 Contemporary Theology—Sp 3 hours**

Critical study of traditions, trends, issues, and major thinkers in contemporary theology. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; BEPH-2200 Introduction to Philosophy; or permission of the instructor.*

**BETH-4370 Soteriology and Christology—Fa 3 hours**

Study of soteriology, the doctrine of salvation, including election, the atonement, and eternal security; and Christology, the doctrine of Christ with emphasis upon His deity, humanity, and redemptive work. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years)*

**BETH-4380 Pneumatology and Ecclesiology—Fa 3 hours**

Study of pneumatology, the doctrine of the person and work of the Holy Spirit; and ecclesiology, the doctrine of the church with stress on the universal church and the local church.

*Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; BEGE-3750 Christian Worldview Development; or permission of instructor. (even years)*

**BETH-4390 Eschatology—Sp 3 hours**

Study of eschatology, the doctrine of last things with attention given to the rapture of the church, the tribulation, the millennium, the eternal state, and the distinctives of dispensationalism.

*Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years)*

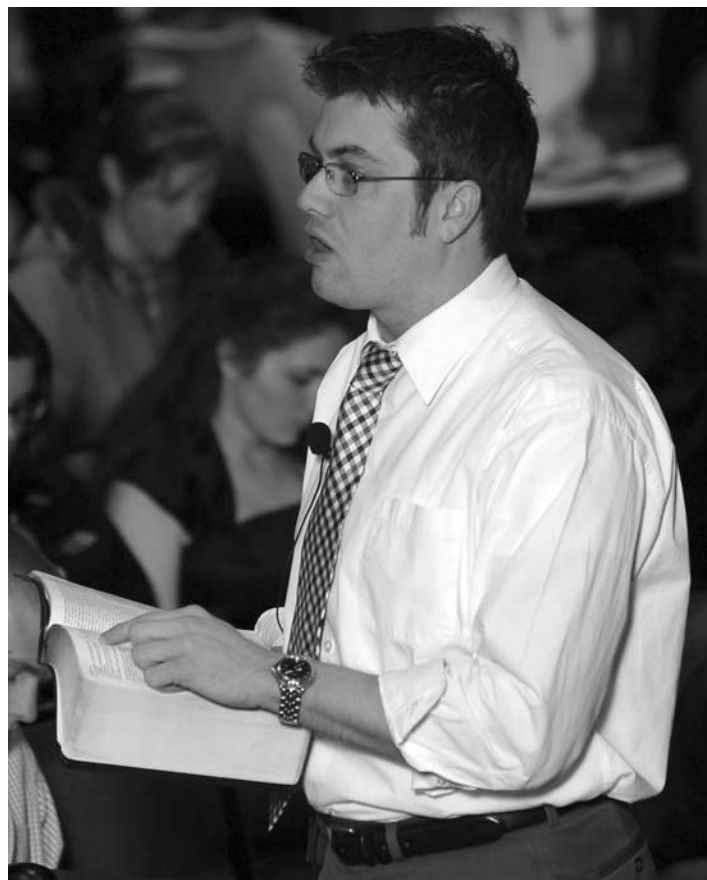
**BETH-4900 1-3 hours**

**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. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*

**BETH-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. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.*



## Mission Statement

The mission of the Cedarville University Department of Business Administration is to facilitate the development of business men and women who are personally discerning and professionally competent and who will influence their organizations, professions, and culture through service and leadership anchored in biblical truth.

Given our vision as a department, our broader mission is to provide students with an education in business theory and practice from a distinctly Christian worldview.

- 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 value-centered 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 department has established the following goals:

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

## Accreditation

The department of business administration received its initial professional accreditation for its degree programs from the Association of Collegiate Business Schools and Programs (ACBSP) in June 2005.

## Personal Requirements

A college preparatory curriculum in high school provides the best preparation for the bachelor degree programs in the department of business administration. Three or four years of high school mathematics, including calculus, are recommended for students anticipating graduate 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 may prove to be helpful.

## Department Requirements

Although students in the department of business administration are not required to apply for admission to the department, 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 department chairperson.

- Students majoring in business must earn at least a 2.0 grade point average 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 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 chairperson of the department 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.
- 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 department chairperson.
- To graduate with a major from the department 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).
- Every major and minor offered by the department of business administration requires that a minimum of 50% of the business courses in the business administration core and 50% of the specific business courses required for each major or minor be earned at Cedarville University. Any CLEP or advanced placement credits earned are not considered to be earned at Cedarville University.

## Programs of Study

The department of business administration offers the following programs:

### Majors

- Accounting
- Finance
- International Studies:  
Global Economics and  
International Business
- Information Systems
- Marketing

### Minors

- Business Administration
- Christian Ministries  
Management
- Economics
- Information Systems
- International Business

### Co-Curricular Opportunities

The department of business administration provides several co-curricular opportunities for students to enhance their classroom experience as they prepare for their professional careers.

#### 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.

#### Students in Free Enterprise

Cedarville participates in the Students in Free Enterprise (SIFE) program with a number of other universities across the country. Students plan community events and enter a regional competition, developing leadership and teamwork skills.

#### 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 of Information Technology Professionals

The Association of Information Technology Professionals (AITP) provides management information systems and computer science majors with opportunities to network with business professionals while attending meetings, seminars, and activities.

#### Human Resources Management (SHRM)

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

### 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
- Controller
- Budget analyst
- CPA
- IRS agent
- FBI agent
- Internal audit
- Chief financial officer

#### 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:

- Financial analyst
- Financial planner
- Securities analyst
- Chief Financial officer
- Treasurer
- Lending officer
- Portfolio manager
- Bank Branch manager

#### GEIB Major

Global Economics and International 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 foreign firm, a multinational enterprise, an international division of a domestic company, or one of the many government organizations at the national, state, or local level concerned with global business development.

#### Management Major

Management focuses on developing the leadership 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:

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

#### Information Systems Major

Businesses and other 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 systems major prepares individuals for careers as:

- Information systems analyst
- Programmer/analyst
- Business systems consultant
- E-business developer
- Manager in information systems
- Manager/analyst
- Network administrator
- Web developer

#### 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

### Faculty

**Bert Wheeler**, Interim Chairman. 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.

**Harry Anderson**, Assistant Professor of Accounting. *Education:* B.A., Wheaton College, 1967; M.Acc., The Ohio State University, 1969; C.P.A., State of Ohio, 1979. At Cedarville since 2003.

**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.

**Alan Dillman**, Associate Professor of Management Information Systems. *Education:* B.B.A., Kent State University, 1984; M.S., Nova University, 1992; Ph.D., Nova Southeastern University, 1995. At Cedarville since 2004.

**Jeffrey Fawcett**, Professor of Marketing. *Education:* B.A., Cedarville University, 1982; M.B.A., University of Baltimore, 1986; D.B.A., Cleveland State University, 1999. At Cedarville since 1987.

**Franco Gandolfi**, Associate Professor of International Business. *Education:* B.C., Swiss Institute of Commerce and Economics, 1990; M.C., Swiss Institute of Commerce and Economics, 1992; M.E., University of Sydney, 1997; D.B.A., Southern Cross University, 2001. At Cedarville since 2004.

**Jeffrey Guernsey**, Assistant Professor of Finance. *Education:* B.S., Purdue University, 1979; M.Sc., Iowa State University, 1981. At Cedarville since 2003.

**Timothy Hansell**, Assistant Professor of Management Information Systems. *Education:* B.S., Wright State University, 1982; M.S., The Ohio State University, 1990; ABD, Wright State University. At Cedarville since 1998.

**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.

**Sharon Johnson** (Mr.), Professor of Management. *Education:* B.S., Florida State University, 1969; M.B.A., Florida State University, 1973; D.B.A., Florida State University, 1978. At Cedarville since 1993.

**John LeBlanc**, Associate Professor of Management. *Education:* B.S., Southern Illinois University, 1974; M.B.A., Southern Illinois University, 1976. At Cedarville since 1999.

**Richard Martinez**, Associate Professor of Management. *Education:* B.S., Arizona State University, 1990; M.B.A., Baylor University, 1992; Ph.D., Texas A&M University, 2001. At Cedarville since 2005.

**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.

**Anne Rich**, Associate 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.

**David Rotman**, Director of Computer Services; Associate Professor of Management Information Systems. *Education:* B.S., Taylor University, 1968; M.A.T., Indiana University, 1972; C.D.P., Institute for Certification of Computer Professionals, 1980; Ph.D., Nova University, 1994. At Cedarville since 1984.

**Andy Runyan**, Associate Vice President for Academic Administration; Associate Professor of Management. *Education:* B.M.E., University of Dayton, 1983; M.S.M.M., GMI Engineering and Management Institute, 1993; Ph.D. Nova Southeastern University, 2000; registered professional engineer. At Cedarville since 2006.

**David Schmidt**, Associate Professor of Management. *Education:* B.S., University of Nebraska at Kearney, 1974; M.A., University of Nebraska, 1992; M.B.A., University of Nebraska, 1995; Ph.D., University of Nebraska, 2001. At Cedarville since 1998.

**Galen Smith**, Professor 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.

**Sarah Smith**, Associate Professor of Accounting. *Education:* B.A., Cedarville University, 1975; M.A., Virginia Polytechnic Institute and State University, 1976; Ph.D., Virginia Polytechnic Institute and State University, 1982. At Cedarville since 1980.

**Susan Terkelsen**, Assistant Professor of Information Technology. *Education:* B.A., Cedarville University, 1988; M.A., Miami University, 1989. At Cedarville since 1999.

**Ronald Walker**, Professor of Management Science. *Education:* B.S., Bowling Green State University, 1965; M.S., University of Michigan, 1966; D.B.A., Kent State University, 1986. At Cedarville since 1978.

**Richard Baldwin**, Professor Emeritus of Management. *Education:* B.S.E.E., Iowa State University, 1955; M.B.A., University of Dayton, 1968; L.L.B., LaSalle Correspondence University, 1973; Ph.D., The Ohio State University, 1987; President's Fellow, American Graduate College of International Management, interim, 1987. At Cedarville since 1975.

**Clifford Fawcett**, Professor Emeritus of Management. *Education:* B.S.E.E., University of Maryland, 1958; M.B.A., American University, 1970; D.B.A., George Washington University, 1976. At Cedarville since 1983.

**Kenneth St. Clair**, Associate Professor of Business. *Education:* B.S., University of Illinois, 1956; C.P.A., State of Ohio, 1962; M.S., University of Illinois, 1963; graduate study, University of Nebraska, 1964-65; Southwestern Baptist Theological Seminary, 1986-87. At Cedarville since 1959.

## Executive-in-Residence Program

The Executive-in-Residence program is designed to bring senior-level executives to campus to enrich the learning environment of undergraduate business majors, foster working relationships between business leaders and faculty, and provide faculty and staff with new ideas and perspectives on how to serve the business community.

## Business Advisory Board

The Business Advisory Board 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. Harry Badanes, J.D. Cloud & Co. LLP*

*Mr. Ronald Baker, Hi-Tech Aero Spares*

*Mr. Mike Crawford, LifePlan Financial Group, Inc.*

*Mr. John Danis, Danis Building Construction Co.*

*Mr. Ronald Ferner, Philadelphia Biblical University*

*Mr. John Field, Wallace & Turner, Inc.*

*Ms. Georgeann Georges, Culligan International*

*Miss Lori A. Greenawalt, KPMG LLP*

*Mr. George Guritz, Shepherd Financial Group, Inc.*

*Mr. Gary Habegger, Goodrich Corporation*

*Dr. Rajshekhar Javalgi, Cleveland State University*

*Dr. Wayne Leininger, Virginia Tech*

*Mr. Larry Miller, Ohio Valley Bank*

*Mr. Delmar Mohler, Faith Baptist Bible College*

*Mr. Jeffrey Montie, Kellogg Company*

*Mr. Lorne Scharnberg, KATECHO, Inc.*

*Mr. Russ Weir, IBM Global Services – ITS Public Sector*

*Mr. Randal Wilcox, Otis Elevator International, Inc.*





### Accounting

The **accounting major** prepares students for careers in private, public, and corporate accounting as well as other business-related areas.

Course requirements involve 66 semester hours including:

<i>Business Administration Core</i> .....	42
ACCT-2110, 2120 Principles of Accounting I,II .....	6
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Administrative Policy and Strategy .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
MRKT-3600 Principles of Marketing .....	3
<i>Accounting</i> .....	18
ACCT-3110 Intermediate Financial Accounting I .....	3
ACCT-3120 Intermediate Financial Accounting II .....	3
ACCT-3150 Accounting Information Systems .....	3
ACCT-3170 Managerial Accounting .....	3
ACCT-4110 Federal Income Tax .....	3
ACCT-4120 Auditing .....	3
<i>Accounting electives selected from the following</i> .....	6
ACCT-4130 Advanced Financial Accounting .....	3
ACCT-4150 Government & Non Profit Accounting .....	3
ACCT-4210 Taxation of Business Entities .....	3
ACCT-4170 Advanced Managerial Accounting .....	3
ACCT-4810 Seminar in Accounting .....	1

<i>Required cognate</i> .....	3
GMTH-1040 Calculus for Business and Social Sciences .....	3

\*Capstone Course

\*\* Satisfies mathematics for general education requirements

#### Accounting Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	49-57
Accounting Major Requirements .....	66
Required Cognate .....	3
Electives .....	2-10
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

The **CPA concentration** reflects the State of Ohio requirements of 150 semester hours of undergraduate or graduate education, including 30 hours 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 Web sites, and all addresses, can be found on the Web site of the National Association of State Board of Accountancy at [www.nasba.org](http://www.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 includes the following:

Accounting Major Requirements .....	128 hours
Other Elective Courses .....	22 hours
<b>Total .....</b>	<b>150 hours</b>

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.

ACCT-4150 Government and Nonprofit Accounting .....	3
ACCT-4210 Taxation of Business Entities .....	3
ACCT-4810 Seminar in Accounting .....	1
BUS-2100 Business Communication .....	3
BUS-3180 Business Law II .....	3

A Complete description of the general education requirements is found on page 18

#### Suggested Four-Year Curriculum for a Major in Accounting

<i>First year:</i>	
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GMTH-1040 Calculus for Business .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
Literature Elective .....	3
Physical Education Elective .....	1
<b>Total .....</b>	<b>33.5</b>
<i>Second year:</i>	
ACCT-2110,2120 Principles of Accounting I,II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
History Elective .....	3
Physical Science Elective .....	3.5
Social Science Elective .....	3
<b>Total .....</b>	<b>34.5</b>
<i>Third year:</i>	
ACCT-3110,3120 Intermediate Financial Accounting I,II .....	6
ACCT-3150 Accounting Information Systems .....	3
ACCT-3170 Managerial Accounting .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
<b>Total .....</b>	<b>30</b>
<i>Fourth year:</i>	
ACCT-4110 Federal Income Taxes .....	3
ACCT-4120 Auditing .....	3
ACCT-4130 Advanced Financial Accounting .....	3
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
MGMT-4510 Administrative Policy and Strategy .....	3
Humanities Elective .....	3
Accounting Electives .....	6
Electives .....	7
<b>Total .....</b>	<b>30</b>

#### Master's Degree Options at Other Universities

Cedarville has developed a relationship with other university MBA programs that allow qualified Cedarville University graduates to enter this program to fulfill the CPA 150-hour requirement. Students are also encouraged to investigate other MBA and Master of Science in Accounting programs that may be better suited to their specific career goals.

## Finance

The **finance major** 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 60 semester hours including:

<i>Business Administration Core</i> .....	42
ACCT-2110,2120 Principles of Accounting I,II .....	6
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Administrative Policy and Strategy .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
MRKT-3600 Principles of Marketing .....	3
<i>Finance</i> .....	18
FIN-3310 Money and Financial Markets .....	3
FIN-3730 Investments .....	3
FIN-4770 Advanced Financial Management .....	3
<i>Finance Electives selected from</i> .....	9
ACCT-3110 Intermediate Financial Accounting I .....	3
FIN-3740 Insurance .....	3
FIN-3750 International Finance .....	3
FIN-3770 Security Analysis .....	3
FIN-4710 Adv Security Analysis & Portfolio Mgmt Pract. ...	3
FIN-4750 Financial Institution Management .....	3

<i>Required cognate</i> .....	3
GMTH-1040 Calculus for Business .....	3
(Satisfies mathematics for general education requirements)	

\*Capstone Course

### Finance Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	49-57
Finance Major Requirements .....	60
Required Cognate .....	3
Electives .....	8-16
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

## International Studies – Global Economics and International Business

The **global economics and international business major** prepares students for careers in international business. Offered as a part of the University's international studies program, the major is described in detail in the interdisciplinary studies section on pg. 129.

### Suggested Four-Year Curriculum for a Major in Finance

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GMTH-1040 Calculus for Business .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
History Elective .....	3
Physical Education Elective .....	1
<b>Total .....</b>	<b>33.5</b>

#### Second year:

ACCT-2110,2120 Principles of Accounting I,II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Social Science Elective .....	3
<b>Total .....</b>	<b>34.5</b>

#### Third year:

ACCT-3110 Intermediate Financial Accounting I .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
MRKT-3600 Principles of Marketing .....	3
Major Requirements .....	6
Humanities Elective .....	3
<b>Total .....</b>	<b>30</b>

#### Fourth year:

BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
MGMT-4510 Administrative Policy and Strategy .....	3
Major Requirements .....	9
Electives .....	16
<b>Total .....</b>	<b>30</b>

A complete description of the general education requirements is found on page 18

### Information Systems

The information systems major prepares students for computer careers as programmers, systems analysts, software specialists, network administrators, and MIS directors. The curriculum follows guidelines established by the Association of Information Technology Professionals for the training of information system professionals.

Course requirements involve 66 semester hours including:

<i>Business Administration Core</i> .....	42
ACCT-2110,2120 Principles of Accounting I,II .....	6
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II.....	2
BUS-2180 Business Law.....	3
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business.....	3
BUS-3990 Professional Development.....	0
BUS-4420 Business Ethics and Social Responsibility.....	2
BUS-4990 Executive Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management.....	3
*MGMT-4510 Administrative Policy and Strategy.....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business.....	2
MRKT-3600 Principles of Marketing .....	3
<i>Information Systems</i> .....	18
MIS-2200 Fundamentals of MIS.....	3
MIS-2300 Intro to Programming .....	3
MIS-3100 Database Development .....	3
MIS-3500 Web Development .....	3
MIS-3800 System Analysis and Design.....	3
MIS-4500 System Development.....	3
<i>MIS Electives (choose from the following)</i> .....	6
MIS-3400 Data Communication and Networking.....	3
MIS-3910 Advanced Topics in MIS .....	3
MIS-4100 Advanced Database Design.....	3
MIS-4200 Advanced Topics in Programming Languages .....	3

<i>Required cognate</i> .....	3
GMTH-1040 Calculus for Business .....	3
(Satisfies mathematics for general education requirements)	

\*Capstone Course

### Information Systems Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	49-57
Information Systems Major Requirements .....	66
Required Cognate .....	3
Electives .....	2-10
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Information Systems

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GMTH-1040 Calculus for Business.....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
Humanities Elective .....	3
Physical Education Elective .....	1
Social Science Elective.....	3
<b>Total.....</b>	<b>33</b>

#### Second year:

ACCT-2110,2120 Principles of Accounting I,II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
MIS-2200 Fundamentals of MIS .....	3
MIS-2300 Introduction to Programming .....	3
Biological Science Elective .....	3.5
History Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>34.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BUS-3150 Operations Analysis.....	2
BUS-3910 International Business.....	3
BUS-3990 Professional Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
FIN-3710 Principles of Finance.....	3
MGMT-3500 Principles of Organization and Management.....	3
MRKT-3600 Principles of Marketing .....	3
MIS-3800 Systems Analysis and Design .....	3
MIS-3100 Database Development.....	3
MIS-3500 Web Development.....	3
<b>Total.....</b>	<b>33</b>

#### Fourth year:

BUS-4420 Business Ethics and Social Responsibility.....	2
BUS-4990 Executive Development.....	0
MGMT-4510 Administrative Policy and Strategy.....	3
MIS-4500 System Development .....	3
MIS Electives .....	6
Physical Science Elective .....	3.5
Electives.....	10
<b>Total.....</b>	<b>27.5</b>

### Management

The management major 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 interest, whether it be human resources management, operations management, or organizational leadership.

Course requirements involve 60 semester hours including:

<i>Business Administration Core</i> .....	42
ACCT-2110,2120 Principles of Accounting I,II .....	6
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Administrative Policy and Strategy .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
MRKT-3600 Principles of Marketing .....	3
<i>Management</i> .....	9
MGMT-3520 Production and Operations Management .....	3
MGMT-3550 Organizational Behavior .....	3
MGMT-3570 International Management .....	3
<i>Students must also choose an area of interest from the following:</i> .....	9
<i>Human Resources Management</i> .....	9
MGMT-3530 Human Resources Management .....	3
MGMT-4560 Organizational Change and Development .....	3
<i>One course from the following:</i> .....	3
COM-3260 Organizational Negotiation .....	3
COM-3330 Organizational Training .....	3
MGMT-4530 Industrial Relations Management .....	3
PSYCH-3640 Industrial/Organizational Psychology .....	3
<i>Operations Management</i> .....	9
MGMT-3560 Project Management .....	3
MGMT-4570 Advanced Operations Management .....	3
<i>One course from the following:</i> .....	3
MGMT-4520 Supply Chain Management .....	3
MGMT-4530 Industrial Relations Management .....	3
<i>Organizational Leadership</i> .....	9
COM-4060 Organizational Leadership .....	3
MGMT-4550 Advanced Organizational Behavior .....	3
<i>One course from the following:</i> .....	3
MGMT-3510 Entrepreneurship I .....	3
MGMT-3530 Human Resource Management .....	3
MGMT-3560 Project Management .....	3
MGMT-4520 Supply Chain Management .....	3
MGMT-4530 Industrial Relations Management .....	3
MGMT-4560 Organizational Change and Development .....	3
MGMT-4570 Advanced Operations Management .....	3

<i>Required cognate</i> .....	3
GMTH-1040 Calculus for Business .....	3

(Satisfies mathematics for general education requirements)

\*Capstone Course

### Suggested Four-Year Curriculum for a Major in Management

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GMTH-1040 Calculus for Business .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
History Elective .....	3
Physical Education Elective .....	1
Physical Science Elective .....	3.5
<b>Total</b> .....	<b>33.5</b>

#### Second year:

ACCT-2110,2120 Principles of Accounting I,II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BUS-2150 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
Biological Science Elective .....	3.5
Literature Elective .....	3
Social Science Elective .....	3
<b>Total</b> .....	<b>34.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
MGMT-3520 Production and Operations Management .....	3
MGMT-3550 Organizational Behavior .....	3
MGMT-3570 International Management .....	3
MRKT-3600 Principles of Marketing .....	3
Humanities Elective .....	3
<b>Total</b> .....	<b>30</b>

#### Fourth year:

BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
MGMT-4510 Administrative Policy and Strategy .....	3
Management Interest Area .....	9
Electives .....	16
<b>Total</b> .....	<b>30</b>

### Management Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	49-57
Management Major Requirements .....	60
Required Cognate .....	3
Electives .....	8-16
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

A complete description of the general education requirements is found on page 18

### Marketing

The marketing major prepares students for career opportunities in advertising, marketing management, marketing research and sales with retailers, manufacturers, financial institutions, and nonprofit organizations.

Course requirements involve 60 semester hours including:

<i>Business Administration Core</i> .....	42
ACCT-2110,2120 Principles of Accounting I,II .....	6
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Organization and Management .....	3
*MGMT-4510 Administrative Policy and Strategy .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
MRKT-3600 Principles of Marketing .....	3
<i>Marketing</i> .....	18
MRKT-3630 Marketing Research .....	3
MRKT-3650 Buyer Behavior .....	3
MRKT-4610 Marketing Strategy .....	3
Marketing Electives .....	9
<i>Required cognate</i> .....	3
GMTH-1040 Calculus for Business .....	3

(Satisfies mathematics for general education requirements)

\*Capstone Course

#### Marketing Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	49-57
Marketing Major Requirements .....	60
Required Cognate .....	3
Electives .....	8-16
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



#### Suggested Four-Year Curriculum for a Major in Marketing

##### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GMTH-1040 Calculus for Business .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
History Elective .....	3
Physical Education Elective .....	1
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>33.5</b>

##### Second year:

ACCT-2110,2120 Principles of Accounting I,II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BUS-2110 Statistics I .....	2
BUS-2120 Statistics II .....	2
BUS-2180 Business Law .....	3
ECON-2330 Microeconomics .....	3
ECON-2340 Macroeconomics .....	3
Biological Science Elective .....	3.5
Humanities Elective .....	3
Literature Elective .....	3
<b>Total .....</b>	<b>34.5</b>

##### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BUS-3150 Operations Analysis .....	2
BUS-3910 International Business .....	3
BUS-3990 Professional Development .....	0
FIN-3710 Principles of Finance .....	3
MGMT-3500 Principles of Management .....	3
MRKT-3600 Principles of Marketing .....	3
MRKT-3630 Marketing Research .....	3
MRKT-3650 Buyer Behavior .....	3
Marketing Elective .....	3
Social Science Elective .....	3
<b>Total .....</b>	<b>30</b>

##### Fourth year:

BUS-4420 Business Ethics and Social Responsibility .....	2
BUS-4990 Executive Development .....	0
MGMT-4510 Administrative Policy and Strategy .....	3
MRKT-4610 Marketing Strategy .....	3
Marketing Elective .....	6
Electives .....	16
<b>Total .....</b>	<b>30</b>

## Minors

The minors offered by the department of business administration are designed to provide a basic understanding of specific aspects of business.

### Business Administration Minor

The minor in **business administration** for the non-business major involves 18 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
ECON-2330 Microeconomics.....	3
MGMT-3500 Principles of Organization and Mgmt.....	3
MRKT-3600 Principles of Marketing.....	3
<i>Business Administration electives selected from the following</i>	
<i>2000-3000-level Business Administration Core courses.....</i>	<i>6</i>
ACCT-2120 Principles of Accounting II.....	3
BUS-2110 Statistics I.....	2
BUS-2120 Statistics II.....	2
BUS-2180 Business Law.....	3
BUS-3150 Operations Analysis.....	2
BUS-3910 International Business.....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance.....	3

### Christian Ministries Management Minor

The minor in **Christian ministries management** for the nonbusiness major involves 19 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
FIN-2730 Church Business Administration.....	3
MGMT-3500 Principles of Organization and Management.....	3
MGMT-3530 Human Resources Management.....	3
MIS-1500 Information Technology for Business.....	2
MIS-1510 Software Tools for Business.....	2
MRKT-3680 Nonprofit Marketing.....	3

### Economics Minor

The minor in **economics** involves 18 semester hours including:

ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
ECON-3310 International Money and Capital Markets.....	3
ECON-3350 Comparative Economic Systems.....	3
3000- or 4000-Level Electives in Economics.....	6

### International Business Minor

The minor in **international business for the business major** involves 18 semester hours including:

BUS-3910 International Business.....	3
<i>At least 9 hours from the following.....</i>	<i>9</i>
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade and Economics.....	3
MGMT-3570 International Management.....	3
MRKT-4620 International Marketing.....	3
<i>At least 3 hours from the following.....</i>	<i>3</i>
ANTH-1800 Cultural Anthropology.....	3
BEPH-2260 Religion and Culture.....	3
COM-3140 Intercultural Communication.....	3
POLS-3650 International Relations.....	3
<i>Additional Elective selected from courses listed above.....</i>	<i>3</i>

### International Business for the Nonbusiness major Minor

The minor in **international business for the nonbusiness major** involves 21 semester hours including:

BUS-3910 International Business.....	3
<i>At least 6 hours from the following.....</i>	<i>6</i>
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
MGMT-3500 Principles of Organization and Management... 3	
MRKT-3600 Principles of Marketing.....	3
<i>At least 6 hours from the following.....</i>	<i>6</i>
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade and Economics.....	3
MGMT-3570 International Management.....	3
MRKT-4620 International Marketing.....	3
<i>Additional Electives selected from courses listed above.....</i>	<i>6</i>

### Informations Systems Minor

The minor in **information systems** involves 22 semester hours including:

ACCT-2110 Principles of Accounting I.....	3
MGMT-3500 Principles of Organization and Management.....	3
MIS-1500 Information Technology for Business.....	2
MIS-1510 Software Tools for Business.....	2
MIS-2200 Fundamentals of MIS.....	3
MIS-2300 Introduction to Programming.....	3
MIS-3100 Database Design.....	3
MIS-3800 System Analysis and Design.....	3



Students develop greater awareness of international marketing and economics through co-curricular activities and presentations.

### Course Descriptions

#### Accounting

**ACCT-2110 Principles of Accounting I**—Fa, Sp **3 hours**

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 I*.

**ACCT-3150 Accounting Information Systems**—Fa **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*; MIS-1500 *Information Technology for Business*; junior status.

**ACCT-3170 Managerial Accounting**—Sp **3 hours**

Principles of industrial and distribution cost accounting, job order and process cost systems, and standard costs. *Prerequisite:* ACCT-2120 *Principles of Accounting II*.

**ACCT-4110 Federal Income Taxes**—Fa **3 hours**

Proper preparation of federal income tax returns for individuals, partnerships, and corporations. Students are introduced to income tax planning and the effect of income taxes on business decisions. *Prerequisite:* ACCT-2120 *Principles of Accounting II*.

**ACCT-4120 Auditing**—Fa **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 Government and Nonprofit Accounting**—Fa **3 hours**

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 multi-state taxation of corporations. *Prerequisite:* ACCT-4110 *Federal Income Taxes*.

**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 1410-Topics in Business**—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.

**BUS-2100 Business Communication**—Fa **3 hours**

Instruction for writing business letters, memos, and business reports. Oral business presentations, small group communication, and the communication process in general are also discussed. *Prerequisite:* ENG-1400 *Composition*.

**BUS-2110 Statistics I**—Fa, Sp **2 hours**

An introduction to statistical methods used in business decision making, including descriptive statistics, probability, probability distributions, estimation, and hypothesis testing. *Prerequisite:* GMTH-1040 *Calculus for Business*

**BUS-2120 Statistics II**—Fa, Sp **2 hours**

An extension of Statistics I to include tests of hypothesis, analysis of variance, chi-square, simple and multiple regression models. *Prerequisite:* BUS-2110 *Statistics I*

**BUS-2180 Business Law I**—Fa, Sp **3 hours**

A study of the legal business law environment, contracts, sales, bailments, and property.

**BUS-3150 Operations Analysis**—Fa, Sp **2 hours**

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. *Prerequisites:* BUS-2120 *Statistics II*; junior status.

**BUS-3180 Business Law II**—Sp **3 hours**

A study of employee law, negotiable instruments, agency, partnership corporations, insurance, and will. *Prerequisite:* BUS-2180 *Business Law I*.

**BUS-3280 Entrepreneurship and Service Practicum**—Fa **3 hours**

In this course, students will apply concepts from the corequisite courses in which they are enrolled to their own start-up business ventures and to community service projects. Students in the class will form a 30 to 35 person company. Each company will develop a plan of organization to form and operate a business for the semester, as well as an organizational and operating plan to complete a community service project. *Prerequisites:* MIS-1500; MIS-1510; ACCT-2110; ACCT-2120; BUS-2120; BUS-2180; ECON-2330; ECON-2340. *Corequisites:* MRKT-3600; MGMT-3500; FIN-3710 (*Blocked courses*).

**BUS-3400 Independent Study in Business Administration**—Fa,Sp,Su **1-3 hours**

Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing.

**BUS-3410 Topics in Business**—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.

# Business Administration

## School of Social Sciences and Professional Studies

### **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-3910 International Business—Fa, Sp** 3 hours

To give a global perspective of the business environment, international business terms are defined and the interactions of the various actors, firms, institutions, countries, and groups of countries are developed. An environmental approach including both cultural and financial perspectives develops a broad view of the world economy.

### **BUS-3990 Professional Development—Fa, Sp** 0 hours

A program of activities that prepares students to investigate career alternatives and initiate a job search strategy. Junior business majors are required to maintain enrollment in this program for both semesters of their junior year. (Fee: \$30)

### **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 class 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 class 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.

### **BUS-4990 Executive Development—Fa, Sp** 0 hours

A program of professional development activities that prepares students to move into a corporate environment. Senior business majors are required to maintain enrollment in this program during both semesters of their senior year. (Fee: \$20)

#### Economics

### **ECON-2330 Microeconomics—Fa, Sp** 3 hours

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-3130 Government and Business—Sp** 3 hours

A study of the governmental agencies and their effect on American business. Case studies and current events are developed to show the trends and status of various laws and regulations. The economic impact and difficulties that arise in managing a business are reviewed. *Prerequisite: ECON-2330 Microeconomics.* (odd years)

### **ECON-3310** 3 hours

#### **International Money and Capital Markets—Sp**

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. *Prerequisite: ECON-2340 Macroeconomics 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.* (even years)

### **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-2340 Macroeconomics or permission of instructor.* (odd years)

### **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-3370 Labor Economics—Sp** 3 hours

An examination of the role of unions and the labor market in a free enterprise system. Emphasis is given to the impact of unions as a social institution in the collective bargaining process. Labor legislation and the labor movement are studied from both a historical and current perspective. *Prerequisite: ECON-2330 Microeconomics.* (even 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-2340 Macroeconomics or permission of instructor.*

### **ECON-3390 Public Finance—Sp** 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. *Prerequisite: ECON-2340 Macroeconomics.* (odd years)

#### End-User Information Systems

### **EUIS-1000** 3 hours

#### **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: MIS-1510 Software Tools for Business.*



**EUIS-2200 Desktop Publishing** **2 hours**

Writing, assembling, and designing publications commonly found in businesses, such as newsletters, brochures, reports, and promotional materials using PageMaker software.

**Finance**

**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 towards 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—Sp** **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**

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. *Prerequisite: ECON-2340 Macroeconomics or permission of instructor.*

**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-2120 Statistics II.*

**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-3740 Insurance—Sp** **3 hours**

An overview of the insurance industry and various insurance products. Insurance is described theoretically and practically as a tool for risk management in the areas of life, health, property, and other insurable categories. *Prerequisites: FIN-3710 Principles of Finance or FIN-1710 Personal Finance.*

**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 & risk, exchange risk management, and other financial management issues relative to the multinational firm. *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: \$50)*

**FIN-4700 Seminar in Finance—Fa,Sp** **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-4750 Financial Institution Management—Sp** **3 hours**

An integrated and comprehensive analysis of the management of financial institutions considering the unique problems faced by each type of institution. *Prerequisite: FIN-3710 Principles of Finance. (Fee: \$20)*

**FIN-4770 Advanced Financial Management—Fa** **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. *Prerequisites: FIN 3710 Principles of Finance; ACCT 3110 Intermediate Financial Accounting I.*

**Management**

**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 Entrepreneurship I—Fa** **3 hours**

This course will introduce students to small business and entrepreneurship. Topics will include personal characteristics of entrepreneurs, issues involving the uniqueness of family businesses, what small business owners can expect, the difference between a small business and entrepreneurial business, an overview of business models, an introduction to finding and/or evaluating a business opportunity, and the operational basics of starting and running a small or entrepreneurial business.

**MGMT-3511 Entrepreneurship II—Sp** **3 hours**

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.



# Business Administration

## School of Social Sciences and Professional Studies

### **MGMT-3512 Entrepreneurship III–Sp 3 hours**

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 I*

### **MGMT-3514 Entrepreneurship V–Fa, Sp 3-12 hours**

This course will be a practicum for SB&E 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 during the SB&E program. In addition, since each experience is unique, it can be taken more than once for up to 12 semester hours. *Prerequisite: Permission of instructor.*

### **MGMT-3520 Production and Operations Management–Fa, Sp 3 hours**

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-2120 Statistics II; MGMT-3500 Principles of Organization and Management; or permission of instructor.*

### **MGMT-3530 Human Resources Management–Fa, 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–Sp 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 hours**

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-4510 Administrative Policy and Strategy–Fa, Sp 3 hours**

Strategic issues faced by organizations are analyzed in a comprehensive manner. Skills in strategic analysis are developed through lectures and from diverse industries, nonprofit, and quasi-

public institutions. Open only to seniors in business administration within 2 semesters of graduation. Capstone course. *Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.*

### **MGMT-4520 Supply Chain Management–Sp 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-2120 Statistics II; MGMT-3520 Production and Operations Management.*

### **MGMT-4530 Industrial Relations Management–Sp 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-4550 Advanced Organizational Behavior–Sp 3 hours**

This is an advanced course about managing people and organizations at the dawn of the 21st century, intended for seniors who will soon face the challenge of leadership and influence in their respective workplaces. This course will integrate many of the most salient OB topics in today’s volatile workplace environment. *Prerequisite: MGMT-3550 Organizational Behavior or permission of instructor.*

### **MGMT-4560 Organizational Change and Development–Fa 3 hours**

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 Advanced 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 and value-stream mapping. *Prerequisite: MGMT-3520 Production and Operations Management or permission of instructor.*

### **Information Systems**

#### **MIS-1500 Information Technology for Business–Fa, Sp 2 hours**

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.

#### **MIS-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)

#### **MIS-2200 Fundamentals of MIS–Fa 3 hours**

This course is an introduction to the field of Management Information Systems (MIS). It is a demanding course that takes students through the process of developing an information system. While working through this process, students will be

introduced to the primary topics and techniques used in MIS. Case study is the primary method used in teaching the course. Gateway course to the MIS major.

**MIS-2300 Introduction to Programming–Sp 3 hours**

Intended as the first programming course for MIS majors, this course will introduce the student to the process of programming and to the syntax and usage of the Java 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: MIS-2200 Fundamentals of MIS (Fee: \$20)

**MIS-3100 Database Development–Fa 3 hours**

This course teaches students database fundamentals while providing a broad survey of the field's major topics. Students learn information systems and the critical nature of databases within IS contexts. Topics include storage & retrieval, data modeling, logical & physical design, relational and object-oriented databases, data warehousing, databases and the internet, and data security. Students apply essentials by creating, exercising, and administering databases. Prerequisite: MIS-2200 Fundamentals of MIS. (Fee: \$20)

**MIS-3300 Advanced Topics in Programming Languages–Sp 3 hours**

Advanced concepts in programming and programming languages using one or more programming languages. Theories of program design and implementation. Some discussion of the design of programming languages and the comparison of strengths and weaknesses in performing different types of tasks. Prerequisite: MIS-2300 Introduction to Programming. (Fee: \$20)

**MIS-3400 Data Communications and Networking–Fa 3 hours**

A study of the basic concepts of data and voice communications and current networking technology. 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: MIS-2200 Fundamentals of MIS or permission of instructor. (Fee: \$50)

**MIS-3500 Web Development–Sp 3 hours**

This course will expose students to the process of developing information systems for the World Wide Web. The focus will be on advanced Web page creation including dynamic content, scripting, applets and server issues. Prerequisite: MIS-2200 Fundamentals of MIS.

**MIS-3800 Systems Analysis and Design–Sp 3 hours**

Provides an understanding of the duties of the systems analyst together with an understanding of the specific methods and techniques for conducting a systems project from its preliminary investigation through its systems implementation and evaluation. Prerequisite: MIS-3100 Database Development.

**MIS-3910 Advanced Topics in MIS–Fa,Sp 3 hours**

This course heading covers a variety of MIS 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.

**MIS 4100 Advanced Database Design–Sp 3 hours**

This course is a systematic study of the use of databases in dynamically generated Web pages in e-commerce systems. The course focuses on the integration of database management systems and other software such as CRM, ERP, and supply chain management systems in the design and development of scalable E-commerce systems. Prerequisites: MIS-3100 Database Development; MIS-3500 Web Development. (Fee: \$20)

**MIS-4500 System Development–Sp 3 hours**

Students hone their skills of analysis, design, and project management as they work in teams to develop IT projects that

solve real-world problems proposed by end-users both inside the University and in outside organizations. The projects usually encompass aspects of system analysis, user-interface design, database development, Web development, end-user training, documentation, and presentation to customers. Capstone course. Prerequisites: MIS 3500-Web Development; MIS-3800 System Analysis and Design

**Marketing**

**MRKT-3600 Principles of Marketing–Fa, Sp 3 hours**

Survey of the marketing function in the business environment; product, price, promotion, and distribution as well as consumers organizations; service, nonprofit, and international markets. 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**

Role of market research in marketing development. Decision making in an atmosphere of uncertainty. Determination of hypotheses. Planning research designs: survey, observational, experimental, and simulation. Execution of survey design: questionnaire construction, sample design, interviewing, tabulation, analysis, interpretation of results, and presentation. Prerequisite: MRKT-3600 Principles of Marketing.

**MRKT-3650 Buyer Behavior–Sp 3 hours**

Introduction to the psychological, sociological, cultural, and economic determinants of consumer behavior. Emphasis on exploration of various concepts and theories for the purpose of building understanding and providing an exposure to a variety of viewpoints. Prerequisite: MRKT-3600 Principles of Marketing.

**MRKT-3660 Promotion Strategy–Fa 3 hours**

Advertising as a tool in marketing management. Decision making relative to market analysis. Media selection, budgeting, production and layout, and measurement of effectiveness. Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.

**MRKT-3670 Business to Business Marketing–Fa 3 hours**

A study of the industrial market sector, which includes buying behavior, applied demand analysis, and segmentation techniques. Designed to provide the student with decision-making capabilities for use in the industrial setting. Prerequisite: MRKT-3600 Principles of Marketing.

**MRKT-3680 Nonprofit Marketing–Fa 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**

Designed to act as an introduction to the field of service-oriented business concerns and their subsequent marketing.

**MRKT-4610 Marketing Strategy–Sp 3 hours**

Computer simulation will be used to acquaint the senior marketing student in a realistic fashion to a variety of marketing situations and allow "hands-on" solutions to be implemented and tested. Prerequisites: senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing.

**MRKT-4620 International Marketing–Fa 3 hours**

An intensive investigation of the problems, regulations, and challenges facing U.S. manufacturers seeking to expand their markets to countries abroad. Prerequisite: MRKT-3600 Principles of Marketing.

## Mission Statement

The Cedarville University Department of Communication Arts 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:

1. To achieve excellence in communication skills and critical thinking.
2. To foster a desire for knowledge and an enthusiasm for creative expression.
3. To aid students in formulating problem-solving techniques in applied contexts.
4. To encourage the evaluation of performance-based communication as a reflection of culture.
5. To develop innovative leaders for positions in media, politics, business, and entertainment.

## Personal Requirements

Students planning to pursue a major in communication arts 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

All students in the department take Introduction to Communication Arts as the entry course in the major. Within each specific program of study, students complete classes in the history, theory, research, and ethics of their particular field of communication. Majors are required to complete a senior capstone project in research, production, internship, or performance 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 the electronic media.

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

The computer network provides tools and resources for public speaking, debate, and forensics.

## Programs of Study

The department of communication arts offers the following programs of study:

### Majors

- Communication Studies
- Electronic Media
- Theatre

### Minors

- Comprehensive Communication
- Electronic Media
- Organizational Communication
- Theatre

## Co-Curricular Opportunities

### Alpha Beta Phi

Alpha Beta Phi is the Cedarville University chapter of the national honorary theatre organization, Alpha Psi Omega. The organization stimulates interest in theatre activities at the University and provides a forum for social interaction among students.

### Debate

The Cedarville University Debate Team successfully competes with colleges and universities across the United States. Cedarville's debaters are competitively ranked within the National Parliamentary Debate Association, the largest debate league in the country. Students with a competitive edge who plan to pursue leadership careers such as ministry, law, education, business, or politics are encouraged to contact the debate coach, Dr. Rebecca Sietman.

### Forensics

Forensics is intercollegiate speech competition, including events in public speaking, oral interpretation, limited preparation events, and Lincoln-Douglas debate. For the past 20 years, Cedarville has earned top rankings on both the state and national level. In recent years, Cedarville has been state champions in Ohio and national champions among Christian colleges and universities. Contact Professor Matthew Moore for audition information. Scholarships are available.

### Lamda Pi Eta

Lamda Pi Eta is the National Communication Honor Society for undergraduate students. It recognizes, fosters, and rewards outstanding scholastic achievement. In addition, Lamda Pi Eta promotes and encourages professional development among majors, while providing an opportunity to discuss and exchange ideas in the field of communication.

### Miriam Maddox Forum

The Miriam Maddox Forum is an honorary alumni society of the department of communication arts for alumni and graduating seniors with a continuing interest in communication within the public sphere.

### Society for Human Resource Management

Communication arts majors interested in organizational communications and human resources are encouraged to join the Cedarville University chapter of the Society for Human Resource Management (SHRM). SHRM members investigate the field of human resources by developing their own human resource management programming and activities and by attending other professional human resource meetings and conferences.

### Theatre

Each semester the communication arts department presents a major theatrical production. In recent years the department has produced *All My Sons*, *Wait Until Dark*, *A Midsummer Night's Dream*, *Arsenic and Old Lace*, *A Doll's House*, and *Romeo and Juliet*. Performances are often sold out and always greatly appreciated by the University family as well as many community guests.

### U99.5

Students of all majors interested in applying and developing their skills in electronic media are encouraged to join the staff of U99.5, the University's student radio station. Students are involved in planning, programming, and managing the station. Students enjoy a fun working environment and a large, responsive audience, just as a professional radio station. Popular programs, music, and personalities have made this station a favorite part of campus life at Cedarville.

## Career Opportunities

Careers in communications are varied and vast. Graduates in the communications studies major excel in careers in public relations, personnel management, communication consulting, media communication, political communication, cross-cultural communication, and corporate education training.

Students who choose to major in electronic media receive excellent training for careers in audio and video production, station management, digital media production, journalism, interactive media design, and management.

The theatre program prepares students for a variety of careers in different aspects of drama and professional theatre. The program allows students to prepare for jobs in acting and directing or for opportunities in theater design, technology, and management. Graduates not only find employment options for these positions in the arts but also in social, educational, and ministry contexts.

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
- Arts administrator
- 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
- Public information officer
- Publications editor
- Publicist
- Radio talk-show host
- Recording company executive
- Sales/Marketing Rep.
- Seminar leader
- Sports announcer
- Theatre director

## Faculty

**Charles W. Elliott, Chairman:** Professor of Communication Arts. *Education:* B.A., Cedarville University, 1977; M.A., Temple University, 1984; Ph.D., Temple University, 1994. At Cedarville since 2003.

**J. Wesley Baker,** Distinguished Professor of Communication Arts. *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.

**Rebecca M. Baker,** Assistant Professor of Communication Arts. *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-present.

**Robert L. Clements,** Assistant Professor of Communication Arts. *Education:* B.A., Bob Jones University, 1970; M.Ed., Wright State University, 1983; graduate study - The Ohio State University, 2002. At Cedarville since 2003.

**Derrick L. Green,** Assistant Professor of Communication Arts, Assistant Director of Forensics. *Education:* B.A., Cedarville University, 1997; M.A., Miami University, 1999. At Cedarville since 2002.

**Clark Greer,** Associate Professor of Communication Arts. Media Research. *Education:* B.A., Los Angeles Baptist College, 1978; M. Div., Northwest Baptist Seminary, 1981; M.A., University of Southern California, 1985; Ph.D., Bowling Green State University, 2000. At Cedarville since 1999.

**Deborah B. Haffey,** Professor of Communication Arts. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1969; Ph.D., The Ohio State University, 2002. At Cedarville since 1986.

**Clifford L. Johnson,** Professor of Communication Arts. *Education:* B.Ed., Western Washington University, 1949; M.Ed., Western Washington University, 1953; D.Ed., University of Washington, 1962. At Cedarville since 1962.

**James L. Kragel,** Associate Professor of Communication Arts. *Education:* B.S., Mankato State University, 1977; M.A., Wheaton College, 1984. At Cedarville since 1994.

**James O. Leightenheimer,** Associate Professor of Communication Arts. *Education:* B.A., Cedarville University, 1980; M.A., Ohio University, 1989. At Cedarville since 1982.

**J. Michael López,** Professor of Communication Arts. *Education:* B.A., Bob Jones University, 1972; M.A., Bob Jones University, 1975; Ph.D., The Ohio State University, 1985. At Cedarville since 1984.

**Mischelle L. McIntosh,** Assistant Professor of Communication Arts. 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.

**Diane A. Merchant,** Professor of Communication Arts. *Education:* B.A., Cedarville University, 1978; post-graduate 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.

**Matthew M. Moore,** Assistant Professor of Communication Arts. Director of Forensics. *Education:* B.A., Cedarville University, 1992; M.A., Miami University, 1997. At Cedarville since 1998.

**Kurt D. Moreland,** Associate Professor of Communication Arts. *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 R. Phipps,** Professor of Communication Arts. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1970; Ph.D., The Ohio State University, 1975. At Cedarville since 1968.

**Rebecca M. Sietman,** Assistant Professor of Communication Arts. Debate Coach. *Education:* B.A., Cedarville University, 1999; M.A., The Ohio State University, 2002. Ph.D., The Ohio State University, 2005. At Cedarville since 2003.

**Margaret S. Wheeler,** Assistant Professor of Communication Arts. *Education:* B.A., Cedarville University, 1964; M.Ed., Central State University, 1998. At Cedarville since 1995.

### Technical Support Staff

**Donald N.C. Jones,** Designer and Technical Director. *Education:* B.A., Bob Jones University, 1973; graduate studies: Tennessee Temple University, 1974-76; Oxford University (England), 1977; University of the South, 1983; Rhode Island School of Design, 2002. At Cedarville since 1984.

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

**David G. Bastress,** Electronic Media Technician. *Education:* Practical Bible Training School, 1970; John Brown University, 1980. At Cedarville since 2002.

## Communication Studies

The **communication studies major** prepares students for careers in public relations, personnel management, consultancy programs, media communications, and corporate executive training. Because excellent communication skills are important in many professions, this major has also been chosen by those pursuing careers in sales or politics. It also serves as excellent preparation for those planning additional graduate professional training such as law, theology, and business.

Graduating seniors in communication arts culminate their program of study with an individualized senior project under the direction of a faculty member. This project may take the form of a senior thesis, senior performance, or internship. The senior thesis emphasizes research and writing with a public presentation of the research findings. The senior performance is available to those communication studies students who have taken a theatre minor as listed below. The internship is a capstone for those studying in the political communication concentration and requires documentation of the experience with integration of the coursework.

Course requirements involve 48 semester hours, including 24 semester hours in core requirements and 24 semester hours in an area of concentration chosen with the advice of the student's academic advisor. An additional 16 hours in specific courses are required if the student performs a recital.

Course requirements involve 48 semester hours including:

<i>Core requirements</i> .....	24
COM-1000 Introduction to Communication Arts .....	3
COM-2000 Persuasive Theory .....	3
COM-2050 Communication Theory .....	3
COM-2200 Communication in Applied Contexts .....	2
COM-2220 Research in Communication.....	3
COM-3100 Advanced Public Speaking .....	3
COM-3240 Interpersonal Communication .....	2
COM-4810 Research Pre-Seminar .....	2
<i>One of the following</i> .....	3
*COM-4820 Senior Research Project .....	3
*COM-4840 Senior Project in Theatre Performance.....	3
*COM-4900 Internship in Communications.....	3
<i>The following electives are required as senior recital prerequisites for Senior Project in Theatre Performance</i> .....	17
THTR-1230 Voice and Diction .....	3
THTR-1410 Introduction to Theatre.....	3
THTR-1430 Stage Movement.....	2
THTR-2350 Principles of Play Directing .....	3
THTR-2410 Advanced Performance Techniques .....	3
THTR-2430 Principles of Acting .....	3
<i>Concentration</i> .....	24

\*Capstone Course

### Senior Capstone

This project would require students to identify a current communication challenge, analyze the role of the media in this area, and develop an innovation or solution with rationale.

## Concentrations

Students should select a concentration by the end of the sophomore year from the following:

- Comprehensive Communication
- Intercultural Communication
- Media Communication
- Organizational Communication
- Political Communication

Concentration requirements may be adjusted to the needs of individual students with the written permission of the department chairman.

## Comprehensive Communication Concentration

This unique concentration of study is designed to allow students to work closely with a faculty advisor to create an educational program that fits their life goals. After completing foundational courses in communication, students select from electives within the communication arts department or from other departments to build a course of study tailored to their specific career objectives.

<i>Comprehensive communication concentration</i> .....	24
COM-4110 History of Public Address .....	3
COM-4120 Contemporary Rhetoric.....	3
COM-4810 Research Pre-Seminar .....	2
COM-4830 Research Post Seminar .....	0
<i>Electives*</i> .....	16

\*Electives may be selected from courses within the department or from other departments to meet the specific life goals of the student, and must be approved by the department chairperson and the student's advisor.

## Intercultural Communication Concentration

The intercultural communication concentration was developed with the awareness that there is a need to educate communication professionals to be competent in diverse cultural contexts. It has been structured to provide students with the opportunity to obtain a strong foundation in intercultural communication as an academic field; understand the research methods needed to answer questions and solve problems related to this area of study; apply their program of study in a supervised cultural immersion experience; and evaluate multicultural issues and integrate their understanding of the field and their responsibility within it in the context of a Christian worldview.

<i>Intercultural communication concentration</i> .....	24
COM-2140 Intercultural Communication .....	3
PYCH-3740 Qualitative Research .....	3
COM-3710 Communication and Cultural Literacy .....	3
<i>*Immersion Requirement</i> .....	3
COM-3790 Cultural Immersion Clinic .....	3
(or one semester study abroad.....)	3

*During the freshman or sophomore year, select at least one course from the following*..... 3

PYCH-1800 Cross Cultural Psychology.....	3
SOC-2300 Principles of Sociology.....	3

*During the junior or senior year select remaining elective courses from the following*..... 9-12

ART-3310 Art History 1 .....	3
ART-3320 Art History 2 .....	3
BEPT-3470 Cross-Cultural Ministry .....	3
BEPT-3510 Introduction to Urban Ministry.....	3
COM-2300 Voices of Diversity.....	3
COM-3150 Gender, Politics, and Communication .....	3
HLMU-2100 Jazz History: Music of the Multi-Culture .....	3
HLMU-3400 Global Music.....	3
THTR-2510 Theatre and Social Change .....	3

\*All immersion requirements must be completed in a cultural context different from the student's culture of origin and are subject to approval by the department chairperson and the student's advisor.

Other electives may be included to meet specific academic goals of the student, and must be approved by the department chair and the student's advisor.

## Media Communication Concentration

Media concentration offers a new approach to the study of media that prepares students to lead media innovations, solve new problems, and address the unique challenges of convergent mediated communication. Students are taught to cultivate a unique approach to mediated communication that develops skills in creative problem-solving techniques, innovative adaptation of media forms and formats, and positive leadership.

<i>Media communication concentration</i> .....	24
COM-2510 Media History.....	3
COM-3120 Argumentation and Debate.....	3
(or COM-4060 Organization Leadership.....)	3)
COM-3220 Visual Communication.....	3
COM-3840 Media Analysis.....	3
EMTC-4155 Image and Word in a Visual Culture.....	3
EMTC-4610 Media Convergence.....	3
<i>*Electives</i> .....	6

\*Electives may be selected from courses within the department or from other departments to meet the specific life goals of the student, and must be approved by the department chairman and the student's advisor.

### Organizational Communication Concentration

Students in the organizational communication concentration study processes of human interaction within organizational settings. The curriculum provides opportunities for students to explore decision-making and problem-solving in corporate contexts, training and development processes, interviewing and discussion methods, conflict resolution, and negotiation techniques. This program prepares students for careers in corporate communication, marketing/sales, public relations, and human resources by providing a sound foundation in organization and the skills needed to communicate effectively in a variety of communication contexts.

<i>Organizational communication concentration</i> .....	24
COM-3230 Organizational Communication.....	3
COM-3250 Interviewing.....	3
COM-3330 Organizational Training.....	3
COM-4060 Organizational Leadership.....	3
MGMT-3500 Principles of Organization and Management.....	3
MGMT-3530 Human Resources Management.....	3
<i>Electives selected from the following:</i> .....	6
COM-2230 Group Discussion.....	2
COM-2320 Theories of Mass Media.....	3
COM-3120 Argumentation and Debate.....	3
COM-3260 Organizational Negotiation.....	3
COM-4110 History of Public Address.....	3
COM-4610 Communication Ethics.....	2
COM-4640 Special Topics.....	2-3
COM-4720 Independent Study: Organizational Communication.....	1-3
COM-4900 Internship in Communication.....	3-12
ENG-3110 Style and Mechanics for Writers.....	3
MGMT-3550 Organizational Behavior.....	3
TPC-3090 Technical Marketing Communication.....	3

### Political Communication Concentration

The political communication concentration provides students with a solid foundation to meet the diverse requirements of communication professionals in local, state, and national political contexts. This area of study begins with the fundamentals of political communication, then moves to develop proficiency in speech writing and constituent relations. The coursework is designed to stimulate problem-solving, leadership development, and critical thinking in political contexts. An important part of the curriculum is understanding the nature and implications of diversity in American society to enable students to communicate effectively and responsibly.

<i>Political communication concentration</i> .....	24
COM-2820 Political Communication.....	3
COM-3120 Argumentation and Debate.....	3
COM-3150 Gender, Politics, and Communication.....	3
COM-3810 Political Speechwriting.....	3
COM-4210 Public Opinion and Polling.....	3

<i>Electives selected from the following:</i> .....	9
COM-2140 Intercultural Communication.....	3
COM-3220 Visual Communication.....	3
COM-4060 Organizational Leadership.....	3
COM-4610 Communication Ethics.....	2
COM-2300 Voices of Diversity.....	3
COM-4120 Contemporary Rhetoric.....	3
POLS-2100 American Political Institutions.....	3

### Communication Studies Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements.....	49-60
Communication Arts Major Requirements.....	44
Electives.....	24-35
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Communication Studies

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1000 Introduction to Communication Arts.....	3
COM-1100 Fundamentals of Speech.....	3
COM-2200 Communication in Applied Contexts.....	2
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
Biological Science Elective.....	3.5
History Elective.....	3
Literature Elective.....	3
Physical Education Activity Elective.....	1
<b>Total</b> .....	<b>34.5</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
COM-2000 Persuasive Theory.....	3
COM-2050 Communication Theory.....	3
COM-2220 Research in Communication.....	3
Communication Arts Major Concentration Courses.....	8
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Total</b> .....	<b>32.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
COM-3100 Advanced Public Speaking.....	3
COM-3240 Interpersonal Communication.....	2
COM-4810 Research Pre-Seminar.....	1
Communication Arts Major Concentration Courses.....	8
Electives.....	12
<b>Total</b> .....	<b>30</b>

#### Fourth year:

COM-4110 History of Public Address.....	3
(or another Humanities elective.....)	3)
COM-4820 Senior Research Project.....	3
(or COM-4840 Senior Project: Recital.....)	3)
(or COM-4900 Internship in Communication.....)	3)
COM-4830 Research Post-Seminar.....	0
Communication Arts Major Concentration Courses.....	6
Electives.....	19
<b>Total</b> .....	<b>31</b>

## Electronic Media

The **electronic media 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 (radio and non-broadcast audio), video production (television and non-broadcast video), management/sales (covering the business side of the field), and interactive media (online and computer-based media).

Internships are strongly recommended but are dependent upon availability and placement.

Course requirements involve 53 semester hours including:

<i>Core Requirements</i> .....	32
COM-1000 Introduction to Communication Arts .....	3
COM-2320 Theories of Mass Media .....	3
EMTC-1110 Introduction to Electronic Media .....	3
EMTC-1120 Audio Production .....	3
EMTC-2110 Video Technical Training.....	3
EMTC-2130 Writing for Electronic Media .....	3
EMTC-3111 Survey Research for Electronic Media .....	3
(or EMTC-3112 Content Research for Electronic Media.....)	3
EMTC-3150 Electronic Media Ethics.....	2
EMTC-3151 Christian Approaches to Electronic Media .....	2
EMTC-4110 Electronic Media Law and Regulation .....	3
EMTC-4810 Senior Seminar .....	1
<i>Select one of the following, with approval of faculty</i> .....	3-12
*EMTC-4920 Senior Project.....	3
EMTC-4930 Electronic Media Internship .....	3-12
<i>Concentration selected from the following</i> .....	21

<i>Audio concentration</i> .....	21
EMTC-1210 Media Performance .....	3
EMTC-3210 Advanced Audio Production.....	3
EMTC-3410 Electronic Media Sales .....	3
EMTC-3720 Audio Production Practicum (1 hour each; 3 hours required).....	3
THTR-1410 Introduction to Theatre.....	3
THTR-2410 Fundamentals of Oral Interpretation .....	3
THTR-2430 Principles of Acting.....	3

<i>Interactive media concentration</i> .....	21
ART-1100 Introduction to Art.....	3
(or COM-3220 Visual Communication.....)	3
EMTC-2061 Proficiency in HTML .....	0
EMTC-2062 Proficiency in Photoshop.....	0
EMTC-2063 Proficiency in Illustrator .....	0
EMTC-2610 Preproduction Planning .....	3
EMTC-3061 Proficiency in Flash .....	0
EMTC-3062 Proficiency in Director.....	0
EMTC-3065 Proficiency in Maya .....	0
EMTC-3410 Electronic Media Sales .....	3
EMTC-3610 Visual Design for Electronic Media .....	3
EMTC-3630 Principles of Computer Animation .....	3
EMTC-4610 Media Convergence .....	3
<i>Practica – three hours selected from the following</i> .....	3
*EMTC-3761 Interactive Media Practicum .....	1
*EMTC-3765 Animation Practicum .....	1

<i>Management/Sales concentration</i> .....	21
COM-3230 Organizational Communication .....	3
COM-4060 Organizational Leadership .....	3
EMTC-3410 Electronic Media Sales .....	3
EMTC-3420 Electronic Media Management.....	3
EMTC-3741 Sales and Management Practicum (1 hour each; 3 hours required).....	3
MGMT-3500 Principles of Organization and Management..	3
MRKT-3600 Principles of Marketing .....	3

<i>Video concentration</i> .....	21
COM-3220 Visual Communication.....	3
EMTC-1210 Media Performance .....	3
EMTC-2610 Preproduction Planning .....	3
EMTC-3310 Advanced Video Production .....	3
<i>**Practica – three hours selected from the following</i> .....	3
*EMTC-3731 Video Production Practicum .....	1
*EMTC-3732 Directing Practicum.....	1
*EMTC-3733 Sports Production Practicum .....	1
<i>Electives selected from the following:</i> .....	5
EMTC-2310 Introduction to Photography .....	2
EMTC-3330 Screenwriting.....	2
EMTC-3350 Documentary Film .....	2
EMTC-3360 Documentary Film-style Production I .....	3
EMTC-3370 Documentary Film-style Production II .....	2
EMTC-3410 Electronic Media Sales.....	3
EMTC-4310 Film-Style Production .....	2

\*Capstone Course

\*\*Students may add up to 2 additional practica hours.

+Repeatable



A complete description of the general education requirements is found on page 18

### Electronic Media Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	52-60
Electronic Media Major Requirements.....	53
Electives .....	15-23
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Electronic Media Advisory Board

The EMTC Advisory Board provides input on the development of the EMTC majors and an assessment of the program's courses and facilities to ensure that students are being prepared for a career in the field. Current Board members\* include:

- Ben Barrett, Association of Baptists For World Evangelism*
- Jay Benson, WHIZ Media Group*
- Ruth Bliss, Mission Network News*
- R. Todd Carter, Ginghamburg Church*
- Dan Craig, WRFD, Salem Media*
- Bill DeWees, WONU*
- Bob Lepine, Family Life Today*
- Dusty Rhodes, WAY-FM Media Group*
- Dave Samuel, Focus on the Family*
- Josh Snyder, Media and Entertainment Entrepreneur*
- Shelly Stock, Freelance Television Producer*
- Paul Yuen, Gospelcom International*

\*Organizational affiliation cited for identification only



Real-life field assignments provide multimedia and broadcasting students with valuable knowledge and experience.

### Suggested Four-Year Curriculum for a Major in Electronic Media

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1000 Introduction to Communication Arts .....	3
COM-1100 Fundamentals of Speech.....	3
EMTC-1110 Introduction to Electronic Media.....	3
EMTC-1120 Audio Production.....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
History Elective .....	3
<b>Total.....</b>	<b>34.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
COM-2320 Theories of Mass Media .....	3
EMTC-2110 Video Technical Training.....	3
EMTC-2130 Writing for Electronic Media.....	3
EMTC-XXXX Concentration Requirements and Electives.....	9
Physical Education Activity Elective.....	1
Physical Science Elective .....	3.5
Quantitative Elective .....	3
<b>Total.....</b>	<b>31.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
EMTC-3111 Survey Research for Electronic Media.....	3
(or EMTC-3112 Content Research for Electronic Media .....	3)
EMTC-3150 Electronic Media Ethics .....	2
EMTC-3151 Christian Approaches to Electronic Media.....	2
EMTC-XXXX Practica .....	2
EMTC-XXXX Concentration Requirements and Electives.....	7
Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives.....	7
<b>Total.....</b>	<b>33</b>

#### Fourth year:

EMTC-4110 Electronic Media Law and Regulation .....	3
EMTC-4810 Senior Seminar.....	1
EMTC-4920 Senior Project.....	3
(or EMTC-4930 Electronic Media Internship .....	3-12)
Concentration Requirement or Elective .....	2
EMTC-XXXX Practicum .....	1
Humanities Elective .....	3
Electives.....	7-16
<b>Total.....</b>	<b>29</b>

## 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. To assist the student in the training and mastering of theatre skills and to help them put into practice classroom education, many theatre courses require practical work on University productions. Required hours for stage work are to be considered as course schedules are planned. Theatre students receive training in theatre procedures and safety before working on the University stage. 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. With the assistance of a faculty advisor, theatre majors are encouraged to consider taking a minor in such fields of study as art, English, management, Christian education or psychology. 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 for employment or ministry. Course requirements involve 56 semester hours.

Course requirements involve 56 semester hours including:

<i>Core requirements</i> .....	36
COM-1000 Introduction to Communication Arts .....	3
THTR-1410 Introduction to Theatre.....	3
THTR-1440 Stagecraft I .....	1
THTR-1450 Stagecraft II .....	1
THTR-1480 Play Production.....	3
THTR-2200 Introduction to Design.....	3
THTR-2350 Principles of Play Directing .....	3
THTR-2430 Principles of Acting .....	3
THTR-2470 Makeup Design.....	2
THTR-3420 Theatre History I .....	2
THTR-3430 Theatre History II .....	2
THTR-3470 Dramaturgy .....	3
THTR-4400 Professional Preparation Seminar .....	3
THTR-4630 The Christian in Theatre .....	2
<i>Electives selected from the following</i> .....	2
EMTC-3350 Documentary Film .....	2
THTR-2410 Advanced Theatre Techniques .....	3
THTR-2510 Theatre of Social Change .....	3
THTR-3610 Education Theatre.....	2
THTR-3850 Seminar in Arts Administration/Arts Law .....	2
<i>Concentration selected from the following</i> .....	20

<i>Design Concentration</i> .....	20
THTR-2440 Stagecraft III.....	1
THTR-2450 Scenic Design .....	3
THTR-2460 Costume Design.....	3
THTR-3440 Stage Costume History .....	3
THTR-3450 Stagecraft IV .....	1
THTR-3490 Stage Lighting Design.....	3
THTR-3520 Scenic Painting .....	3
*THTR-4840 Senior Theatre Project.....	3
<i>Performance Concentration</i> .....	20
THTR-1230 Voice and Diction .....	3
THTR-1430 Stage Movement.....	3
THTR-2410 Advanced Performance Techniques.....	3
THTR-3430 Advanced Acting.....	3
THTR-3510 Advanced Directing .....	3
THTR-3530 Techniques of American Musical Theatre .....	2
*THTR-4840 Senior Theatre Project.....	3

\*Capstone Course

### Theatre Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	49-57
Theatre Major Requirements.....	56
Electives .....	15-23
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



A complete description of the general education requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Theatre

### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1000 Intro to Communication Arts.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
HUM-1400 Introduction to the Humanities.....	3
THTR-1410 Introduction to Theatre.....	3
THTR-1420 Introduction to Technical Theatre.....	3
THTR-1440 Stagecraft I.....	1
THTR-1450 Stagecraft II.....	1
THTR-1480 Play Production.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
Biology Elective.....	3.5
<b>Total.....</b>	<b>33.5</b>

### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
GSS-1100 Politics and American Culture.....	3
LIT-2340 Western Literature.....	3
THTR-2200 Intro to Design.....	3
THTR-2350 Principles of Play Directing.....	3
THTR-2430 Principles of Acting.....	3
THTR-2420 Makeup Design.....	3
Physical Education Activity Elective.....	1
Theatre Concentration Courses.....	9
<b>Total.....</b>	<b>33</b>

### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
THTR-3420 Theatre History I.....	2
THTR-3430 Theatre History II.....	2
THTR-3470 Dramaturgy.....	3
History Elective.....	3
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Electives.....	3
Theatre Concentration Courses.....	9
<b>Total.....</b>	<b>32.5</b>

### Fourth year:

THTR-4400 Professional Preparation Seminar.....	2
THTR-4630 The Christian in Theatre.....	2
THTR-4840 Senior Theatre Project.....	3
Theatre Elective.....	2
Social Science/Global Awareness Elective.....	3
Electives.....	17
<b>Total.....</b>	<b>29</b>

## Minors

### Comprehensive Communication Arts Minor

Course requirements for the minor in **comprehensive communication arts** involve 16 semester hours selected from the following courses:

COM-1000 Introduction to Communication Arts.....	2
COM-2000 Persuasive Theory.....	3
COM-2050 Communication Theory.....	3
COM-2200 Communication in Applied Contexts.....	2
COM-3100 Advanced Public Speaking.....	3
COM-3240 Interpersonal Communication.....	2
COM-4110 History of Public Address.....	3
COM-4120 Contemporary Rhetoric.....	2

### Electronic Media Minor

Course requirements for the minor in **electronic media** involve 16 semester hours selected from the following courses:

COM-1000 Introduction to Communication Arts.....	2
EMTC-1110 Introduction to Electronic Media.....	3
EMTC-1120 Audio Production.....	3
EMTC-2110 Video Technical Training.....	3
EMTC-2130 Writing for Electronic Media.....	3
<i>Research (Select one of the following courses).....</i>	<i>3</i>
EMTC-3111 Survey Research for Electronic Media.....	3
EMTC-3112 Content Research for Electronic Media.....	3
EMTC-3150 Electronic Media Ethics.....	2
EMTC-3151 Christian Approaches to Electronic Media.....	2

### Organizational Communications Minor

Course requirements for the minor in **organizational communications** involve 16 semester hours selected from the following courses:

COM-1000 Introduction to Communication Arts.....	2
COM-2000 Persuasive Theory.....	3
COM-2050 Communication Theory.....	3
COM-2200 Communication in Applied Contexts.....	2
COM-3100 Advanced Public Speaking.....	3
COM-3240 Interpersonal Communication.....	2
COM-3230 Organizational Communication.....	3
COM-3250 Interviewing.....	3
COM-3260 Organizational Negotiation.....	3
COM-3330 Organizational Training.....	3
COM-4060 Organizational Leadership.....	3
MGMT-3500 Principles of Organization and Management.....	3
MGMT-3530 Human Resource Management.....	3

### Theatre Minor

Course requirements for the minor in **theatre** involve 16 semester hours selected from the following courses:

THTR-1230 Voice and Diction.....	3
THTR-1410 Introduction to Theatre.....	3
THTR-1420 Introduction to Technical Theatre.....	3
THTR-1430 Stage Movement.....	2
THTR-1460 Theatre Participation (repeatable).....	1
THTR-1480 Play Production.....	3
THTR-2130 Dramatic Literature.....	3
THTR-2350 Principles of Play Directing.....	3
THTR-2400 Stagecraft.....	1
THTR-2410 Fundamentals of Oral Interpretation.....	3
THTR-2420 Stage Costume and Makeup Design.....	3
THTR-2430 Principles of Acting.....	3
THTR-2450 Scenic Design.....	3
THTR-3420 Theatre History.....	3
THTR-3470 Dramaturgy.....	3
THTR-3490 Stage Lighting Design.....	3
THTR-3510 Advanced Directing.....	3
THTR-3630 Production of Religious Drama.....	2

## Course Descriptions

### Communication Arts Courses

**COM-1000 Introduction to Communication Arts—Fa,Sp** 3 hours

A foundational course designed to introduce the student to the broad discipline of communication including such areas as Christian perspectives, theory, ethics, programs of study, professional organizations, and co-curricular and career opportunities.

**COM-1100 Fundamentals of Speech—Fa,Sp** 3 hours

Usually a prerequisite for other courses in speech, the fundamental course offers theory and practice in basic speech skills for extemporaneous speaking and the use of voice and delivery in oral interpretation of prose and poetry. Students gain extensive training in public speaking as an art.

**COM-1120 Honors Speech—Fa,Sp** 3 hours

Exposes the student 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-1230 Voice and Diction—Fa** 3 hours

See course description for THTR-1230 Voice and Diction.

**COM-1500 Introduction to Debate—Su** 3 hours

A foundational course designed to allow high school students to develop their public speaking and debating skills in a concentrated, activity-intensive learning environment. Theories concerning public speaking and argumentation will be presented. Daily speaking assignments are an important aspect of the course. (Fee: \$25)

**COM-2000 Persuasive Theory—Fa** 3 hours

Methods of applying contemporary communication theories on attitudes, involvement, and change combined with classical positions on the principles and methods of persuasive communications. Attention is given to the study, analysis, and delivery of persuasive speeches in a free society. Along with background in the rhetorical criticism of logical, emotional, and ethical proofs.

**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 Communication in Applied Contexts—Fa,Sp** 2 hours

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 Research in Communication—Fa, Sp** 3 hours

A survey of research methodologies commonly employed by communication researchers. Laboratory hour introduces library search techniques and participation in on-going research projects. *Prerequisite: COM-2050 Communication Theory.*

**COM-2230 Group Discussion—Sp** 2 hours

Group interaction and principles of directing effective groups are studied to develop individual understanding of group processes. Emphasis on the different aims of discussion 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-2320 Theories of Mass Media—Sp** 3 hours

Contemporary mass media is surveyed with attention to the nature, role, structure, influence, operation, and problems of newspapers, magazines, radio, and television-journalistic activities. The course also examines issues involving new communication technologies such as the Web, personal digital assistants, and digital broadcasting.

**COM-2410 Fundamentals of Oral Interpretation—Fa** 3 hours

The study of literature through the medium of oral performance involves development in analysis and performance skills. Interpretation theories and techniques that deal with poetry, prose, and dramatic literature are presented.

**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-2820 Political Communication—Sp** 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.

**COM-3100 Advanced Public Speaking—Fa,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-3120 Argumentation and Debate—Fa** 3 hours

The study of principles and practices of debate. Course includes an overview of typical questions used in intercollegiate debate as well as the theory involved in logical preparation and refutation of a case.

**COM-3130 Rhetorical Criticism—Sp** 2 hours

Critical approaches to textual analysis within communication studies. Analyses may feature speeches, writings, television, and film. Critical thinking, writing skills emphasized. Seminar format.

**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-3220 Visual Communication—Fa,Sp** 3 hours

Centers on the analysis of how we, as individuals and societies, shape, communicate, receive, and interpret visual images. Particular emphasis is given to visual and aesthetic theory as it applies to film, television, advertising, and theatre.

**COM-3230 Organizational Communication—Sp 3 hours**

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—Sp 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 3 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-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 1 hour**

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-3650 Clinical Methods in Teaching Speech—Fa,Sp 2 hours**

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 Communication and Cultural Literacy—Sp 3 hours**

Course content organized around a survey of American history with emphasis on the impact of religious beliefs and social forces on the formation of American social practice. Students are encouraged to critically consider and consciously embrace cultural anchors that guide ethical and effective cross-cultural communication.

**COM-3790 Cultural Immersion Clinic—Fa, Sp, Su 3 hours**

Encourages personal development toward intercultural sensitivity and adaptation. Requires regular contact with faculty monitoring immersion experience. *Prerequisite: COM-2140 Intercultural Communication, SOC-2300 Principles of Sociology or PSYCH-1800 Cross-Cultural Psychology.* (Fee \$100)

**COM-3810 Political Speechwriting—Sp 3 hours**

This course focuses on the skills necessary to research for and effectively write a variety of political messages. Students will practice using the skills necessary for effective political communication in political speechwriting exercises. Theory that enriches the understanding of political messages will be presented and applied. *Prerequisite: COM-3100 Advanced Public Speaking.*

**COM-3840 Media Analysis—Sp 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-4100 Advanced Argument—Sp 2 hours**

Prepares students for intercollegiate debate. Focuses on research and the creation and development of argumentative claims. Class members compete in intercollegiate tournaments. *Prerequisite: COM-3120 Argumentation and Debate.*

**COM-4110 History of Public Address—Fa 3 hours**

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.*



Up-to-date facilities provide students with the equipment to learn and to gain hands-on experience.

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## COM-4210 Public Opinion and Polling—Sp 3 hours

Provides an introduction to the process of public opinion and the methods of studying that process, specifically polling. Students will participate in a number of research-related activities associated with the study of public opinion. Theory that is useful for understanding the public opinion process will be presented and applied to examples of public opinion research.

## COM-4600 Speech Seminar—Sp 2 hours

Courses are available to the advanced student who desires intensive study in a particular area of speech communications.

## 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 basis.

## COM-4710-4760 Independent Study 1-3 hours

### COM-4710-General Communication—Fa,Sp 1-3 hours

### COM-4720-Organizational Communication—Fa,Sp 1-3 hours

### COM-4730-Oral Interpretation—Fa,Sp 1-3 hours

### COM-4740-Drama—Fa,Sp 1-3 hours

### COM-4750-Media—Fa,Sp 1-3 hours

### COM-4760-Forensics—Fa,Sp 1-3 hours

Taken to secure an in-depth background in one of the areas of speech communication. Repeatable to a total of eight credit hours in the field. *Prerequisite: permission of instructor.*

## COM-4810 Research Pre-Seminar—Sp 2 hours

Senior students present research findings to beginning researchers. Senior students mentor beginning students. Beginning researchers employ library search techniques to prepare a research prospectus. (Fee \$25)

## COM-4820 Senior Research Project—Fa 3 hours

Students select a topic of interest, research, and write a paper under the direction of a research mentor. Students present findings before faculty and peers. Research is published by the department and retained in the department of communication arts archives. *Prerequisites: COM-2050 Communication Theory; COM-2220 Communication Research; COM-4810 Research Pre-Seminar.* (Fee: \$45)

## COM-4830 Research—Post Seminar—Sp 0 hours

Senior students present research findings to beginning researchers. Senior students mentor beginning students. Beginning researchers employ library search techniques to prepare a research prospectus.

## COM-4840 3 hours

### Senior Project in Theatre Performance—Fa,Sp

Communication Arts majors who have a strong interest in theatre performance have the option of completing their communications major with a theatre project. Students must declare this to their communication arts advisor and the director of theatre before completing their sophomore year and must complete prescribed courses in theatre. *Platform examinations are required of all who wish to present a theatre performance for their senior communications project and are included in THTR-2410 Advanced Performance Techniques and THTR-2430 Principles of Acting.* These two courses must be taken before the end of their sophomore year. All students who wish to transfer college credit for these courses must complete a platform examination the semester they enter the major. The faculty will determine entrance and continuation in the theatre performance program. *Prerequisites: THTR-1230 Voice and Diction; THTR-1410 Introduction to Theatre; THTR-1430 Stage Movement; THTR-2410 Advanced Performance Technique; THTR-2350 Principles of Play Directing; THTR-2430 Principles of Acting.* (Fee: \$50)

## COM-4900 Internship in Communications—Fa,Sp 3-12 hours

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability.

### Electronic Media Courses

## EMTC-1110 Introduction to Electronic Media—Fa 3 hours

A survey of electronic media, including history and development, types, audience research, regulations, and globalization.

## EMTC-1120 Audio Production—Fa,Sp 3 hours

Students receive instruction and training in the operation of electronic equipment used in electronic media. This course emphasizes the roles of sound designer and engineer; the student will be introduced to the techniques of audio production and will produce a variety of media projects. (Fee: \$45)

## EMTC-1210 Media Performance—Sp 3 hours

Examines all types of announcing and applies each with particular emphasis to radio and television performance. Emphasis is on the use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$45)

## EMTC-2061 Proficiency in HTML—Fa,Sp 0 hours

The student will demonstrate the ability to create webpages using an HTML editor. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

## EMTC-2062 Proficiency in Photoshop—Fa,Sp 0 hours

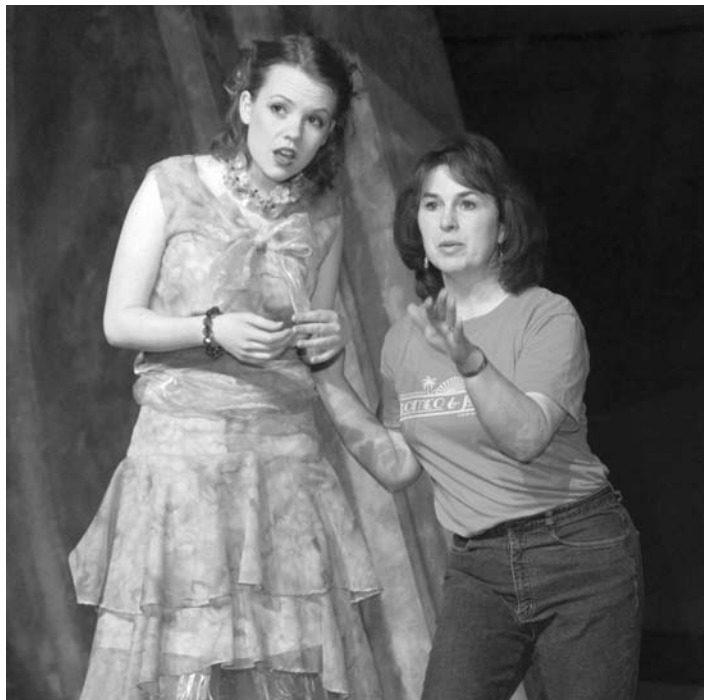
The student will demonstrate the ability to create screen designs for television and interactive media in Photoshop. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

## EMTC-2063 Proficiency in Illustrator—Fa,Sp 0 hours

The student will demonstrate the ability to create vector-based designs in Illustrator. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

## EMTC-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)



**EMTC-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.

**EMTC-2310 Introduction to Photography–Sp 2 hours**

Acquaints students with basic principles of photography (light, exposure, composition, and darkroom skills) through lecture, laboratory sessions, and photographic assignments. (Fee: \$45)

**EMTC-2320 3 hours**

**Pre-production and Planning for Video and Film–Fa**

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 \$30).

**EMTC-2601 3 hours**

**Interactive Interface Design with Flash–Fa**

Development of interactive interfaces for Web sites, interactive CDs and interactive television using industry-standard Flash software. Open to all students. For interactive media students who do not have a background in Flash, the course will provide them with some directed help in preparing for EMTC-3061 Proficiency in Flash. *May not be counted as major hours for electronic media majors.* (Fee: \$35).

**EMTC-2606 2 hours**

**Introduction to Computer Animation for Electronic Media–Fa**

An introduction to the use of 3D animation software. Intended for students who do not have a background in 3D animation and who need some directed help in preparing for EMTC-3065 Proficiency in Maya. *May not be counted as major hours for Electronic Media majors.* (Fee: \$35)

**EMTC-2610 Preproduction Planning–Fa 3 hours**

Examines the preproduction phase of television and multimedia productions. Topics covered include planning, specifications, contracts, scheduling, budgeting, and evaluation. Special emphasis is placed on project management and research to understand the design and effectiveness of television and multimedia projects.

**EMTC-3061 Proficiency in Flash–Fa,Sp 0 hours**

The student will demonstrate the ability to create Flash animations and interactive programs. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

**EMTC-3062 Proficiency in Director–Fa,Sp 0 hours**

The student will demonstrate the ability to create interactive media products using Director. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

**EMTC-3065 Proficiency in Maya–Fa,Sp 0 hours**

The student will demonstrate the ability to create 3D models and animations in Maya. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

**EMTC-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 Web site ratings. Includes an introduction to academic research in electronic communication using survey methodologies. *Prerequisite: EMTC-1110 Introduction to Electronic Media.*

**EMTC-3112 3 hours**

**Content Research for Electronic Media–Fa**

Introduces media students to research and paper writing and provides knowledge and practical experience in conducting content analyses of electronic media. The course instructs students in the library tools for media research, content coding procedures, and writing final research reports. *Prerequisite: EMTC-1110 Introduction to Electronic Media.*

**EMTC-3150 Electronic Media Ethics–Fa 2 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. *Prerequisite: junior or senior standing.*

**EMTC-3151 2 hours**

**Christian Approaches to Electronic Media–Sp**

Builds upon theistic critiques of the connections between society and technology to develop an understanding of how Christians approach the electronic media, both as consumers and practitioners.

**EMTC-3210 Advanced Audio Production–Fa,Sp 3 hours**

This class is designed to teach the theories, principles, and practices of multi-track studio production. Emphasis will be given to the use of digital recording technologies and their usage related to other media. (Fee: \$45)

**EMTC-3310 Advanced Video Production–Fa 3 hours**

Taught from the producer's perspective. Hands-on training dealing with all the variables of making a video production, including pre-production, production, and post-production, and including linear and non-linear editing techniques. *Prerequisite: EMTC-2110 Video Technical Training.* (Fee: \$45)

**EMTC-3330 Screenwriting–Fa 2 hours**

An advanced writing course for students interested in learning the formal construction involved in writing a professional screenplay, with emphasis on dramatic writing and strong character development. *Prerequisite: EMTC-2130 Writing for Electronic Media.*

**EMTC-3350 Documentary Film–Fa 2 hours**

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: \$25) (even years)

**EMTC-3360 Documentary Film-Style Prod. I–Fa 3 hours**

Study of the framework for non-fiction film-style production. Emphasis on theory, pre-production planning, funding, writing, and interviewing unique to documentary programming. Will select a topic and complete a finished treatment, which will be the basis for the actual program produced in Documentary Film-style Production II. *Prerequisites: EMTC-2110 Video Technical Training; and EMTC-3310 Advanced Video Production.*



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## **EMTC-3370 Documentary Film-Style Prod. II–Sp 2 hours**

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. Students will take the treatment completed in Documentary Film-style Production I and produce a final program. *Prerequisite: EMTC-3360 Documentary Film-style Production I.*

## **EMTC-3410 Electronic Media Sales–Fa 3 hours**

Emphasis on conducting a customer needs analysis and developing sales presentations. Sales executives work with the class to develop technique, copywrite, and presentation skills. *Prerequisite: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media.* (Fee: \$45)

## **EMTC-3420 Electronic Media Management–Sp 3 hours**

This class 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. *Prerequisite: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media.*

## **EMTC-3610 Visual Design for Electronic Media–Sp 3 hours**

This course applies the theory and principles of visual communication to screen design for interactive media. Emphasis is placed on designing for both NTSC and wide-screen HDTV aspect ratios. *Prerequisites: ART-1100 Introduction to Art or COM-3220 Visual Communication; EMTC-1110 Introduction to Electronic Media.* (Fee: \$35)

## **EMTC-3630 Principles of Computer Animation–Sp 3 hours**

Application of the principles of traditional cell-based animation to computer animation, as well as the effective use of animation for communication. *Prerequisite: EMTC-3065 Proficiency in Maya.* (Fee: \$35)

## **EMTC-3640 Issues in Mobile Electronic Media–Sp 3 hours**

Examines a variety of issues associated with portable communication devices such as personal digital assistants and Web-capable cell phones. Topics covered include applications of traditional media theories to wireless communication, diffusion, regulation of wireless technology, e-commerce, and industrial and sociological implications of media mobility. *Prerequisite: junior or senior standing.* (Fee: \$35)

## **EMTC-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 classes. The course is repeatable for a total of two hours.

*Prerequisites: EMTC-1110 Introduction to Electronic Media; EMTC-1120 Audio Production.* (Fee: \$45)

## **EMTC-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. *Prerequisites: EMTC-2110 Video Technical Training; junior or senior status; permission of instructor.* (Fee: \$25)

## **EMTC-3732 Directing 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 three hours. *Prerequisites: EMTC-2110 Video Technical Training; junior or senior status; permission of instructor.*

## **EMTC-3733 Sports Production Practicum–Fa,Sp 1 hour**

Production on a video crew in sports production as assigned by the instructor. The course is repeatable for a total of six hours. *Prerequisites: EMTC-2110 Video Technical Training; junior or senior status; permission of instructor.* (Fee: \$25)

## **EMTC-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 classes. The course is repeatable for a total of three hours. *Prerequisites: EMTC-3410 Electronic Media Sales; EMTC-3420 Electronic Media Management; junior or senior status; permission of the instructor.*

## **EMTC-3761 Interactive Media Practicum–Fa,Sp 1 hour**

The student will develop an interactive medium product, such as a Web page or Director-based program, either individually or as a member of a production team under the supervision of a faculty mentor. Repeatable for a total of 2 credit hours. *Prerequisites: EMTC-2061, 2062, 3061, 3062 Proficiencies in HTML, Photoshop, Flash, and Director.* (Fee: \$25)

## **EMTC-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: EMTC-3630 Principles of Computer Animation; permission of faculty mentor.* (Fee: \$25)

## **EMTC-4110 Electronic Media Law & 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.

## **EMTC-4155 Image and Word in a Visual Culture–Sp 3 hours**

An inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. Crosslisted as HON-4155.

## **EMTC-4310 Film-Style Production–Sp 2 hours**

An advanced production class taught from a film-maker's perspective, with a direct emphasis on single camera technique and non-linear editing. *Prerequisite: EMTC-3310 Advanced Video Production.* (Fee: \$25)

## **EMTC-4610 Media Convergence–Sp 3 hours**

Examines the ways in which traditional electronic mass media and interactive media are converging. Students will engage in research to investigate the historical trends toward convergence, models for convergence, and economic, programming, and regulatory implications of converging media.



**EMTC-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 electronic media major; permission of the faculty mentor.*

**EMTC-4710 Independent Study: Electronic Media 1-3 hours**

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.*

**EMTC-4810 Senior Seminar—Fa,Sp 1 hour**

A transition to the professional world. Includes development of resumes, resume tapes, and portfolios; interviewing skills; and business etiquette. Students enrolled in Senior Seminar must take the Tek. Xam, a national, standardized assessment tool that measures technology applications and problem-solving skills within the technology environment. The cost for Tek.Xam is covered by the course fee. Capstone course. *Prerequisite: senior status as electronic media major. (Fee: \$50)*

**EMTC-4920 Senior Project 3 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 class. Capstone course. *Prerequisites: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media; GPA of 3.0 in major classes; senior status; permission of EMTC faculty. (Fee: \$35)*

**EMTC-4930 Electronic Media Internship 3-12 hours**

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 classes; senior status; approval by the electronic media faculty.*

**Theatre Courses**

**THTR-1230 Voice and Diction—Fa 3 hours**

Designed to assist the student in strengthening and maintaining the speaking voice. Areas of study include voice physiology, effective breathing for speaking, voice quality, and articulation. A brief examination of major vocal problems is also given.

**THTR-1410 Introduction to Theatre—Fa,Sp 3 hours**

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-1420 Introduction to Technical Theatre—Fa,Sp 3 hours**

An overview course in all areas of technical theatre, including design. Intended to give the student a broad understanding of the basic principles and procedures used in the design of scenery, costuming, lighting, sound, and production management. Practicum required. (Fee \$45)

**THTR-1430 Stage Movement—Fa,Sp 2 hours**

This course will be an intensive practicum in theatrical stage movement designed for the individual with an interest in acting. Incorporate movement exercises that stress/correct use of the mechanical and anatomical components of human movement. Increased awareness of individual movement characteristics and

the application of movement variations to character development will be emphasized and students will learn Laban Effort-Shape, Alexander Technique, and various improvisational movement techniques.

**THTR-1440 Stagecraft I—Fa,Sp 1 hour**

The class 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 1 hour**

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 communication arts-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-1480 Play Production—Sp 3 hours**

Provides an overview of the elements of play production (including direction, dramaturgy, design, producing, stage management, promotion, etc.). Through lecture and experience the student will be introduced to the practical aspects of producing a play. The ideas will be explored from a director's involvement with these elements. Stage work required. (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.

**THTR-2200 Introduction to Design—Fa 3 hours**

The class is designed to introduce the student to philosophies of design by studying the work of theatrical designers: scenic, costume, and lighting. A number of projects will explore basic elements of design. (Fee: \$50).



# Communication Arts

School of Humanities, Fine Arts, and Bible

## THTR-2350 Principles of Play Directing—Sp 3 hours

Practical study of play directing methods and techniques applied through class projects. Students will direct and perform play cuttings from a variety of dramatic literature types during the semester. The class is especially helpful to education majors who will have to assist in educational theatre productions.

## THTR-2400 Stagecraft—Fa,Sp 1 hour

The class is designed to acquaint the student with selected elements of play production. Students are assigned a project in an area of stagecraft, such as set construction/decoration, properties, lighting, or costuming in relation to the mounting of a theatrical production. Stage work required. Two semesters are required within the first two years.

## THTR-2410 Advanced Performance Techniques—Sp 3 hours

An advanced class in solo theatre performance where students learn performance techniques in monologs and monodrama. Special emphasis is placed on the solo presentation of multiple characters in both narrative and dramatic literature. *Prerequisite:* THTR-2430 Acting or permission of instructor.

## THTR-2420 Stage Costume/Makeup Design—Fa,Sp 3 hours

This course is designed to prepare the theatre arts students in the design and practical application of costume and makeup for performance. Attention is given to an understanding of relevant historical periods and theatrical styles. Theory and practice are both emphasized. Stage work required. *Prerequisite:* THTR-1420 Introduction to Technical Theatre. (Fee \$60)

## THTR-2430 Principles of Acting—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

The class 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-2450 Scenic Design—Sp 3 hours

A theatre course which emphasizes the analysis and interpretation of the script, use of research material and techniques of presentation. Includes an introduction to the practices of drafting. Practicum and stage work required.

*Prerequisite:* THTR-1420 Introduction to Technical Theatre. (Fee: \$55)

## THTR-2460 Costume Design—Fa 3 hours

Designed to provide the student with both theoretical knowledge and practical skills for designing costumes for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. *Prerequisite:* THTR-1420 Introduction to Technical Theatre. (Fee \$50).

## THTR-2470 Makeup Design—Sp 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: \$50)

## THTR-2510 Theatre of Social Change—Sp 3 hours

The nature of this course is to provide background in theory and practical work in areas of theatre that focus on efforts to work effectively on behalf of those who are politically, economically, behaviorally or spiritually oppressed.



**THTR-3420 Theatre History I–Fa 2 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.

**THTR-3430 Theatre History II–Sp 2 hours**

Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era.

**THTR-3440 Stage Costume History–Fa**

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. (Fee: \$40)

**THTR-3450 Stagecraft IV–Sp 1 hour**

The class 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 Advanced Acting–Sp 3 hours**

Designed to build upon knowledge and training learned in THTR-2430 Principles of Acting. Attention will be given to scene study, acting theory, and audition principles.

**THTR-3470 Dramaturgy–Fa,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.

**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. *Prerequisite: THTR-1420 Intro to Technical Theatre.* (Fee: \$35)

**THTR-3510 Advanced Directing–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.

*Prerequisite: THTR-2350 Principles of Play Directing.*

**THTR-3520 Scenic Painting–Sp 3 hours**

This class is designed to introduce the student to scenic painting techniques. The student will hone painting skills through both projects and work on a mainstage production. *Prerequisite: THTR-1420 Intro to Technical Theatre.* (Fee: \$75)

**THTR-3530 2 hours**

**Techniques of American Musical Theatre–Fa**

This class is designed to facilitate a knowledge base and application opportunities to gain skill in various choreographic styles associated with musical theatre performance. (Fee: \$45)

**THTR-3610 Educational Theatre–Fa,Sp 2 hours**

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 by instructor.* (Fee: \$25)

**THTR-3850 2 hours**

**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.

**THTR-4400 Professional Preparation Seminar–Fa 3 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, resume writing, interviewing techniques, graduate study/assistantship options, professional union affiliation, etc. (Fee: \$45)

**THTR-4630 The Christian in Theatre–Sp 2 hours**

The student will evaluate selected plays, both classic and contemporary, through a biblical perspective. The course addresses issues faced by the Christian artist regarding career choices and the challenges faced in contemporary theatre.

**THTR-4640 Special Topics–Fa,Sp 3 hours**

Topics of specialized theatrical interest are examined on an as-needed basis. Repeatable up to six credit hours.

**THTR-4750 Independent Study: Theatre–Fa,Sp 1-2 hours**

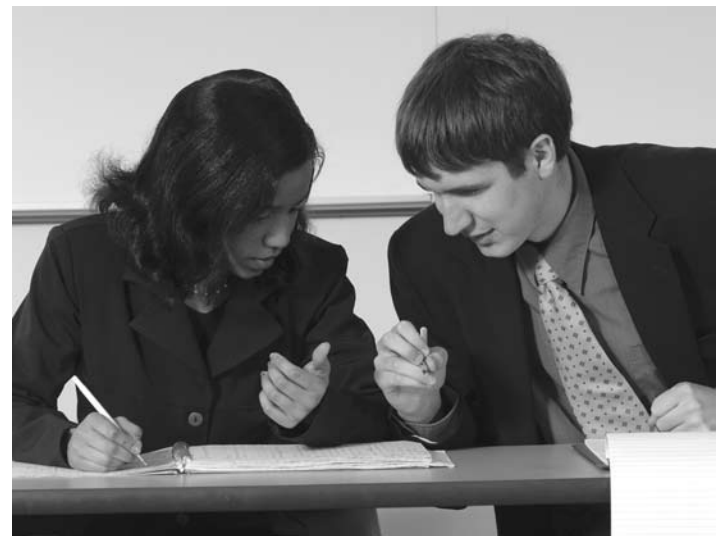
Independent study in a selected field for students with special interests and demonstrated ability. Repeatable up to eight credit hours.

**THTR-4810 Internship: Theatre–Fa,Sp 3-12 hours**

Students are placed with professional organizations to gain experience in actual career situations. Internships depend upon availability. Repeatable up to fifteen 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. (Fee: \$50)



### Mission Statement

The Cedarville University Education Department seeks to prepare compassionate, professional educators who are committed to the integration of faith, learning, and life as demonstrated in teaching competence and Christ-like character through leadership and service.

### Department Distinctives

- **Accreditation:** Cedarville University is accredited by the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2502, phone: 312-263-0456. The University's teacher preparation programs are approved by the State of Ohio Department of Education.
- Each year approximately 10% 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 that use an American curriculum.
- The University's award-winning technology resources enable upper-level students to develop lessons and curriculum resource materials for K-12 partner technology 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 more than 100 Christian and public schools visit the campus to recruit teacher education graduates.

#### Licensure – Public Schools

All programs leading to licensure at Cedarville University are approved by the State of Ohio Department of Education. Ohio bases its requirements and approval processes on standards set by the National Council for Accreditation of Teacher Education (NCATE). Cedarville is not a member of NCATE and thus programs are not approved directly by NCATE. Ohio is a participant in the *Interstate Agreement on Qualifications of Educational Personnel* and has an implementation agreement (reciprocity) with 42 states. This agreement provides for recognition of Ohio Department of Education-approved programs by member states.

Although reciprocal licensure contracts exist with 42 states, 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 changing in many states; 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. Many states have their certification requirements posted electronically, and these can be accessed through the Cedarville University Education Department home page on CedarNet.

#### Licensure – Christian Schools

Individuals completing the program receive certification from the Association of Christian Schools International (ACSI). Christian schools around the world recognize this certification.

### Demographic Profile

The number of teacher education program completers for the 2005-06 reporting period was 119. The demographic profile of program completers for the 2003-04 reporting period is:

	Number	Percent
White	117	98.3
African American	1	0.85
Hispanic	1	0.85
Asian	0	0.00
Other	0	0.0
Male	19	16
Female	100	84

### 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 life-long learners and enjoy serving others; they are people who are motivated more by making a difference in others' lives than in making a lot of money. Cedarville University desires to work with students who are becoming a professional in their treatment of others, in their dress and demeanor, and in punctuality and 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 tests for teachers.

### Co-Curricular Opportunities

Numerous opportunities exist for tutoring in public schools, mentoring K-12 students, and becoming involved in local church ministries to children and adolescents.

### Teacher Education Program Admission Requirements

Students admitted to Cedarville University must also make application for formal admission to the teacher education program (TEP) usually late in the sophomore year. 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 early childhood education, middle childhood 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.

1. Minimum cumulative GPA of 2.7 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 above.
2. Combined GPA of 2.65 and a grade of "C" or above in both general education communications courses: COM-1100 Fundamentals of Speech and ENG-1400 English Composition.
3. Minimum GPA of 2.5 in the teaching field content area(s).
4. No grade of less than "C-" in teaching field or concentration area courses. For early childhood and special education, this includes general education courses in the content areas of humanities, science, mathematics, and social science.
5. Minimum passing scores on the Praxis I (Pre-Professional Skills Test): Reading, 175; Writing, 174; Mathematics, 175. Waivers may be granted to all or part of the Praxis I, based on ACT/SAT scores and performance in selected course work at Cedarville University.

6. Satisfactory completion of all introductory field experiences: EDUC-1050 Contemporary Christian Schools, EDUC-2200 Multicultural Field Experience, and EDSP-2050 Special Education Field Experience.
7. Recommendation of the education department's admission interview committee based on application, resumé, interview, and letters of recommendation.
8. Valid "No Record" background check for the State of Ohio and an additional FBI background check for those who live out of state.

**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:

1. Maintain a GPA of 2.7 or above in all courses.
2. Obtain a "C" or above in all methods courses.
3. Satisfactorily complete field and clinical experiences.
4. Earn a passing score on state-required Praxis II exams before enrolling in student teaching (licensure only).
5. Satisfactorily complete the internship experience.

**Programs of Study**

The department 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 Education for programs leading to a teaching license or endorsement in several areas.

- Multi-Age Special Education
- Early Childhood Education (pre-K to grade 3)
- Middle Childhood Education (grades 4-9)

Two concentrations chosen from:

- Mathematics
- Reading/Language Arts
- Science
- Social Studies

See appropriate department for a complete description of the following programs:

- Adolescent and Young Adult (grades 7-12)
  - Language Arts Education – Integrated (department of language and literature, page 134)
  - Life Science Education
  - Mathematics Education – Integrated
  - Physical Science Education
  - Physics Education
  - Science Comprehensive Education – Integrated (department of science and mathematics, page 182)
  - Social Studies Education – Integrated (department of social sciences and history, page 210)
- Multi-Age Licensure (pre-K to grade 12)
  - Health Education
  - Physical Education (department of exercise and sport science, page 112)
  - Music Education (department of music and art, page 148)
  - Spanish Education (department of language and literature, page 134)

**Endorsements**

Students interested in an endorsement must possess or be working toward the completion of a degree and licensure requirements in any of the current teaching licensure areas.

Early childhood education majors who wish to qualify for pre-kindergarten special education endorsement may do so by adding the following courses to their early childhood licensure:

ECSP-2500 Young Children w/ Special Needs .....	3
ECSP-3500 Assessing & Teaching Young Children .....	3
ECSP-3550 Clinical: Young Child. w/ Special Needs .....	3

TESOL (Teaching English to Speakers of Other Languages)

Course requirements:

COM-314 Intercultural Communication .....	2
ENG-3060 History of the English Language.....	3
ENG-3070 Advanced Grammar for AYA Teachers.....	3
LING-3080 Linguistics for Language Learning .....	3
LING-3090 Sociolinguistics .....	3
LING-3600 Clinical Experience .....	1
LING-3610 Practicum.....	2
LING-3700 Teaching Foreign Language .....	2

**Career Opportunities**

Christian and public schools actively recruit Cedarville education graduates. Graduate schools also welcome Cedarville students.

Careers pursued by teacher graduates include:

- Christian school teacher
- Church education programs
- Elementary school teacher
- High school or middle school teacher
- International school teacher
- Mission school teacher
- Music teacher K-12
- Physical education/health education teacher K-12
- Preschool director or teacher
- Elementary school teacher
- Special education (mild-moderate educational needs)
- Youth camps

**Faculty**

**Stephen Gruber**, *Chairman*: Associate Professor 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.

**Merlin Ager**, Professor 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, 1978-present.

**Sue Baker**, Professor 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.

**Eddie Baumann**, 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.

**Omer Bonenberger**, Associate Professor of Education. *Education*: B.A., Bob Jones University, 1960; M.A., Arizona State University, 1968; D.Ed., University of Maine, 1981. At Cedarville since 1981.

**Sally Castle**, Associate Professor 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.

**Shelley Dugle**, Assistant Professor of Education. *Education*: B.A., Cedarville University, 1995; M.Sp.Ed., Ball State University, 1998; ABD, University of Cincinnati, 2003. At Cedarville since 2000.

# Education

## School of Social Sciences and Professional Studies

**Carol Estes**, Assistant Professor of Education. *Education*: B.A., Cedarville University, 1975; M.A., The Ohio State University, 1985; Ph.D. candidate, The Ohio State University. At Cedarville since 1996.

**Dwayne Frank**, Professor 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.

**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.

**John Hess**, Director of Student Teaching and Licensure. *Education*: B.S., Cedarville University, 1967; M.Ed.Ad., University of Dayton, 1980; Post-graduate work, Wright State University and University of Dayton, 1990. At Cedarville since 2000.

**Cheryl Irish**, Associate Professor of Education. *Education*: B.S., Western Baptist College, 1986; Certificate in Elementary Education, University of Wisconsin, 1986; M.S.E., University of Wisconsin, 1990. Ed.D., University of Cincinnati, 2001. At Cedarville since 1998.

**Brenda MacKay**, Assistant 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.

**Bryan Moore**, Assistant Professor of Education. *Education*: B.A., Manchester College, 1969; M.Ed., Xavier University, 1973; Ph.D., Bowling Green State University, 1980. At Cedarville since 2004.

**Thomas Swiegard**, Assistant Professor 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.

**Kevin Winslow**, Assistant Professor of Education. *Education*: B.A., Biola University, 1987; M.Ed., George Mason University, 1994; Ph.D., George Mason University, 2005. At Cedarville since 1999.

## Praxis II Pass Rate Data: Regular Teacher Preparation Program

Academic Year: 2004-05

Testing Period: 7/04-6/05

Number of Program Completers: 119

Type of Assessment	# Taking Praxis II	Ave. Pass Rate (%)	OH Pass Score	OH Pass Rate (%) <sup>1</sup>
<b>Professional Knowledge</b>				
Principles of Learning and Teaching: Early Child	7	*	166	99%
Principles of Learning and Teaching: K-6	5	*	168	92%
Principles of Learning and Teaching: 5-9	12	92	168	92%
Principles of Learning and Teaching: 7-12	47	94	165	97%

\*No pass rate information is reported when fewer than 10 teacher candidates take a particular Praxis II test. Results are reported in Aggregate Assessment Pass Rate below.

<sup>1</sup>The state passing rate is based on data collected from all Ohio individuals taking the Praxis II in 2004-2005, regardless of their status in a teacher education program.

<sup>2</sup>The national passing rate is calculated at Ohio's cut scores, which are among the highest in the nation.

## Aggregate Assessment Pass Rate

Type of Assessment	# Taking Praxis II <sup>3</sup>	# Passing Praxis II <sup>4</sup>	Institutional Pass Rate (%)	OH Pass Rate (%)
Aggregate- Professional knowledge	71	66	93	96
Aggregate- Academic Content Areas (Math, English, Biology, Etc.)	107	106	99	97
Aggregate- Teaching Special Populations (Special Ed., ELS, Etc.)	4	*	*	95
<b>Summary Totals and Pass Rates<sup>5</sup></b>	100	95	95	95

<sup>3</sup>Number who took one or more tests in a category and within their area of specialization.

<sup>4</sup>Number who passed all tests they took in a category and within their area of specialization.

<sup>5</sup>Number who successfully completed one or more tests across all categories used by the state for licensure and the total pass rate.

## Contextual Information for the 2004-05 Academic Year

Total number of students officially enrolled in teacher preparation, all specializations, in academic year 2004-05	274
Number of students in supervised student teaching in academic year 2004-05	124
Number of faculty members who supervised student teachers in 2004-05	27
Student teacher/faculty supervisor ratio*	4.59:1*
The average number of student teaching hours per week required	30
The total number of weeks of supervised student teaching required	10
Average total number of hours required	300

\*Average number of student teachers supervised by each supervisor in each 10-week term of student teaching. Does not include overseas student teachers.

## General Education Requirements for Education Majors

**Early Childhood Education (EC)**  
**Middle Childhood Education (MC)**  
**Special Education (SpE)**

<i>Biblical Education</i> .....	16
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
<i>Communications</i> .....	6
COM-1100 Fundamentals of Speech .....	3
ENG-1400 English Composition .....	3
<i>Humanities</i> .....	10-11
EDUC-2400 Children's Literature (EC, SpE) .....	2
(or COM-2300 Voices of Diversity (MC).....)	3
EDUC-4500 Philosophy of Education.....	2
*HUM-1400 Introduction to the Humanities .....	3
*Literature Elective .....	3
<i>Science and Mathematics</i> .....	13-17
*BIO-1000 Principles of Biology .....	3.5
EDUC-1800 Principles of Mathematics I .....	3
EDUC-2800 Principles of Mathematics II .....	3
*1GSCI-1010 Principles of Earth Science .....	3.5
*2GSCI-2010 Physical Science for Teachers .....	4
<i>Physical Education</i> .....	2
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective .....	1
<i>Social Science</i> .....	9
*GSS-1100 Politics and American Culture.....	3
*Global Geography Elective .....	3
*HIST-3750 Social Movements.....	3
<i>Foreign Language</i> .....	0-8

See the global awareness section of the general education requirements.

<sup>1</sup>Taken concurrently with student teaching

<sup>2</sup>Middle Childhood and Special Education majors select either GSCI-1010 or GSCI-2010.

\*Content core courses for early childhood & special education



## Teacher Education Core

Required of all Teacher Education majors

<i>Teacher Education Core</i> .....	12
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2100 Technology in the Classroom .....	2
EDUC-2500 Educational Psychology .....	3
(or EDMC-2500 Educational Psychology of Middle Childhood* .....	3
EDUC-4500 Philosophy of Education.....	2

\*Middle Childhood majors only



### Early Childhood Education

The **early childhood education** major prepares students to teach preschool and early elementary school (pre-K to grade 3) in public and Christian schools.

Course requirements involve 69 semester hours including:

<i>Teacher Education Core (see previous column)</i> .....	12
<i>Early Childhood Foundations</i> .....	13
EDEC-2100 Art, Music, & Drama for Early Childhood .....	2
EDSP-2500 Survey of Mental Retardation and Developmental Disabilities: EC .....	1
EDSP-3100 Diagnostic and Remedial Reading .....	3
EDUC-2300 Introduction to the Reading Process .....	2
ESED-2900 Health and Movement Education .....	2
PYCH-2700 Child Development .....	3
<i>Early Childhood Methods I</i> .....	17
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3700 Teaching Reading: Phonics .....	3
EDEC-3800 Teaching Reading and Lang. Arts: E.C. ....	4
EDEC-3900 Field Experience in E.C. Education .....	1
EDEC-3950 Early Childhood Clinical I .....	3
<i>Early Childhood Methods II</i> .....	17
EDEC-4000 Reading in the Content Area: E.C. ....	2
EDEC-4100 Teaching Mathematics: Early Childhood .....	4
EDEC-4200 Teaching Science: Early Childhood .....	3
EDEC-4300 Teaching Social Studies: Early Childhood .....	3
EDEC-4450 Early Childhood Clinical II .....	3
EDSP-4250 Communication, Collaboration, and Inclusion Skills .....	2
<i>Student Teaching</i> .....	10-12
*EDEC-4900 Student Teaching and Seminar .....	10-12

\*Capstone Course

#### Early Childhood Education Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	60-68
Early Childhood Education Major Requirements .....	69
<b>Total (minimum, not including proficiency)</b> .....	<b>129</b>

### Middle Childhood Education

The **middle childhood education** major prepares students to teach upper elementary or middle school (grades 4 to 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 48 education semester hours plus 27-36 concentration area hours including:

<i>Teacher Education Core (see previous column)</i> .....	12
<i>Middle School Methods I</i> .....	13
EDMC-3500 Principles of Teaching for Middle Childhood .....	3
EDMC-3600 Phonics/Structure Language .....	3
EDMC-3700 Teaching Reading / Middle Child. Lit. ....	4
EDMC-3950 Middle School Clinical I .....	2
EDSP-4000 Principles of Inclusion .....	1
<i>Middle School Methods II</i> .....	13
EDMC-4000 Reading in Content Area: Middle Childhood .....	3
EDMC-4050 Responsive Schools for Middle Childhood .....	2
EDMC-4440 <i>Middle School Clinical II</i> .....	2
<i>Two of the following based on concentration areas:</i>	
EDMC-3800 Writing Process and Language Arts Methods for Middle School .....	3
EDMC-4100 Teaching Math: Middle Childhood .....	3
EDMC-4200 Teaching Science: Middle Childhood .....	3
EDMC-4300 Teaching Soc. St.: Middle Childhood .....	3

*Student Teaching* .....

\*EDMC-4900 Student Teaching and Seminar .....

\*Capstone Course

#### Concentration Areas (must choose two)

<i>Mathematics</i> .....	27
EDMC-3300 Topics in Middle School Mathematics .....	3
*EDMC-4100 Teaching Math: Middle Childhood .....	3
*EDUC-1800 Principles of Math I .....	3
*EDUC-2800 Principles of Math II .....	3
GMTH-1020 College Algebra .....	3
GMTH-1030 Pre-Calculus .....	4
GMTH-3010 Proof and Mathematical Modeling .....	3
MATH-1710 Calculus I .....	5
<i>Science</i> .....	31
*BIO-1000 Principles of Biology .....	3.5
CHEM-1000 Principles of Chemistry .....	5
*EDMC-4200 Teaching Science: Middle Childhood .....	3
*GSCI-1010 Principles of Earth Science .....	3.5
GSCI-2010 Physical Science for Teachers .....	4
GSCI-3010 Concepts in Middle School Science .....	4
GSCI-3060 Env. Science for Middle School Educators .....	4
Select one science elective from the following .....	4
ESCI-2310 Introduction to Oceanography .....	4
ESCI-2410 General Meteorology .....	4
ESCI-2510 Introductory Astronomy .....	4
<i>Social Studies</i> .....	27
ECON-2330 Microeconomics .....	3
*EDMC-4300 Teaching Social Studies: M.C. ....	3
*GEO-3510 World Regional Geography West .....	3
(or GEO-3520 World Regional Geography East .....	3)
*GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History I .....	3
(or HIST-1120 United States History II .....	3)
HIST-2010 History of Civilization I .....	3
(or HIST-2020 History of Civilization II .....	3)
*HIST-3750 Social Movements .....	3
POLS-2610 American National Government .....	3
One from the following .....	3
GEO-3510 World Regional Geography West .....	3
GEO-3520 World Regional Geography East .....	3
HIST-3200 History and Politics of Latin America .....	3
HIST-3210 History and Politics of East Asia .....	3
HIST-3220 History and Politics of the Middle East .....	3
HIST-3540 History and Politics of Africa .....	3
<i>Reading/Language Arts</i> .....	36
*COM-1100 Fundamentals of Speech .....	3
*COM-2300 Voices of Diversity .....	3
COM-2320 Theories of Mass Media .....	3
*ENG-1400 Composition .....	3
ENG-2210 Principles of Journalism .....	3
ENG-3070 Adv. Grammar for Adolescent Teachers .....	3
*EDMC-3600 Phonics and the Structure of Language .....	3
*EDMC-3700 Teaching Reading / Middle Child. Lit. ....	4
*EDMC-3800 Writing Process and Language Arts .....	3
*EDMC- 4000 Reading in Content Area: Middle Child .....	3
*LIT-2300 Introduction to Literature .....	3
(or LIT-2340 Western Literature .....	3)
LIT-2390 Survey of American Literature to 1900 .....	3
THTR-3610 Teaching Creative Dramatics .....	2

\*Course also satisfies a general education requirement or a professional education requirement



A complete description of the general education requirements is found on page 18

**Middle Childhood Education Major Curriculum Summary**

Proficiency Requirements.....	0-5
General Education Requirements .....	57-65
Middle Childhood Education Major Requirements .....	48
Concentration Requirements.....	27-36
<b>Total (minimum, not including proficiency).....</b>	<b>132-149</b>

\*Total credits vary depending on concentrations chosen.

A complete description of the general education requirements is found on page 18

**Suggested Four-Year Curriculum for a Major in Middle Childhood Education**

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
EDUC-1800 Principles of Mathematics I.....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Concentration Electives .....	6-8
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>33.5-35.5</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
EDMC-2500 Educational Psychology of Middle Childhood .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multi-cultural Field Experience .....	1
EDUC-2800 Principles of Mathematics II.....	3
GSCI-1XXX Physical Science Elective.....	3.5-4
Concentration Electives .....	5-6
Global Geography Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>34.5-36</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
EDMC-3500 Principles of Teaching Middle School.....	3
EDMC-3600 Phonics and Structure of Language.....	3
EDMC-3700 Teaching Reading Middle Childhood Literature .....	4
EDMC-3950 Middle School Clinical I.....	2
EDSP-4000 Principles of Inclusion .....	1
HIST-3750 Social Movements .....	3
Concentration Electives .....	13-18
<b>Total.....</b>	<b>31-36</b>

*Fourth year:*

BEGE-3760 Christian Worldview Integration .....	2
COM-2300 Voices of Diversity .....	3
EDMC-4000 Reading in the Content Area Middle Childhood .....	3
EDMC-4050 Responsive Schools for Middle Childhood.....	2
EDMC-4440 Middle School Clinical II .....	2
EDMC-4900 Student Teaching and Seminar .....	10-12
EDMC-XXXX Middle School Methods II Concentration Areas.....	6
EDUC-4500 Philosophy of Education .....	2
Concentration Electives .....	3-4
<b>Total.....</b>	<b>33-36</b>

**Suggested Four-Year Curriculum for a Major in Early Childhood Education**

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition .....	3
GEO-3520 World Regional Geography: East .....	3
GSCI-1010 Principles of Earth Science.....	3.5
GSS-1100 Politics and American Culture .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PYCH-2700 Child Development .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>33</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
EDEC-2100 Art, Music, and Drama for Early Childhood.....	2
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDSP-2500 Survey of Mental Retardation & Dev. Disabilities.....	1
EDUC-1800 Principles of Mathematics I.....	3
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2300 Introduction to the Reading Process .....	2
EDUC-2400 Children's Literature .....	2
ESED-2900 Health and Movement Education.....	2
GSCI-2010 Physical Science for Teachers .....	4
HIST-3750 Social Movements .....	3
<b>Total.....</b>	<b>35</b>

*Third year:*

BEGE-3760 Christian Worldview Integration .....	2
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration.....	3
EDEC-3700 Teaching Reading: Phonics .....	3
EDEC-3800 Teaching Reading and Language Arts: Early Childhood .....	4
EDEC-3900 Field Experience in Early Childhood Education.....	1
EDEC-3950 Early Childhood Clinical I.....	3
EDSP-3100 Diagnostic and Remedial Reading.....	3
EDUC-2500 Educational Psychology .....	3
EDUC-2800 Principles of Mathematics II.....	3
HUM-1400 Introduction to the Humanities.....	3
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

*Fourth year:*

EDEC-4000 Reading in the Content Area: Early Childhood .....	2
EDEC-4100 Teaching Mathematics: Early Childhood.....	4
EDEC-4200 Teaching Science: Early Childhood .....	3
EDEC-4300 Teaching Social Studies: Early Childhood .....	3
EDEC-4450 Early Childhood Clinical II.....	3
EDEC-4900 Student Teaching and Seminar (Early Childhood).....	10-12
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDUC-4500 Philosophy of Education .....	2
<b>Total.....</b>	<b>29-31</b>

### Special Education

The **special education** major prepares teachers to work with students in grades pre-K to 12 who have mild to moderate special education needs.

Course requirements involve 76 semester hours including:

<i>Teacher Education Core (see page 81)</i> .....	12
<i>Special Education Foundations</i> .....	12
EDSP-2520 Survey of Mental Retardation and Developmental Disabilities: Special Education .....	2
EDSP-2600 Survey of Behavior Disorders .....	2
EDSP-3150 Intervention & Diag. in Reading Sp.Ed.....	3
EDUC-2300 Introduction to the Reading Process .....	2
PYCH-2600 Human Development: Lifespan .....	3
<i>Special Education Block</i> .....	15
EDSP-2300 Survey of Learning Disabilities .....	2
EDSP-4100 Adaptive Curriculum and Instruction.....	2
EDSP-4150 Career and Occupational Training .....	2
EDSP-4300 Behavior and Instructional Management.....	2
EDSP-4400 Assessment in Special Education.....	4
EDSP-4550 Special Education Clinical: AYA.....	3
<i>Reading Methods</i> .....	10
EDEC-3700 Teaching Reading: Phonics.....	3
EDEC-3800 Teaching Reading and Lang. Arts: E.C. ....	4
EDSP-3950 Special Ed. Clinical: Early Childhood .....	3
Early Childhood Methods II .....	17
EDEC-4000 Reading in the Content Area .....	2
EDEC-4100 Teaching Mathematics: Early Childhood .....	4
EDEC-4200 Teaching Science: Early Childhood.....	3
EDEC-4300 Teaching Social Studies: Early Childhood.....	3
EDSP-4450 Special Ed. Clinical: Middle Childhood.....	3
EDSP-4250 Communication, Collaboration and Inclusion Skills.....	2
<i>Student Teaching</i> .....	10-12
*EDSP-4900 Student Teaching and Seminar: Sp.E. ....	10-12
*Capstone Course	

#### Special Education Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	56.5-64.5
Special Education Major Requirements .....	76
<b>Total (minimum, not including proficiency)</b> .....	<b>132.5</b>

Special Education majors who wish to qualify for Early Childhood Education licensure (pre-K to grade 3 all subjects) may do so by adding the following courses. A combined special education/early childhood education student teaching (EDUC-4950) must be substituted for EDSP-4900, Student Teaching and Seminar: Special Education. The early childhood and special education student teaching experiences will be combined in a single semester-long experience.

<i>Additional Courses for dual licensure</i> .....	14.5-15
EDEC-2100 Art, Music, and Drama for Early Childhood .....	2
EDEC-3500 Early Childhood Education .....	3
EDEC-3600 Issues in Early Childhood Administration .....	3
EDEC-3900 Field Experience in Early Childhood Educ. ....	1
ESED-2900 Health and Movement Education .....	2
GSCI-1010 Principles of Earth Science.....	3.5
(or GSCI-2010 Physical Science for Teachers.....)	4)

#### Suggested Four-Year Curriculum for a Major in Multi-Age Special Education

##### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
EDUC-1800 Principles of Mathematics I.....	3
EDUC-2400 Children's Literature .....	2
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PYCH-2600 Human Development: Lifespan .....	3
Literature Elective .....	3
Physical Education Activity Elective.....	1
<b>Total</b> .....	<b>35.5</b>

##### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2520 Survey of Mental Retardation and Dev. Disabilities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDSP-2600 Survey of Behavior Disorders .....	2
EDSP-3150 Intervention & Diagnosis in Reading for Sp. Educators .....	3
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2300 Introduction to the Reading Process .....	2
EDUC-2500 Educational Psychology .....	3
EDUC-2800 Principles of Mathematics II.....	3
GSCI-2010 Physical Science for Teachers .....	4
HIST-3750 Social Movements .....	3
<b>Total</b> .....	<b>38</b>

##### Third year:

BEGE-3760 Christian Worldview Integration .....	2
EDEC-3700 Teaching Reading: Phonics .....	3
EDEC-3800 Teaching Reading & Language Arts: Early Childhood .....	4
EDEC-4000 Reading in the Content Area: Early Childhood .....	2
EDEC-4100 Teaching Mathematics: Early Childhood.....	4
EDEC-4200 Teaching Science: Early Childhood .....	3
EDEC-4300 Teaching Social Studies: Early Childhood .....	3
EDSP-3950 Special Education Clinical: Early Childhood .....	3
EDSP-4250 Communication, Collaboration, and Inclusion.....	2
EDSP-4450 Special Education Clinical: Middle Childhood.....	3
GEO-3520 World Regional Geography: East .....	3
<b>Total</b> .....	<b>32</b>

##### Fourth year:

EDSP-2300 Survey of Learning Disabilities.....	2
EDSP-4100 Adaptive Curriculum and Instruction .....	2
(or EDSP-4150 Career Educ. & Occ. Training for Exc. Indvls .....	2)
EDSP-4300 Behavior and Instructional Management .....	2
EDSP-4400 Assessment in Special Education.....	4
EDSP-4550 Special Education Clinical: Adolescent / Young Adult .....	3
EDUC-4500 Philosophy of Education .....	2
EDUC-4900 Student Teaching and Seminar: Special Education.....	10-12
<b>Total</b> .....	<b>25-27</b>

## Adolescent/Young Adult and Multi-Age Licensure Programs

The **adolescent/young adult licensure** programs prepare teachers to work with students in grades 7 to 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 students 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 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 and multi-age education majors and are prerequisites for admission to the teacher education program and upper-level classes.

<i>Teacher Education Core courses</i> .....	12
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDSP-2050 Special Education Field Experience .....	1
EDSP-2000 Teaching Children with Exceptionalities .....	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 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 junior year. The education department's licensure and testing coordinator provides students with specific information on procedures for admission to the TEP.

### Principles of Teaching Block (all AYA majors and MA Spanish)

The following courses are to be taken together just prior to the student teaching experience.

EDSE-4100 Principles of Teaching: AYA .....	5
<sup>1</sup> EDSE-3300 Developmental Reading .....	3
<sup>2</sup> EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4450 AYA Clinical Experience.....	3
EDSP-4000 Principles of Inclusion.....	1
Additional Requirements:	
<sup>3</sup> EDUC-4500 Philosophy of Education .....	2
EDSE-4900 Student Teaching and Seminar: AYA .....	10-12
(or EDUC-4900 Student Teaching and Seminar:MA.....	10-12)

<sup>1</sup>AYA integrated language arts majors only

<sup>2</sup>AYA integrated language arts does not take this course. AYA mathmajors may take this course out-of-class in the summer.

<sup>3</sup>Must have been admitted to the TEP or achieved junior status. Normally taken concurrently with student teaching.



### Course Descriptions

**EDUC-1000 The Education Profession—Fa,Sp 1 hour**

An introduction to the rewards and requirements of the teaching profession, including social issues and historical context of the profession. Focus is on the five domains of good teaching, teacher licensure, professional issues, and an overview of the mission statement, conceptual framework, and requirements of the teacher education program at Cedarville University.

**EDUC-1050 Contemporary Christian Schools—Fa,Sp 0 hours**

Teacher candidates arrange a field experience for five consecutive full days in a Christian 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**

A framework for the content of this course is Ohio's Competency Based Comprehensive Programs for Mathematics (NCTM Standards). The course utilizes a problem-solving approach and makes connections to real-world situations and other disciplines. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2000 Introduction to Teaching—Fa,Sp 2 hours**

An introduction to the structure, culture, governance, and philosophies of public schools in the United States. A history of American public education is presented, focusing on multicultural issues that affect American schooling. A general introduction to techniques of instruction and class management is presented. *Prerequisites: EDUC-1000 The Education Profession; ENG-1400 Composition; COM-1100 Fundamentals of Speech. Co-requisites: other courses in the Introduction to Teaching block. (Fee:\$40)*

**EDUC-2100 Technology in the Classroom—Fa,Sp 2 hours**

Teacher candidates learn to use a wide range of technology for developing and enhancing classroom instruction. The class focuses on the technology required for projects to be done in EDUC-2000 Introduction to Teaching and in the upper-level methods courses. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2200 Multicultural Field Experience—Fa,Sp 1 hour**

An introduction to the professional side of schooling through a four-week field experience in a multicultural school setting. Some field-based assignments focus on issues of multicultural education. *Prerequisites: EDUC-1000 The Education Profession; ENG-1400 Composition; COM-1100 Fundamentals of Speech. Co-requisites: other courses in the Introduction to Teaching block. (Fee: \$75)*

**EDUC-2300 Introduction to the Reading Process—Fa,Sp 2 hours**

An overview of philosophies of reading and approaches to reading instruction, including current issues. The class focuses on literacy, how it develops for young learners, and the experiences that influence literacy development. *Prerequisite: EDUC-1000 The Education Profession.*

**EDUC-2400 Children's Literature—Fa,Sp 2 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 class focuses on learning theory and the skills necessary to create and maintain an optimal learning environment in a diversity of settings. *Prerequisite: EDUC-1000 The Education Profession.*

**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 dept. chairperson.*

**EDUC-2800 Principles of Mathematics II—Fa,Sp 3 hours**

A course building on the NCTM standards-based framework begun in Principles of Math I and including a development of new mathematical topics that are connected to real world situations and other disciplines. *Prerequisite: EDUC-1800 Principles of Mathematics I.*

**EDUC-3030 Computers in Education—Su 3 hours**

This course prepares the teacher candidate to use computers and related technology to support instruction in the K-12 setting. Productivity tools, assistive technologies, and instructional strategies prepare the student for the practicum experience. *Prerequisite: EDUC-2100 Technology in the Classroom. Offered in Fall or Spring on an as-needed basis only.*

**EDUC-3560 Practicum in Educational Technology—Fa,Sp,Su 3 hours**

A placement in a K-12 setting under the supervision of a qualified technology director during which the teacher education teacher candidate assists in operation of the technology program. *Prerequisite: completion of 75% of the computer/technology endorsement or permission of instructor.*

**EDUC-3570 Supervised Field Experience 1-3 hours**

A 30-90 clock hour supervised placement in an early, middle, or adolescent/young adult classroom. Designed to give a transfer teacher candidate or a teacher candidate repeating other field experiences an analogous experience to those in the University's teacher education program.

**EDUC-3610 Practicum—Fa,Sp,Su 2 hours**

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 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. Ongoing during this experience, the student will analyze, evaluate, reflect on, and describe his/her field experience. *Prerequisite: LING-3700 Methods of Teaching Foreign Language. (Fee: \$45)*



**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 Reading in the Content Area: Multi-Age–Su (Out-of-Class) 3 hours**

An introduction to the range of strategies and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to provide increased comprehension of the textual material of the disciplines represented by students in the class. This course is for AYA Mathematics and MA Music and Physical Education teacher education program majors. *Prerequisite:* admission to the teacher education program or senior status and permission of department chair.

**EDUC-4500 Philosophy of Education–Fa,Sp 2 hours**

A critical analysis of foundational educational philosophies in the context of history and their impact on Christian educational philosophy. Examines current ethical and moral issues relevant to education, schooling, and the family. *Prerequisite:* admission to the teacher education program or permission of department chair. Normally taken with student teaching.

**EDUC-4510 Seminar in Cross Cultural Student Teaching–Fa,Sp 0 hours**

This seminar for students who will be student teaching cross culturally in a subsequent semester will introduce the requirements for completing Philosophy of Education while student teaching and address issues related to the cross cultural student teaching experience.

**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 education department chairperson, engage in an internship that involves the meaningful use of knowledge gained in previous education courses and experiences. A departmental faculty member will assist with the internship, arrangements, and evaluation of the experience. The department chair will approve the number of credit hours to be granted for the experience. *Prerequisite:* permission of the education department chairperson. (Fee: \$25)

**EDUC-4900 Student Teaching and Seminar: Multi-Age–Fa,Sp 10-12 hours**

A teaching experience working with students in a range of age levels 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. Capstone for the Multi-Age Physical Education Major. (Fee: \$100)

**EDUC-4910 Special Student Teaching 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 Student Teaching and Seminar in Special Education and Early Childhood–Fa,Sp 12 hours**

A full semester teaching experience with significant exposure in both special education and early childhood 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. (Fee: \$250)

**Early Childhood Education (EDEC)****EDEC-2100 Art, Music, and Drama for Early Childhood–Fa,Sp 2 hours**

An overview of the use of art, music, and drama to enhance the early childhood classroom. A strong emphasis on practical techniques and projects for personal expression based on an understanding of the importance of art, music, and drama at the system, school, classroom, and individual levels. *Prerequisite:* EDUC-1000 *The Education Profession*. (Fee: \$20)

**EDEC-3500 Early Childhood Education–Fa,Sp 3 hours**

An introductory descriptive overview of current early childhood education, including various approaches, programs, and curricula. Emphasis on the development, implementation, and evaluation of early childhood programs. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the E.C. Methods I block. (Fee: \$10)

**EDEC-3600 Issues in Early Childhood Administration–Fa,Sp 3 hours**

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 E.C. Methods I block.

**EDEC-3700 Teaching Reading: Phonics–Fa,Sp 3 hours**

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 place of phonics in the overall reading program for young children. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the E.C. Methods I block.

**EDEC-3800 Teaching Reading and Language Arts: Early Childhood–Fa,Sp 4 hours**

An introduction to the objectives, skills, instructional strategies, teaching aids, resource materials, and assessment techniques for teaching reading and the language arts to the early childhood student. An associated clinical experience provides theory-driven application. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the E.C. Methods I block.

**EDEC-3900 Field Experience in Early Childhood Education–Fa,Sp 1 hour**

An observation and participation experience in which teacher candidates spend 12-15 full consecutive days focusing on classroom routines and instruction in a kindergarten or other preschool classroom. Designed to give a practical field-based aspect to all of the courses in the Early Childhood Methods I block. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the E.C. Methods I block. (Fee: \$35)



### **EDEC-3950 Early Childhood Clinical I—Fa,Sp** **3 hours**

Teacher candidates spend 14-17 full consecutive days in an early childhood classroom including 12-15 days of teaching. 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 E.C. Methods I block. (Fee: \$105)

### **EDEC-4000** **2 hours**

#### **Reading in the Content Areas: Early Childhood—Fa,Sp**

An introduction to the dimensions, strategies, and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to increase comprehension of the textual material of the various disciplines taught in the elementary grades. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisite:* other courses in the Early Childhood Methods II block.

### **EDEC-4100** **4 hours**

#### **Teaching Mathematics: Early Childhood—Fa,Sp**

An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching mathematics to the young child, based on the Ohio Model and NCTM Standards. An associated clinical experience provides theory-driven application. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisite:* other courses in the E.C. Methods II block.

### **EDEC-4200** **3 hours**

#### **Teaching Science: Early Childhood—Fa,Sp**

An examination of science curricula for the young child with particular emphasis on the Ohio Model and the National Science Standards. Instructional methodologies that emphasize an inquiry approach will be modeled and practiced with attention given to a hands-on approach to instruction. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisite:* other courses in the E.C. Methods II block. (Fee: \$35)

### **EDEC-4300** **3 hours**

#### **Teaching Social Studies: Early Childhood—Fa,Sp**

An examination of social studies curricula for the young child with particular emphasis on the Ohio Model, the NASS Standards, 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. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisite:* other courses in the E.C. Methods II block.

### **EDEC-4450 Early Childhood Clinical II—Fa,Sp** **3 hours**

Teacher candidates spend 20-25 days in an early childhood classroom, 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 using Praxis/Pathwise criteria. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisite:* other courses in the E.C. Methods II block. (Fee: \$105)

### **EDEC-4900** **10-12 hours**

#### **Student Teaching and Seminar: Early Childhood—Fa,Sp**

A teaching experience in an early childhood setting under the supervision of the cooperating teacher and a university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. *Prerequisite:* successful completion of the E.C. Methods II block. (Fee: \$150)



### **Middle Childhood Education (EDMC)**

#### **EDMC-2500** **3 hours**

#### **Educational Psychology of Middle Childhood—Fa,Sp**

An introduction to the principles of learning and development in middle childhood students. The class focuses on learning theory and the factors that affect learning, teaching behavior, student needs, and the skills necessary to create and maintain an optimal learning environment for middle school students in a variety of settings. *Prerequisite:* EDUC-1000 *The Education Profession.*

#### **EDMC-3300** **3 hours**

#### **Topics in Middle School Mathematics—Sp**

An investigative approach to selected mathematics topics that are taught in middle schools. Topics include logic, mathematics modeling, formulating, and problem solving in both mathematical and every day life situations. Real world connections with opportunities for exploration and communication by written, oral, and technological presentations are provided. *Prerequisite:* EDUC-2800 *Principles of Mathematics II.*

#### **EDMC-3500** **3 hours**

#### **Principles of Teaching Middle School—Sp**

Teacher candidates learn to develop instruction and various types of assessment 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. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the M.C. Methods I block.

#### **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.

#### **EDMC-3700** **4 hours**

#### **Teaching Reading Through Middle School Literature—Sp**

A survey of the early history, major types, and modern trends of literature for children in grades 4-9. The social and personal value of literature is studied along with methods for using trade books to support reading instruction in an integrated reading/writing/language arts program. *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 School–Sp**  
 A study of the curriculum, methods, and resources for assessing and teaching of the language arts at the middle school level. Emphasis will be on an integrated reading/writing/ language arts program and its importance across the curriculum. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the M.C. Methods I block.
- EDMC-3950** **2 hours**  
**Middle School Clinical I: Teaching Reading–Sp**  
 This experience provides for implementation of the objectives, skills, and strategies of instruction relative to middle grade reading instruction in a field-based setting. Teacher candidates are formally supervised and evaluated by cooperating teachers and university supervisors using Praxis/Pathwise criteria. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the M.C. Methods I block. (Fee: \$90)
- EDMC-4000** **3 hours**  
**Reading in the Content Area: Middle Childhood–Fa**  
 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:* successful completion of the M.C. Methods I block. *Corequisite:* other courses in the M.C. Methods II block.
- EDMC-4100** **3 hours**  
**Teaching Mathematics: Middle Childhood–Fa**  
 An introduction to the objectives, skills, and instructional strategies for teaching middle school mathematics, based on the Ohio Model and NCTM Standards. An associated clinical experience provides opportunity for theory-driven application of knowledge and skills. *Prerequisite:* successful completion of the M.C. Methods I block. *Corequisite:* other courses in the M.C. Methods II block.
- EDMC-4200 Teaching Science: Middle Childhood–Fa** **3 hours**  
 An introduction to the objectives, skills, and instructional strategies for teaching middle school science, based on the Ohio Model and NSTA Standards. The course provides a particular emphasis on hands-on science instruction, the scientific method, and the integration of science 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-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: 75)
- EDMC-4440 Middle Childhood Clinical II–Fa** **2 hours**  
 This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. *Prerequisite:* successful completion of the M.C. Methods I block. *Corequisite:* other courses in the M.C. Methods II block. (Fee: \$105)
- EDMC-4900** **10-12 hours**  
**Student Teaching and Seminar: Middle Childhood–Fa,Sp**  
 A teaching experience in a middle childhood setting under the supervision of the cooperating teacher and the university supervisor. Required seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. *Prerequisite:* successful completion of the M.C. Methods II block. (Fee: \$180)
- Adolescent / Young Adult (EDSE)**  
**EDSE-3100** **3 hours**  
**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. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the AYA Principles of Teaching block or permission of department chair.
- EDSE-3300 Developmental Reading–Sp** **3 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. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the AYA Principles of Teaching block or permission of department chair. (Fee: \$60)
- EDSE-3800** **2 hours**  
**Teaching Social Studies: Adolescent and 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 AYA Principles of Teaching block or permission of department chair.
- EDSE-3900 Music Education Clinical–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 EDMU-3710 Music for Early Childhood; and/or EDMU-3720 Music for Adolescent/Young Adults. (Fee: \$75)



### EDSE-4000 3 hours

#### Reading in the Content Areas: Adolescent and Young Adult—Fa

An introduction to the range of strategies and programs for learning and teaching the reading process, including the nature of the reading process, assessment techniques, and instructional strategies to provide increased comprehension of the textual material of the disciplines represented by teacher candidates in the class. This class is for MA Spanish and AYA teacher education program majors. *Prerequisite:* admission to the teacher education program. *Corequisites:* other courses in the AYA Principles of Teaching block or permission of department chair. (Fee: \$60)

### EDSE-4100 5 hours

#### Principles of Teaching: Adolescent and Young Adult—Fa,Sp

An introduction to the objectives, skills, and instructional strategies needed for the teaching of adolescent and young adult students. An associated field experience gives opportunity to apply the knowledge and skills learned in the course. *Prerequisite:* admission to the teacher education program. *Corequisites:* other courses in the AYA Principles of Teaching block.

### EDSE-4450 3 hours

#### Adolescent / Young Adult Clinical Experience—Fa,Sp

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 AYA Principles of Teaching block. (Fee: \$75)

### EDSE-4900 10-12 hours

#### Student Teaching and Seminar: Adolescent / Young Adult—Fa,Sp

A teaching experience in an adolescent/young adult setting under the supervision of the cooperating teacher and the university supervisor. Required seminars encourage reflection on the teaching experience, as well as discussion of issues of importance to educators. (Fee: \$150).

### Early Childhood/Special Education (ECSP)

### ECSP-2500 3 hours

#### Young Children with Special Needs—Sp

An introduction to the education of young children with special needs. The course will focus on child development and factors affecting development, partnership with families, as well as strategies for nurturing language and cognitive development. *Prerequisite:* EDUC-1000 *The Education Profession, Introduction to Teaching Block.*



### ECSP-3500 3 hours

#### Assessing & Teaching Young Children w/ Special Needs—Sp

A study of educational tests and materials for teaching and assessing young children with disabilities. Teacher candidates will develop assessment strategies and lesson plans for children in pre-Kindergarten special education programs. *Prerequisite:* EDUC-1000 *The Education Profession, Introduction to Teaching Block, ECSP-2500 Young Children with Special Needs.*

### ECSP-3550 3 hours

#### Clinical: Young Children w/ Special Needs—Sp

The course provides a clinical experience for the development of skills and strategies for instruction of students with exceptional educational needs in a pre-Kindergarten setting. Emphasis is on understanding of development and adaptation of curriculum, materials, and teaching skills. *Prerequisite:* ECSP-2500 *Young Children with Special Needs, ECSP-3500 Assessing & Teaching Young Children with Special Needs.* (Fee: \$110)

### Special Education (EDSP)

### EDSP-2000 2 hours

#### Teaching Children with Exceptionalities—Fa,Sp

An exploration of the implications of federal laws with an emphasis on the definitions, characteristics, and strategies for intervention in inclusive settings. The course includes an introduction to the use of assistive technology. *Prerequisite:* EDUC-1000 *The Education Profession. Corequisites:* other courses in the *Introduction to Teaching block.*

### EDSP-2050 1 hour

#### Special Education Field Experience—Fa,Sp

A field-based experience in special education in which the teacher candidate observes and participates with the teacher in assisting learners with special educational needs. *Prerequisites:* COM-1100 *Fundamentals of Speech; ENG-1400 Composition; EDUC-1000 The Education Profession. Corequisites:* other courses in the *Introduction to Teaching block.*

### EDSP-2300 Survey of Learning Disabilities—Fa 2 hours

An overview of the theories, research, and practices related to the education of individuals with learning disabilities. Emphasis is given to characteristics, assessment, and effective instruction. *Prerequisite:* admission to the teacher education program. *Corequisites:* other courses in the *Special Education block.*

### EDSP-2500 1 hour

#### Survey of Mental Retardation and Developmental Disabilities: Early Childhood—Su (Out of class)

Survey of the multidisciplinary perspectives, identification, early influences, causation, levels of support, and practices related to the education of individuals with mental retardation and developmental disabilities in early childhood. Offered summers only in a mediated (out-of-class) format. (Fee: \$60).

### EDSP-2510 1 hour

#### Survey of Mental Retardation and Developmental Disabilities—Su

An extended overview of the theories, research, and practices related to the education of individuals with mental retardation and/or developmental disabilities. For early childhood and special education double majors who have already taken EDSP-2500 *Survey of Mental Retardation and Developmental Disabilities: Early Childhood* and need to complete the requirements for EDSP-2520 *Survey of Mental Retardation and Developmental Disabilities: Special Education.* Emphasis on causal factors, assessment, and management. *Prerequisites:* successful completion of the *Introduction to Teaching block* or permission of department chair; EDSP-2500.



- EDSP-2520** **2 hours**  
**Survey of Mental Retardation and Developmental Disabilities: Special Education—Su**  
 An overview of the theories, research, and practices related to the education of individuals with mental retardation and developmental disabilities. Emphasis on causal factors, assessment, and educational implications. *Prerequisite:* successful completion of the Introduction to Teaching block or permission of department chair.
- EDSP-2600** **2 hours**  
**Survey of Behavior Disorders—Su**  
 An overview of the theories, research, and practices related to the education of individuals with emotional and/or behavioral disorders. Emphasis on causal factors, assessment, and management. Taken in a special two-week block during the sophomore summer. *Prerequisite:* successful completion of Introduction to Teaching Block or permission of instructor. (Fee: \$150)
- EDSP-3100** **3 hours**  
**Diagnostic and Remedial 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:* EDUC-2300 Introduction to the Reading Process. For Early Childhood majors. (Fee: \$60)
- 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; EDUC-2300 Introduction to the Reading Process. For Special Education majors. (Fee: \$60)
- EDSP-3950** **3 hours**  
**Special Education Clinical: Early Childhood—Fa,Sp**  
 An introduction to the objectives, skills, instructional strategies, teaching aids, and resource materials for teaching reading and the language arts to students with and without mild-moderate needs at the early childhood level. *Prerequisites:* admission to the teacher education program; major in special education. *Corequisite:* other courses in the Early Childhood Methods I block. (Fee: \$105)
- EDSP-4000** **1 hour**  
**Principles of Inclusion—Fa,Sp**  
 An examination of the theories, research, and practices of adapting and modifying curriculum, instruction, and the learning environment for students with special educational needs. An accompanying clinical experience allows teacher candidates to implement what they have learned. *Prerequisite:* admission to the teacher education program. *Corequisite:* enrollment in the appropriate upper-level methods block.
- EDSP-4100** **2 hours**  
**Adaptive Curriculum and Instruction—Fa**  
 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-4150** **2 hours**  
**Career and Occupational Training—Fa**  
 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 Skills—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. *Prerequisite:* admission to the teacher education program. *Corequisite:* Other courses in the Methods II block.
- EDSP-4300** **2 hours**  
**Behavioral and Instructional Management—Fa**  
 A presentation of the learning theory, motivation, and behavioral approaches to management of the social and academic environment of learners with mild-moderate special educational needs. Emphasis is on applied behavior analysis and functional assessment. *Prerequisite:* admission to the teacher education program. *Corequisites:* other courses in the Special Education block.
- EDSP-4400** **4 hours**  
**Assessment in Special Education—Fa**  
 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.
- EDSP-4450** **3 hours**  
**Special Education Clinical: 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. *Prerequisite:* successful completion of the E.C. Methods I block. *Corequisites:* other courses in the E.C. Methods II block. (Fee: \$105)
- EDSP-4550** **3 hours**  
**Special Education Clinical: Adolescent and Young Adult**  
 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. *Prerequisite:* admission to the teacher education program. *Corequisite:* other courses in the Special Education block. (Fee: \$105)
- EDSP-4900** **10-12 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. *Prerequisite:* successful completion of the Early Childhood Methods II and Special Education blocks. (Fee: \$150)



## Mission Statement

The programs in the Elmer W. Engstrom Department of Engineering and Computer Science at Cedarville University blend the academic subjects required of all accredited engineering and computer science programs with “hands-on” experience through extensive laboratory work and design projects. Our engineering curricula introduce freshmen to 3-D Solid Modeling and digital electronics. Our computer science curriculum requires freshmen to begin programming in the very first semester. This early exposure provides students with practical experience and insight into subsequent theory.

Our programs enjoy the rich, technical environment fostered in the surrounding community and the frequent opportunities to interact with professionals working on the latest aerospace, automotive, and electronics technology.

The department faculty has the following vision: “We, the Elmer W. Engstrom Department 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 department of engineering offers the following programs of study:

### Majors

- Computer Science (B.S.)
- Computer Engineering (B.S.Cp.E.)
- 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.E.E. and B.S.M.E. programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

### Registration as a Professional Engineer

Senior engineering majors and graduate engineers are eligible to take the NCEES Fundamentals of Engineering (FE) Examination offered by the Ohio Society of Professional Engineers. This exam is the first of two required to become a registered professional engineer and is offered each spring at Cedarville University (CU). CU seniors have passed the FE exam at a rate which is consistently higher than the national pass rates.

## Personal Requirements

Whereas many recent high school graduates are undecided when it comes to selecting a major in college, our programs exhibit some measure of flexibility. First-year students trying to decide between computer science (CS) and computer engineering (CpE) will be enrolled in at least two courses common to both programs. First-year students looking at either electrical engineering (EE) or CpE as a major will be encouraged to take their first programming course with the CpE and CS students.

All first year engineering students will take the same three freshman-level engineering courses as part of their program. Faculty advisors, the career services office, and tours of local industry represent some of the resources available to students contemplating which major to choose.

## Department Requirements

### New students

Students who enjoy and excel in science and mathematics 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 1010) in order to declare a major in the department. Students who do not meet this standard or do not demonstrate equivalent competency may request admission to the department on a provisional status.

To prepare for engineering or computer science, high school students should take a college preparatory curriculum that includes:

- 4 units of English
- 4 units of mathematics (algebra, geometry, trigonometry, and advanced mathematics or precalculus)
- 4 units of science (physical science, biology, chemistry, and physics)
- 3 units of social science
- 2 units of the same foreign language

Though not essential, students would benefit from having some computer programming experience using a language such as VisualBasic, C++, or JAVA. Experience with spreadsheets and word processors is also helpful.

### Retention Requirement

Our 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 program within the department has its own specific retention requirements as follows.

#### Computer Science

In order to advance in the computer science program, CS majors must achieve a grade of at least a C- in the following courses: CS-1210, 1220, 2210, 3410, 4810, and MATH-1710, 2510.

#### Computer Engineering

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810, 2510, and 2630.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CS-1210, 1220, and 2210; MATH-1710, 1720, and 2740; and PHYS-2110 and 2120.

#### Electrical Engineering

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810, 2510, and 2630.

In addition, EE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CS-1210; MATH-1710, 1720, 2710, and 2740; and PHYS-2110 and 2120.

#### Mechanical Engineering

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, 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

1. Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
2. 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, and a parallel computing cluster. We also have extensive PC-based laboratories in which the students use computer-based circuit design, 3-D solid modeling, FEA, CFD, CNC, and industry-standard IDE software.

## Co-Curricular Opportunities

Engineering freshmen participate in the annual Cardboard Canoe Challenge. Other course-based competitions include statics and dynamics design competitions for sophomores, the Advanced Digital Logic Design competition, and the 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, ASME, IEEE, SAE, ASEE, and SWE. Our students participate in Aero Design<sup>®</sup>, Formula SAE<sup>®</sup>, international programming, Mini Baja<sup>®</sup>, robotics, Solar Splash<sup>®</sup>, and Supermileage<sup>®</sup> competitions.

Recently, Cedarville University took first place in SAE's Supermileage<sup>®</sup> (2000), SAE's Aero Design<sup>®</sup> West (2003), AEC/ASME's Solar Splash<sup>®</sup> (2004, 2005), and ASEE's robotics competition (2001, 2002, 2003).

## 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 EKG and ultra-sound 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 which 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 objectives of the Elmer W. Engstrom Department of Engineering and Computer Science faculty are that students who graduate with undergraduate engineering degrees from Cedarville University would be characterized by the following:

1. They will possess the skills necessary to function competently in entry-level engineering positions in industry within the field of engineering for which they have prepared.
2. They will be adequately prepared for graduate-level education programs.
3. They will be knowledgeable of the benefits of continued professional development and the options available to them to remain current in their field of interest.
4. They will be knowledgeable of opportunities to serve in and support Christian ministries both in their communities and around the world.

## Educational Philosophy for Engineering Programs

Each engineering program requires 140 hours to complete; of these, at least 67 hours are engineering topics. The programs are designed to give our graduates a solid background in engineering science and a meaningful design experience at the senior level appropriate to the chosen field of study. Although there are distinctives between the specific engineering programs (see the department Web site), the educational philosophy for all of the engineering programs can be summarized as follows:

1. Expose students to the basic laws of nature to encourage an understanding of the creation.
2. Equip students with mathematical modeling tools which will enable them to describe the behavior of systems.
3. Require students to apply theoretical models, computer simulations, and laboratory experimentation to analyze engineering systems.
4. Require students to use analytical and numerical techniques to systematically solve engineering problems.
5. Require students to work in teams to solve engineering problems.
6. Equip students to evaluate designs for conformance to technical and ethical standards.
7. Require students to demonstrate effective oral and written communication skills.
8. Promote engineering as a profession, encourage participation in engineering organizations, and foster professional development.
9. Encourage students to see engineering in the broader context of general education, to grow in their relationship with Jesus Christ, and to apply a Christian worldview to all life and learning.

The educational philosophy supports ABET's Criterion 3 desired outcomes (a) through (k).

## Faculty

**Samuel SanGregory**, *Chairman*: Associate Professor of Electrical Engineering. *Education*: B.S.E., Wright State University, 1988; M.S.C.E., Air Force Institute of Technology, 1992; Ph.D., Air Force Institute of Technology, 1999. At Cedarville since 1993.

**Robert Chasnov**, *Assistant to the Chair*: 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.

**Charles Allport**, *Assistant to the Academic Vice President*: Associate Professor of Mechanical Engineering. *Education*: B.S., United States Air Force Academy, 1962; M.A., George Washington University, 1963; M.S.E., Arizona State University, 1965; registered professional engineer. At Cedarville since 1990.

**Stanley Baczek**, *Dean, School of Engineering, Nursing, and Science*: Professor of Polymer Science and Engineering. *Education*: B.S., Southeastern Massachusetts University, 1969; M.S., University of Massachusetts, 1975; Ph.D. University of Massachusetts, 1977. At Cedarville since 2003.

**Gerald Brown**, Assistant Professor of Electrical Engineering. *Education*: B.Engr., McMaster University, 1982; M.Engr., McMaster University, 1984; Ph.D., McMaster University, 1989. At Cedarville since 2004.

**Peter Burban**, Associate Professor of Mechanical Engineering. *Education*: B.S.Ch.E., University of Illinois, 1980; Ph.D., University of Delaware, 1984. At Cedarville since 2001.

**Timothy Dewhurst**, 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.

**Vicki Fang**, Assistant Professor of Computer Engineering. *Education*: B.S.E.E., Shanghai Jiao Tong University, 1992; M.S.E.T., Pittsburg State University, 1998; Ph.D., The University of Akron, 2004. At Cedarville since 2004.

**David M. Gallagher**, Professor of Computer Science. *Education*: B.S., Electrical Engineering, United States Air Force Academy, 1978; M.S., Electrical Engineering, Air Force Institute of Technology, 1987; Ph.D., Electrical Engineering, University of Illinois, 1995. At Cedarville since 2000.

**Harwood Hegna**, Professor 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.

**Jay H. Kinsinger**, Assistant Professor of Mechanical Engineering. *Education*: B.S., Mechanical Engineering and Manufacturing Engineering Technologies, University of Dayton, 1993; M.S., Rehabilitation Engineering, Wright State University, 2000. At Cedarville since 1999.

**Clint Kohl**, Associate Professor of Electrical 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.

**Robert Laramore**, Professor of Electrical Engineering. *Education*: B.S.E.E., University of Missouri at Rolla, 1973; M.S.E.E., University of Missouri at Rolla, 1975; registered professional engineer. At Cedarville since 1992.

**Timothy Norman**, Professor of Mechanical Engineering. *Education*: B.S.A.A.E., Purdue University, 1982; M.S.A.A.E. Purdue University, 1986; Ph.D., Purdue University, 1989. At Cedarville since 2003.

**Robert Schumacher**, Assistant Professor of Mathematics and Computer Science. *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.

**Keith Shomper**, Associate 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.

**D. Jeff Shortt**, Associate 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**, Associate 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**, Assistant Professor of Electrical Engineering. *Education*: B.S.E.E., Cedarville University, 1996; M.S.E.E., University of Dayton, 1998; Ph.D. in progress (ABD), University of Dayton. At Cedarville since 2002.

**Lawrence Zavodney**, 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

**David Denlinger**, Mechanical Engineering Technician. At Cedarville since 1993.

**James Landers**, Computer and Electrical Engineering Technician. *Education*: Gateway Electronics, Microsoft, FCC. At Cedarville since 2005.

## Engineering Advisory Council

The Engineering Advisory Council consists of professional engineers, researchers, and business leaders representing a variety of engineering-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 education.

Council members include:

*Eugene Apple, General Electric Corporation, retired*  
*Ronald Baker, Hi-Tech Aero Spares*  
*Carl Bertsche, Jr., Production Engineering Company*  
*James Brandeberry, Wright State University*  
*Joe Buonodono, Johnson Controls, Inc.*  
*Hal Carter, University of Cincinnati*  
*Gary Clasby, Duriron Company, Inc.*  
*Harry Couch, Delco Products Division GMC*  
*Kevin Crawford, Dayton Power and Light*  
*Tom Curran, WPAFB, Aero Propulsion and Power, retired*  
*Jerry Drobinski, Global Development and Sourcing, Inc.*  
*William Engstrom, Engstrom Foundation*  
*Stephen Harris, Rixan Associates, Inc.*  
*Richard Holmes, Holmes and Mays*  
*Phillip Houston, Greene County Department of Development*  
*Dan Kerr, GM Specialty Cars Division*  
*Frank Klatt, Rockwell International, retired*  
*Ed Krupka, Burris Logistics*  
*Tim Lawrence, Ball Aerospace and Technologies Corp.*  
*Joe Mays, Holmes and Mays*  
*Walker Mitchell, Mitchell Consulting*  
*Bob Porter, Xetron (Northrop Grumman)*  
*Terry Smith, Rittal Corporation*  
*Ted Tate, Tate Model and Engineering, Inc.*  
*Jay Tieber, Ohio Department of Development*  
*Walt Weisel, Robotic Workspace Technologies*  
*Don Wilkinson, ODL, Inc.*  
*Bryan Williams, Procter and Gamble*  
*Riad Yammine, Speedway/Super America, retired*  
*Edwin Young, University of Michigan*

### 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 chairperson.

Course requirements involve 73.5 semester hours including:

<i>Computer Science Core Requirements</i> .....	42
CS-1210 C++ Programming .....	2
CS-1220 Object-Oriented Design Using C++ .....	3
CS-2210 Data Structures Using Java.....	3
CS-3210 Programming Language Survey.....	3
CS-3310 Operating Systems.....	3
CS-3410 Algorithms.....	3
CS-3510 Compiler Theory and Practice.....	3
CS-3610 Database Organization and Design .....	3
*CS-4810,4820 Software Engineering I, II.....	7
EGCP-1010 Digital Logic Design .....	3
EGCP-2110 Microprocessors .....	3
EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar.....	0
MATH-2510 Discrete Mathematics for Comp. Science .....	3
<i>Technical Electives chosen from the following</i> .....	7
Any 3000- or 4000-level computer science course.....	1-3
EGCP-3010 Advanced Digital Logic Design .....	3
EGCP-3210 Computer Architecture.....	3
EGCP-4210 Advanced Computer Architecture.....	3
MATH-3610 Linear Algebra.....	3
<i>Other courses with pre-approval of department chair</i>	
<i>Required Cognates</i> .....	24.5
CHEM-1050 Chemistry for Engineers .....	3.5
(or CHEM-1110 General Chemistry I .....	4)
MATH-1710,1720 Calculus I, II.....	10
MATH-3110 Probability and Statistics I .....	3
PHYS-2110, 2120 General Physics I, II.....	8
*Capstone Course	
<b>Computer Science Major (B.S.) Curriculum Summary</b>	
Proficiency Requirements.....	0-6
Other General Education Requirements .....	42.5
Computer Science Major Requirements.....	73.5
Electives .....	12
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Computer Science–B.S.

<i>First year:</i>	
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CS-1210 C++ Programming .....	2
CS-1220 Object Oriented Design Using C++ .....	3
EGCP-1010 Digital Logic Design.....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>
<i>Second year:</i>	
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
CHEM-1050 Chemistry for Engineers.....	3.5
COM-1100 Fundamentals of Speech.....	3
CS-2210 Data Structures Using Java .....	3
CS-3210 Programming Language Survey.....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-2510 Discrete Mathematics for Computer Science .....	3
PHYS-2110, 2120 General Physics I, II.....	8
<b>Total.....</b>	<b>32.5</b>
<i>Third year:</i>	
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-1000 Principles of Biology .....	3.5
CS-3310 Operating Systems .....	3
CS-3410 Algorithms.....	3
CS-3510 Compiler Theory and Practice .....	3
CS-3610 Database Organization and Design.....	3
EGCP-2110 Microprocessors .....	3
MATH-3110 Probability and Statistics I.....	3
History Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>31.5</b>
<i>Fourth year:</i>	
CS-4810, 4820 Software Engineering I, II .....	7
CS Technical Electives.....	7
EGGN-3110 Professional Ethics.....	3
EGGN-4010 Senior Seminar .....	0
Social Science/Global Awareness Elective .....	3
Electives.....	12
<b>Total.....</b>	<b>32</b>

## Computer Engineering

Course requirements for the B.S.Cp.E. degree are comprised of the following and may be modified by the department chairperson.

Course requirements involve 70 semester hours including:

CS-1210 C++ Programming .....	2
CS-1220 Object Oriented Design with C++ .....	3
CS-2210 Data Structures Using Java .....	3
CS-3310 Operating Systems .....	3
CS-3410 Algorithms .....	3
EGCP-1010 Digital Logic Design .....	3
EGCP-2110 Microprocessors .....	3
EGCP-3010 Advanced Digital Logic Design .....	3
EGCP-3210 Computer Architecture .....	3
EGCP-4210 Advanced Computer Architecture .....	3
*EGCP-4810 Computer Engineering Senior Design I .....	4
*EGCP-4820 Computer Engineering Senior Design II .....	4
EGEE-2010 Circuits .....	5
EGEE-3110 Linear Systems .....	3
EGEE-3210 Electronics I .....	3
EGGN-1110 The Engineering Profession .....	1
<sup>1</sup> EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar .....	0
EGME-1810 Engineering Graphics .....	1
EGME-2510 Statics .....	3
EGME-2630 Dynamics .....	3
EGME-3170 Thermal Systems .....	2
MATH-2510 Discrete Math: Computer Science .....	3
<sup>2</sup> Two Technical Electives (must include one 4000-level course) .....	6

Required Cognates .....	27.5
<sup>3</sup> CHEM-1050 Chemistry for Engineers .....	3.5
<sup>4</sup> MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
MATH-2740 Differential Equations .....	3
MATH-3110 Probability and Statistics I .....	3
PHYS-2110 General Physics I .....	4
PHYS-2120 General Physics II .....	4

- <sup>1</sup>Satisfies humanities general education requirements
- <sup>2</sup>Technical electives must have EGXX or CS designation at 3000- or higher level
- <sup>3</sup>Satisfies physical science general education requirements
- <sup>4</sup>Satisfies mathematics general education requirements
- \*Capstone Course

### Computer Engineering Major Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	42.5
Comprehensive Computer Engineering Requirements .....	70
Required Cognates .....	27.5
<b>Total (minimum, not including proficiency) .....</b>	<b>140</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Computer Engineering

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
CHEM-1050 Chemistry for Engineers .....	3.5
CS-1210 C++ Programming .....	2
CS-1220 Object Oriented Design with C++ .....	3
EGCP-1010 Digital Logic Design .....	3
EGGN-1110 The Engineering Profession .....	1
EGME-1810 Engineering Graphics .....	1
MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
PHYS-2110 General Physics I .....	4
<b>Total .....</b>	<b>33.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
COM-1100 Fundamentals of Speech .....	3
CS-2210 Data Structures Using Java .....	3
EGEE-2010 Circuits .....	5
EGME-2510 Statics .....	3
EGME-2630 Dynamics .....	3
ENG-1400 Composition .....	3
MATH-2740 Differential Equations .....	3
MATH-2510 Discrete Math: Computer Science .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PHYS-2120 General Physics II .....	4
Physical Education Activity Elective .....	1
<b>Total .....</b>	<b>35</b>

#### Third year:

BEGE-2740 New Testament Literature .....	3
CS-3310 Operating Systems .....	3
CS-3410 Algorithms .....	3
EGCP-2110 Microprocessors .....	3
EGCP-3010 Advanced Digital Logic Design .....	3
EGCP-3210 Computer Architecture .....	3
EGEE-3110 Linear Systems .....	3
EGEE-3210 Electronics I .....	3
EGGN-3110 Professional Ethics .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to Humanities .....	3
Literature Elective .....	3
<b>Total .....</b>	<b>36</b>

#### Fourth year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
EGCP-4210 Advanced Computer Architecture .....	3
EGCP-4810 Computer Engineering Senior Design I .....	4
EGCP-4820 Computer Engineering Senior Design II .....	4
EGGN-4010 Senior Seminar .....	0
EGME-3170 Thermal Systems .....	2
MATH-3110 Probability and Statistics I .....	3
Biology Elective .....	3.5
Computer Engineering Electives .....	6
History Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total .....</b>	<b>35.5</b>

### Electrical Engineering

Course requirements for the B.S.E.E. degree are comprised of the following and may be modified by the department chairperson.

Course requirements involve 67 semester hours including:

CS-1210 C++ Programming .....	2
EGCP-1010 Digital Logic Design .....	3
EGCP-2110 Microprocessors .....	3
EGEE-2010 Circuits .....	5
EGEE-3110 Linear Systems .....	3
EGEE-3210 Electronics I .....	3
EGEE-3220 Electronics II .....	5
EGEE-3310 Electromagnetics .....	3
EGEE-3330 Communications Theory .....	4
EGEE-4110 Digital Signal Processing .....	2
EGEE-4410 Feedback Control Systems .....	4
*EGEE-4810 Electrical Engineering Senior Design I .....	4
*EGEE-4820 Electrical Engineering Senior Design II .....	4
EGGN-1110 The Engineering Profession .....	1
<sup>1</sup> EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar .....	0
EGME-1810 Engineering Graphics .....	1
EGME-2510 Statics .....	3
EGME-2630 Dynamics .....	3
EGME-3170 Thermal Systems .....	2
<sup>2</sup> Three Technical Electives (must include one 4000-level course) .....	9

Required Cognates..... 30.5

<sup>3</sup>CHEM-1050 Chemistry for Engineers ..... 3.5

<sup>4</sup>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 ..... 4

Select one Mathematics Elective from the following ..... 3

EGEE-3370 Probability and Random Processes for Engineers ..... 3

MATH-3610 Linear Algebra..... 3

MATH-3740 Complex Variables..... 3

<sup>1</sup>Satisfies humanities general education requirements

<sup>2</sup>Technical electives must have EGXX designation at 3000- or higher level

<sup>3</sup>Satisfies physical science general education requirements

<sup>4</sup>Satisfies mathematics general education requirements

\*Capstone Course

### Electrical Engineering Major Curriculum Summary

Proficiency Requirements..... 0-5

General Education Requirements ..... 42.5

Comprehensive Electrical Engineering Requirements ..... 67

Required Cognates..... 30.5

**Total (minimum, not including proficiency) ..... 140**

### Suggested Four-Year Curriculum for a Major in Electrical Engineering

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1050 Chemistry for Engineers.....	3.5
CS-1210 C++ Programming .....	2
EGCP-1010 Digital Logic Design.....	3
EGGN-1110 The Engineering Profession .....	1
EGME-1810 Engineering Graphics.....	1
ENG-1400 Composition .....	3
MATH-1710 Calculus I.....	5
MATH-1720 Calculus II.....	5
PHYS-2110 General Physics I.....	4
<b>Total.....</b>	<b>33.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
COM-1100 Fundamentals of Speech.....	3
EGCP-2110 Microprocessors .....	3
EGEE-2010 Circuits.....	5
EGME-2510 Statics .....	3
EGME-2630 Dynamics .....	3
GSS-1100 Politics and American Culture .....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PHYS-2120 General Physics II.....	4
Physical Education Elective .....	1
<b>Total.....</b>	<b>35</b>

#### Third year:

BEGE-2740 New Testament Literature.....	3
EGEE-3110 Linear Systems .....	3
EGEE-3210 Electronics I .....	3
EGEE-3220 Electronics II .....	5
EGEE-3310 Electromagnetics .....	3
EGEE-3330 Communications Theory.....	4
EGGN-3110 Professional Ethics.....	3
HUM-1400 Introduction to Humanities.....	3
Electrical Engineering Elective.....	3
Mathematics Elective.....	3
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>36</b>

#### Fourth year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
EGEE-4110 Digital Signal Processing .....	2
EGEE-4410 Feedback Control Systems.....	4
EGEE-4810 Electrical Engineering Senior Design I .....	4
EGEE-4820 Electrical Engineering Senior Design II .....	4
EGGN-4010 Senior Seminar .....	0
EGME-3170 Thermal Systems .....	2
Biology Elective.....	3.5
Electrical Engineering Electives.....	6
History Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>35.5</b>

## Mechanical Engineering

Course requirements for the B.S.M.E. degree are comprised of the following and may be modified by the department chairperson.

Course requirements involve 70 semester hours including:

EGCP-1010 Digital Logic Design .....	3
EGEE-2050 Circuits and Instrumentation.....	4
EGEE-3530 Electrical Machines .....	3
EGGN-1110 The Engineering Profession.....	1
<sup>1</sup> EGGN-3110 Professional Ethics .....	3
EGGN-4010 Senior Seminar .....	0
EGME-1810 Engineering Graphics .....	1
EGME-2050 Computational Methods.....	4
EGME-2310 Manufacturing & Finance .....	3
EGME-2410 Properties of Engineering Materials.....	4
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
<i>Engineering Electives (must include one 4000-level course) .....</i>	<i>6</i>

*Required Cognates.....* 27.5

<sup>2</sup> CHEM-1050 Chemistry for Engineers .....	3.5
<sup>3</sup> 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 .....	4

- <sup>1</sup>Satisfies humanities general education requirements
- <sup>2</sup>Satisfies physical science general education requirements
- <sup>3</sup>Satisfies mathematics general education requirements
- \*Capstone Course

### Mechanical Engineering Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	42.5
Comprehensive Mechanical Engineering Requirements.....	70
Required Cognates.....	27.5
<b>Total (minimum, not including proficiency) .....</b>	<b>140</b>

### Suggested Four-Year Curriculum for a Major in Mechanical Engineering

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1050 Chemistry for Engineers.....	3.5
EGCP-1010 Digital Logic Design.....	3
EGGN-1110 The Engineering Profession .....	1
EGME-1810 Engineering Graphics.....	1
ENG-1400 Composition .....	3
MATH-1710 Calculus I .....	5
MATH-1720 Calculus II .....	5
PEF-1990 Physical Activity and the Christian Life .....	1
PHYS-2110 General Physics I .....	4
Physical Education Elective .....	1
<b>Total.....</b>	<b>33.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
COM-1100 Fundamentals of Speech.....	3
EGEE-2050 Circuits and Instrumentation.....	4
EGME-2050 Computational Methods .....	4
EGME-2530 Statics and Mechanics of Materials.....	5
EGME-2630 Dynamics .....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations.....	3
PHYS-2120 General Physics II.....	4
<b>Total.....</b>	<b>35</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
EGGN-3110 Professional Ethics.....	3
EGME-2410 Properties of Engineering Materials .....	4
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
HUM-1400 Introduction to Humanities.....	3
History Elective .....	3
<b>Total.....</b>	<b>36</b>

#### Fourth year:

BEGE-3760 Christian Worldview Integration.....	2
EGEE-3530 Electrical Machines.....	3
EGGN-4010 Senior Seminar .....	0
EGME-2310 Manufacturing & Finance .....	3
EGME-4660 Automatic Controls .....	3
EGME-4810 Mechanical Engineering Senior Design I .....	3
EGME-4820 Mechanical Engineering Senior Design II .....	3
GSS-1100 Politics and American Culture .....	3
Biology Elective.....	3.5
Engineering Elective .....	6
Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>35.5</b>



## 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.

Course requirements for the **biomedical engineering minor** involve 13.5-14 semester hours including:

BIO-1000 Principles of Biology.....	3.5
(or BIO-1110 Introduction to Biology.....)	4)
BIO-2010 Human Anatomy and Physiology .....	4
EGGN-3610 Biomedical Engineering Systems .....	3
GBIO-2720 Bioethics and the Human Experience .....	3
<i>Chose one elective from the following.....</i>	<i>3</i>
EGEE-4610 Medical Imaging.....	3
EGME 4560 Biomechanics and Biomaterials .....	3

### 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:

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 .....	3
MATH-1710, 1720 Calculus I, II .....	10
<i>Electives chosen from the following .....</i>	<i>3</i>
EEGE-3370 Probability and Random Processes.....	3
MATH-3110 Probability and Statistics I.....	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** includes:

EGGN-3910 Co-Op I .....	0
(or EGGN-3911 Co-Op IA.....)	0)
(and EGGN- 3912 Co-Op IB.....)	0)
EGGN-3920 Co-Op II .....	0
(or EGGN-3921 Co-Op IIA.....)	0)
(and EGGN- 3922 Co-Op IIB.....)	0)
EGGN-3930 Co-Op III .....	0
(or EGGN-3931 Co-Op IIIA.....)	0)
(and EGGN- 3932 Co-Op IIIB.....)	0)

### 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 University's honors program; the details are listed in the Interdisciplinary Studies section of the catalog. 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 above 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.

Course requirements for the **engineering honors program** include:

HON-1010 and 1020 Making of the Modern Mind (substitutes for HUM-1400 and HIST elective) .....	10
EGXX-4XXX Additional Engineering Elective.....	3

Honors version of the following courses:

*Requirements for computer engineering majors include:*

EGCP-3210 Computer Architecture .....	3
EGCP-3010 Advanced Digital Logic Design.....	3
EGEE-3210 Electronics I.....	3

*Requirements for electrical engineering majors include:*

EGEE-3210 Electronics I.....	3
EGEE-3330 Communications Theory .....	4
EGEE-4410 Feedback Controls .....	4

*Requirements for mechanical engineering majors include:*

EGME-3110 Thermodynamics .....	5
EGME-3850 Mechanical Design .....	3
EGME-4660 Automatic Controls.....	3

Students who earn a "B" or above in HON-1010 and 1020, earn a "B" or above in all engineering honors courses, and graduate with a cumulative GPA of 3.5 or higher will earn the "engineering honors graduate" designation.



## Course Descriptions

### Computer Science Courses

#### **CS-1210 C++ Programming**—Fa,Sp **2 hours**

Introduction to computer programming, software engineering principles, structured program design and implementation, and object-oriented design using the C++ programming language; students will become familiar with compiling programs in the Unix operating system. One lecture hour and two one-hour laboratories per week. (Fee: \$50)

#### **CS-1220 Object-Oriented Design Using C++**—Fa,Sp **3 hours**

Continuation of CS-1210 C++ programming to include pointers, the object paradigm, and abstract data types; advanced topics include exception handling, event-driven programming, and Graphical User Interface (GUI); principles of object-oriented design are applied to programming tasks in both the Unix and Windows environments. (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. (Fee: \$50)

#### **CS-3210 Programming Language Survey**—Sp **3 hour**

Systematic study of the principles, concepts, and mechanisms of computer programming languages: their syntax, semantics, and pragmatics; the processing and interpretations of computer programs; programming paradigms; and language design. Illustrative examples will be selected from a variety of programming language paradigms. *Prerequisite:* CS-2210 *Data Structures Using Java*. (Fee: \$50)

#### **CS-3310 Operating Systems**—Fa **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, security, and object-oriented design. Course content is developed through lectures, student research of the relevant literature, presentations, and programming projects using both C++ and Java. *Prerequisite:* CS-2210 *Data Structures Using Java*. (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-2510 *Discrete Math for Computer Science* (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) (even years)

#### **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*; MATH-2510 *Discrete Mathematics 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-4220 Web Applications**—Sp **3 hours**

Introduction to the design and implementation of Web-based applications using tools such as JavaScript, PHP, JSP, and Java servlets; applications will be developed using both the IIS and Apache servers. Multiple design projects required. *Prerequisite:* CS-2210 *Data Structures Using Java*. (Fee: \$50)

#### **CS-4320 Network Security**—Fa **3 hours**

Introduction to network security, including policy, malicious code, intrusion detection, prevention, response, cryptographic protocols for privacy and integrity, tradeoffs between risk of misuse, cost of prevention, and societal issues. *Prerequisite:* CS-3310 *Operating Systems*. (Fee: \$50)

#### **CS-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. *Prerequisites:* CS-3410 *Algorithms*. (Fee: \$50) (even years)

#### **CS-4710 Computer Graphics**—Fa **3 hours**

Introduction to two- and three-dimensional computer graphics; topics include analytic geometry of computer graphics (vectors, planes, clipping, visibility testing) and techniques for enhancing graphical realism such as lighting and shading, texture mapping, bump mapping, and reflection. *Prerequisite:* CS-3410 *Algorithms*, MATH-2510 *Discrete Math for Computer Science*. (odd years)(Fee: \$50)



**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, quality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document, a detailed design, and begin to implement their project that will be completed in CS-4820. *Prerequisite:* 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-4880 Topics in Computer Science–Fa,Sp 1-3 hours**

Selected topics in computer science that will complement or extend existing courses or expose students to topics not taught in other courses such as distributed computing, artificial intelligence, robotics, advanced algorithms, and numerical methods; may be proposed by a computer science faculty or student. *Prerequisite:* faculty advisor and instructor's permission.

**CS-4900 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:* major in computer science; permission of the research instructor.

### General Engineering Courses

**EGGN-1110 The Engineering Profession–Fa 1 hour**

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-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-3610 Biomedical Engineering Systems–Fa 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-1000 Principles of Biology

**EGGN-4010 Senior Seminar–Fa 0 hours**

Required weekly meeting of senior engineering majors to discuss the transition into the professional work environment. *Prerequisite:* senior status in engineering or computer science. (Fee: \$35)

### Cooperative Education Program Courses

**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 hours**

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 hours**

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.



# Engineering and Computer Science

School of Engineering, Nursing, and Science

## Engineering Competition Courses

### EGGN-1960 Competition Project–Sp 0 hours

Engineering freshmen on a department 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 hours

Engineering sophomores on a department 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-3960 Competition Project–Sp 0 hours

Engineering juniors on a department 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-4960 Competition Project–Sp 0 hours

Engineering seniors on a department 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.

## Computer Engineering Courses

### EGCP-1010 Digital Logic Design–Fa,Sp 3 hours

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-2110 Microprocessors–Fa 3 hours

Introduction to the fundamentals of microprocessors, including assembly language programming, memory hierarchies, peripheral device interfacing, interrupts, and microcomputer design. Two lecture hours and one two-hour laboratory per week; design project required. *Prerequisite:* EGCP-1010 Digital Logic Design. (Fee: \$100)

### EGCP-3010 Advanced Digital Logic Design–Sp 3 hours

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 3 hours

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 write an assembler for their processor. *Prerequisites:* EGCP-2110 Microprocessors; CS-1210 C++ Programming.

### EGCP-3510 Software Engineering–Fa 3 hours

Discussion of the engineering process as it applies to software development, life-cycle analysis and modeling, software metrics and management tools, project cost and size estimation, system requirement analysis, software design paradigms, and software testing and verification. *Prerequisites:* CS-3410 Algorithms; CS-3310 Operating Systems.

### 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-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-3010 Advanced Digital Logic Design; EGCP-3210 Computer Architecture. (Fee: \$100)



## 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

1-3 hours

### 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 Courses

### 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-3110 Linear Systems–Fa

3 hours

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 how to implement 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. (odd years)

### EGEE-3210 Electronics I–Fa

3 hours

Introduction to the analysis of semiconductor electronic device theory and application, diodes, bipolar-junction transistors (BJTs), field-effect transistors (FETs), and the non-ideal characteristics of operational amplifiers. Two lecture hours and one two-hour lab or recitation period 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–Fa

3 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

4 hours

Introduction to analog and digital communications theory. Probability and random processes are developed 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. May be used to satisfy the mathematics elective requirement for electrical engineers. *Prerequisite:* EGEE-3110 Linear Systems.

# Engineering and Computer Science

School of Engineering, Nursing, and Science

## EGEE-3510 Power Electronics—Sp 3 hours

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) (Fee: \$50)

## EGEE-3530 Electrical Machines—Fa 3 hours

Introduction to the fundamentals of power circuits and the principles of analysis and characteristics of transformers and AC and DC rotating machines. 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 2 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design, application of Z-transforms and Fourier Transforms, spectral analysis, realization and frequency response of discrete-time systems, and properties and design of FIR and IIR filters with infinite and finite word-length processors. Filter designs are implemented in Matlab. Design project required.

*Prerequisites:* EGEE-3110 Linear Systems; CS-1210 C++ Programming.

## EGEE-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 Electronics I.

## 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, Bode 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 sampled-data 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. (Fee: \$50)

## 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. *Prerequisite:* 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

4 hours

### Electrical Engineering Senior Design I–Fa

Design and development of electronic products to meet specific requirements using the top-down design method. Introduction to serial communication design, design for reliability, product cost and safety, environmental issues, project management, electronic design tools, prototype methods, noise analysis in data conversion, and circuit-board layout. Student teams prepare a project proposal, design and prototype electronic subsystems using analog and digital integrated circuits and microcontrollers, use computerized design tools, and conduct design reviews. Three lecture hours and one two-hour lab per week. *Prerequisites:* EGEE-3220 Electronics II; EGCP-2110 Microprocessors; EGEE-3110 Linear Systems; senior status in electrical engineering. (Fee: \$100)

## EGEE-4820

4 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.

## Mechanical Engineering Courses

### 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-2310 Manufacturing and Finance–Fa

3 hours

Introduction to the fundamentals of manufacturing and contemporary materials processing, molding, casting, forming, machining, inspection techniques, and quality assurance. Applications to the time value of money, break-even and payback analysis, and economic analysis of engineering alternatives. *Prerequisite:* EGME-2410 Properties of Engineering Materials.

### 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-2510 Statics–Fa

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; PHYS-2110 General Physics I; MATH-1710 Calculus I. (Fee: \$25)

## EGME-2630 Dynamics–Sp

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-of-freedom 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

2 hours

### 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 two-hour laboratories per week. *Prerequisites:* EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation. *Corequisites:* EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (Fee: \$100)



# Engineering and Computer Science

School of Engineering, Nursing, and Science

## 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

2 hours

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

3 hours

Introduction to fluid properties, fluid statics, and the concepts, definitions, and basic equations for subsonic fluid dynamics; Navier-Stokes equation, viscous and inviscid fluid flows, potential flow analysis, boundary layers, laminar and turbulent flows, analytical and computational solutions, vector fields, and finite-integral-control-volume method. *Prerequisites:* MATH-2710 Calculus III; MATH-2740 Differential Equations.

## EGME-3430 Principles of Physical Metallurgy—Sp

3 hours

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.

## EGME-3610

3 hours

### Kinematics and Design of Machines—Sp

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.*
- EGME-4160** **2 hours**  
**Radiation and Solar Energy–Fa**  
 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-4250** **2 hours**  
**Propulsion–Fa**  
 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.*
- EGME-4270** **2 hours**  
**Compressible Fluid Flow–Sp**  
 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** **3 hours**  
**Advanced Mechanics of Materials–Fa**  
 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.*
- EGME-4560** **3 hours**  
**Biomechanics and Biomaterials–Sp**  
 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** **3 hours**  
**Dynamics of Machines–Fa**  
 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** **3 hours**  
**Principles of Automatic Controls–Fa**  
 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** **3 hours**  
**Vibrations–Sp**  
 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** **1 hour**  
**Vibrations Lab–Sp**  
 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.*

## Mission Statement

The Cedarville University Department of Exercise and Sport Science seeks to:

1. Equip students for careers in sport-and exercise-related professions.
2. Enable students to view knowledge in light of scriptural truth.
3. Help students apply and model knowledge to the vocation and world in which they work and live.
4. Encourage growth in Christian character.

## Personal Requirements

Students planning to pursue a major within the department of exercise and sport science are best prepared in high school by taking a college preparatory curriculum. Students planning to pursue a multi-age physical education or sport and exercise studies major should take as many physical education courses as possible. Those considering majors in exercise science should take biology, chemistry, physics, and mathematics courses at least through algebra II. Business courses such as accounting and economics are good preparation for students considering a major in sport management.

## Department Requirements

Once students declare a major within the department of exercise and sport science, they are expected to maintain a high level of personal physical fitness. A semi-annual cardiovascular fitness assessment is used to evaluate the status of the student's fitness.

Multi-age physical education and sport and exercise studies 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 pages 82 and 83 for the department of education admission and retention requirements for multi-age physical education and multi-age health education.

## Programs of Study

The department of exercise and sport science offers the following programs of study:

### Bachelor of Arts (B.A.) with majors in:

- Exercise Science
- Physical Education – Multi-Age (certification for teaching pre-K to 12)
- Sport and Exercise Studies
- Sport Management

### Bachelor of Science (B.S.) with a major in:

- Exercise Science

### Minors

- Coaching
- Health Promotion
- Health Education – Multi-Age (certification for teaching pre-K to 12)
- Sport Ministry

## Co-Curricular Opportunities

The department of exercise and sport science has several opportunities for students to increase their professional skills and awareness by being involved in the following Cedarville University approved organizations:

- Exercise science majors – Health and Fitness Association
- Multi-age physical education and sport and exercise studies majors – Phi Epsilon Omega (Physical Education Organization)
- Sport management majors – Sport Management Organization

## Career Opportunities

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

- Administrator of youth activities and youth organizations
- Athletic director
- Coach
- Community health opportunities
- Exercise physiologist
- Exercise specialist
- Fitness and recreation management
- Health teacher (pre-K to 12th grade)
- Personal trainer
- Professional athletic team management
- Physical education teacher (pre-K to 12th grade)
- Sport marketing and promotion
- Sport ministry organization management



Dr. Alan Geist teaches a sports management class.

### Faculty

**John McGillivray**, *Chairman*: Associate Professor of Exercise and Sport Science. Coach, women's soccer; 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.

**Benson Belleman**, Assistant Professor of Exercise and Sport Science. Coach, men's soccer. *Education*: B.A., Cedarville University, 1979; M.A., University of Akron, 1990. At Cedarville since 2001.

**Jeffrey Bolender**, Assistant Professor of Exercise and Sport Science. Coach, men's and women's track and field. *Education*: B.A., Cedarville University, 1991; M.S., Baylor University, 1996. At Cedarville since 2001.

**Teresa Clark**, Associate Professor of Exercise and Sport Science. *Education*: B.A., Cedarville University, 1975; M.S., Indiana University, 1986. At Cedarville since 1996.

**April Crommett**, Assistant Professor of Exercise and Sport Science. *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.

**Kathleen Freese**, Associate Professor of Exercise and Sport Science. *Education*: B.S., Bowling Green State University, 1971; M.Ed., Bowling Green State University, 1981. At Cedarville since 1991.

**Alan Geist**, Assistant Professor of Sport Management. *Education*: B.A., Cedarville University, 1983; M.S., United States Sports Academy, 1989; Ph.D., The Ohio State University, 2001. At Cedarville since 2005.

**Pamela Diehl Johnson**, *Dean*: School of Health and Human Performance. Senior Professor of Exercise and Sport Science. *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.

**Elvin King**, Associate Professor of Exercise and Sport Science. Coach, women's cross country; founder, NCCAA National Track Meet; NCCAA Hall of Fame, 1993. *Education*: B.S., Kent State University, 1964; M.Ed., Bowling Green State University, 1967. At Cedarville since 1969.

**Kirk Martin**, Assistant Professor of Exercise and Sport Science. Coach, women's basketball. *Education*: B.A., Cedarville University, 1976; M.S., University of Dayton, 1981. At Cedarville since 2001.

**Paul Orchard**, Assistant Professor of Exercise and Sport Science. Coach, men's cross country; Assistant Coach, men's and women's track and field. *Education*: B.S., Taylor University, 1983; M.A., Miami University, 1986. At Cedarville since 1993.

**Elizabeth Shearer**, Instructor of Exercise and Sport Science. *Education*: B.A., Cedarville University, 1980. At Cedarville since 2002.

**W. Ray Slagle**, Assistant Professor of Exercise and Sport Science. Coach, men's basketball. *Education*: B.S., Bob Jones University, 1971; M.S., Eastern Michigan University, 1979. At Cedarville since 2000.

**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.



## Exercise Science - Bachelor of Arts

The Bachelor of Arts 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 64-67 semester hours including:

ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-1550 Athletic Training Essentials .....	2
ESS-2380 Motor Learning and Development.....	3
ESS-3800 Sport Psychology .....	2
ESS-3890 Human Anatomy and Physiology for the Physical Educator .....	5
ESS-3900 Physiology of Exercise .....	3
ESS-3920 Biomechanics.....	2
ESS-3940 Structural Kinesiology .....	3
ESS-4900 Physical Education Senior Seminar .....	1
EXSC-2000 Worksite Observation .....	0
EXSC-3010 Campus Exercise Science Practicum.....	1
EXSC-3020 Community Exercise Science Practicum.....	1
EXSC-3180 Legal Issues in the Sport Industry .....	3
EXSC-3860 Basic Exercise Testing.....	3
EXSC-3870 Basic Exercise Prescription .....	3
EXSC-4600 Research in Exercise Science.....	3
EXSC-4810 Organization and Administration of Exercise Science .....	3
EXSC-4880 Exercise Testing and Prescription for Special Populations .....	3
*EXSC-4990 Internship in Exercise Science .....	9-12
GMTH-1020 College Algebra .....	3
MAHE-1000 Introduction to the Health Profession.....	1
MAHE-3030 Nutrition for Health and Weight Control .....	2
MAHE-3100 Drug Education .....	3
PEF-1990 Physical Activity and the Christian Life.....	1
*Capstone Course	

Required Cognate .....	3.5
GSCI-1020 Principles of Physical Science.....	3.5

### Exercise Science Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	43-51
Exercise Science B.A. Major Requirements.....	64-67
Electives .....	10-21
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Exercise Science - B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
ESS-1350 Foundations of Exercise & Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-1550 Athletic Training Essentials.....	2
GMTH-1020 College Algebra.....	3
GSCI-1020 Principles of Physical Science .....	3.5
MAHE-1000 Introduction to the Health Profession .....	1
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>31</b>

#### Summer:

EXSC-2000 Worksite Observation .....	0
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#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
ESS-2380 Motor Learning & Development.....	3
ESS-3890 Human Anatomy & Physiology for the Physical Educator .....	5
ESS-3900 Physiology of Exercise .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives .....	4
<b>Total.....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
ESS-3800 Sport Psychology.....	2
ESS-3920 Biomechanics .....	2
ESS-3940 Structural Kinesiology.....	3
EXSC-4600 Research in Exercise Science .....	3
EXSC-3010 Campus Exercise Science Practicum .....	1
EXSC-3020 Community Exercise Science Practicum .....	1
EXSC-3180 Legal Issues in the Sport Industry .....	3
EXSC-3860 Basic Exercise Testing .....	3
EXSC-3870 Basic Exercise Prescription .....	3
MAHE-3030 Nutrition for Health and Weight Control.....	2
MAHE-3100 Drug Education.....	3
History Elective .....	3
Elective .....	2
<b>Total.....</b>	<b>36</b>

#### Fourth year:

ESS-4900 Physical Education Senior Seminar (Fall Semester).....	1
EXSC-4810 Organization and Administration of Exercise Science .....	3
EXSC-4880 Exercise Testing & Prescription for Special Populations .....	3
EXSC-4990 Internship in Exercise Science .....	9-12
Humanities Elective .....	3
Electives.....	6-9
<b>Total.....</b>	<b>28</b>

### 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 71.5-74.5 semester hours including:

BIO-1000 Principles of Biology	3.5
BIO-2010 Human Anatomy & Physiology	4
CHEM-1000 Principles of Chemistry	5
ESS-1350 Foundations of Exercise and Sport Science	2
ESS-1400 First Aid and Safety Education	2
ESS-1550 Athletic Training Essentials	2
ESS-2380 Motor Learning and Development	3
ESS-3800 Sport Psychology	2
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	2
ESS-3940 Structural Kinesiology	3
ESS-4900 Physical Education Senior Seminar	1
EXSC-2000 Worksite Observation	0
EXSC-3010 Campus Exercise Science Practicum	1
EXSC-3020 Community Exercise Science Practicum	1
EXSC-3180 Legal Issues in the Sport Industry	3
EXSC-3860 Basic Exercise Testing	3
EXSC-3870 Basic Exercise Prescription	3
EXSC-4600 Research in Exercise Science	3
EXSC-4810 Organization and Administration of Exercise Science	3
EXSC-4880 Exercise Testing and Prescription for Special Populations	3
*EXSC-4990 Internship in Exercise Science	9-12
GMTH-1020 College Algebra	3
MAHE-1000 Introduction to the Health Profession	1
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3100 Drug Education	3
PEF-1990 Physical Activity and the Christian Life	1

\*Capstone Course

#### Exercise Science Major Curriculum Summary

Proficiency Requirements	0-5
*General Education Requirements	41.5
Exercise Science B.S. Major Requirements	71.5-74.5
Electives	12-15
<b>Total (minimum, not including proficiency)</b>	<b>128</b>

\* Must include a minimum of 16 semester hours in Science and Mathematics

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-2010 Human Anatomy and Physiology	4
(or BIO-3460 Human Structure and Function	4)
GMTH 1030 Precalculus	4
(instead of GMTH 1020 College Algebra	3)
CHEM 1110 General Chemistry I	4
and CHEM 1120 General Chemistry II	4
(instead of CHEM 1010 Principles of Chemistry	5)
BIO 1110 Introduction to Biology	4
(instead of BIO 1000 Principles of Biology	3.5)
BIO 2020 Advanced Clinical Psychology	4
BIO 1120 General Zoology	4
PHYS 1010 College Physics I	5
and PHYS 1020 College Physics II	5
PYCH 1600 General Psychology	3

PYCH 2600 Human Development: Life Span	3
PYCH 2610 Statistics	3
PYCH 2640 Abnormal Psychology	3

A complete description of the general education requirements is found on page 18

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

##### First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
BIO-1000 Principles of Biology	3.5
COM-1100 Fundamentals of Speech	3
CHEM-1000 Principles of Chemistry	5
ENG-1400 Composition	3
ESS-1350 Foundations of Exercise & Sport Science	2
ESS-1400 First Aid and Safety Education	2
ESS-1550 Athletic Training Essentials	2
GSCI-1020 Principles of Physical Science	3.5
MAHE-1000 Introduction to the Health Profession	1
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
<b>Total</b>	<b>33</b>

##### Summer:

EXSC-2000 Worksite Observation	0
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##### Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BIO-2010 Human Anatomy & Physiology	4
ESS-2380 Motor Learning & Development	3
ESS-3900 Physiology of Exercise	3
GMTH-1020 College Algebra	3
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
Literature Elective	3
Social Science/Global Awareness Elective	3
<b>Total</b>	<b>31</b>

##### Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ESS-3800 Sport Psychology	2
ESS-3920 Biomechanics	2
ESS-3940 Structural Kinesiology	3
EXSC-4600 Research in Exercise Science	3
EXSC-3010 Campus Exercise Science Practicum	1
EXSC-3020 Community Exercise Science Practicum	1
EXSC-3180 Legal Issues in the Sport Industry	3
EXSC-3860 Basic Exercise Testing	3
EXSC-3870 Basic Exercise Prescription	3
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3100 Drug Education	3
Elective	2
<b>Total</b>	<b>32</b>

##### Fourth year:

ESS-4900 Physical Education Senior Seminar (Fall Semester)	1
EXSC-4810 Organization and Administration of Exercise Science	3
EXSC-4880 Exercise Testing & Prescription for Special Populations	3
EXSC-4990 Internship in Exercise Science	9-12
History Elective	3
Humanities Elective	3
*Electives	7-10
<b>Total</b>	<b>32</b>

\*May need to include science elective hours to fulfill 16 semester hours of science and mathematics to fulfill general education requirements for B.S. degree.

## Sport and Exercise Studies

The sport and exercise studies major prepares students for a career in entry-level positions in YMCAs, sport ministry organizations, social service agencies, recreation centers, college and university intramural or athletic departments, or other possibilities within the sport industry. This program can be used as preparation for graduate school in such areas as sport psychology, recreational therapy, occupational therapy, ergonomics, motor learning and development, etc. A minor selected with advisor approval is also part of the requirements for this major.

Course requirements involve 39-47 semester hours including:

<i>Sport and Exercise Studies Core Requirements</i> .....	39-47
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development.....	3
ESS-3890 Human Anatomy & Physiology for the Physical Educator .....	5
MAPE-1210 Team Sports .....	2
MAPE-2200 Individual and Dual Sports I .....	2
MAPE-2210 Individual and Dual Sports II .....	2
<i>Three Physical Education courses selected from</i> .....	3
PEAE-XXXX Activity Elective.....	1
PEAI-XXXX Individual Sport Elective.....	1
PEAL-XXXX Leisure Elective.....	1
<i>Three Physical Education courses selected from</i> .....	3
PEAR-XXXX Rhythmics Elective .....	1
PEAS-XXXX Tumbling, Apparatus or Swimming .....	1
PEAT-XXXX Team Sport Elective .....	1
<i>Swimming Requirements selected from</i> .....	1-2
PEAS-1700 Swimming I-Beginners:Coed.....	1
PEAS-1720 Swimming II-Intermediate:Coed.....	1
PEAS-1730 Swimming III-Advanced:Coed.....	1
PEAS-1740 Lifeguarding Today:Coed .....	2
PEAS-1750 Water Safety Instructor:Coed .....	2
PEF-1990 Physical Activity & the Christian Life .....	1
<i>3000- or 4000-level Sport and Exercise Studies Electives (Minimum 4 courses, excluding independent study or internship courses).....</i>	10-14
*SES-4990 Internship in Sport and Exercise Studies.....	3-6
(or SES-4995 Senior Research Project in Sport and Exercise Studies .....	3-6)
<i>Minor requirements (approval of advisor).....</i>	15

\*Capstone Course

### Sport and Exercise Studies Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	50-55
Sport and Exercise Studies Requirements .....	39-47
Electives .....	25-42
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Sport and Exercise Studies

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
ESS-1350 Foundations of Exercise and Sport Science.....	2
ESS-1400 First Aid and Safety Education .....	2
HUM-1400 Introduction to the Humanities .....	3
MAPE-1210 Team Sports .....	2
PEAE-XXXX or PEAI-XXXX or PEAL-XXXX Elective.....	1
PEAR-XXXX or PEAS-11XX or PEAT-XXXX Elective .....	1
PEF-1990 Physical Activity and the Christian Life .....	1
Minor Electives.....	2
Quantitative Elective .....	3
<b>Total.....</b>	<b>32.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
ESS-2380 Motor Learning and Development .....	3
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II.....	2
PEAE-XXXX or PEAI-XXXX or PEAL-XXXX Elective.....	1
PEAR-XXXX or PEAS-11XX or PEAT-XXXX Elective .....	1
PEAS-Swimming Elective .....	1-2
History Elective .....	3
Literature Elective .....	3
Minor Electives.....	3
Social Science/Global Awareness Elective.....	3
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>31.5-32.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
ESS-3890 Human Anatomy & Physiology for the Physical Educator .....	5
GSS-1100 Politics and American Culture .....	3
PEAE-XXXX or PEAI-XXXX or PEAL-XXXX Elective.....	1
PEAR-XXXX or PEAS-XXXX or PEAT-XXXX Elective .....	1
3000- or 4000- Level ESS courses .....	5-7
Minor Electives.....	5
Humanities Elective .....	3
Electives.....	1-3
<b>Total.....</b>	<b>32</b>

#### Fourth year:

SES-4990 Internship or SES-4995 Senior Research Project .....	3-6
3000- or 4000- Level ESS courses .....	5-7
Minor Electives.....	5
Electives.....	14-18
<b>Total.....</b>	<b>32</b>

Exercise and Sport Science

### Sport Management

The **sport management major** prepares graduates to pursue career opportunities across the wide spectrum of sport: from amateur to collegiate to professional to corporate sport settings; and from roles in management to marketing to journalism to law.

Course requirements involve 56 semester hours including:

<i>Sport Management Core</i> .....	40
ESS-2100 Leadership & Ethics in Sport .....	3
ESS-3800 Sport Psychology .....	2
PEF-1990 Physical Activity and the Christian Life.....	1
SMGT-1350 Introduction to Sport Management.....	3
SMGT-2810 Organization and Administration of Sports and Athletics .....	3
SMGT-2910 Campus Sport Management Practicum .....	1
SMGT-2920 Recreation Management Practicum.....	1
SMGT-3180 Legal Issues in the Sport Industry.....	3
SMGT-3200 Facility Design & Management .....	3
SMGT-3300 Event Planning & Production .....	3
SMGT-4100 Marketing & Promotions in the Sport Industry.....	4
SMGT-4910 Athletic Administration Practicum .....	1
*SMGT-4990 Internship in Sport Management .....	12
<i>Business Core</i> .....	16
ACCT-2110 Principles of Accounting I .....	3
BUS-2100 Business Communication .....	3
MGMT-3500 Principles of Organization and Management .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business.....	2
MRKT-3600 Principles of Marketing.....	3

\*Capstone Course

#### Sport Management Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	51-59
Sport Management Major Requirements.....	56
Electives .....	13-21
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



With a student-to-faculty ratio of 14:1, professors are able to interact with students individually to answer specific questions and to encourage personal growth.

#### Suggested Four-Year Curriculum for a Major in Sport Management

##### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
HUM-1400 Introduction to the Humanities .....	3
ENG-1400 Composition .....	3
MIS-1500 Information Technology for Business .....	2
MIS-1510 Software Tools for Business.....	2
PEF-1990 Physical Activity and the Christian Life .....	1
SMGT-1350 Introduction to Sport Management .....	3
Physical Education Activity Elective.....	1
Quantitative Elective .....	3
<b>Total.....</b>	<b>30.5</b>

##### Second year:

ACCT-2110 Principles of Accounting I .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BUS-2100 Business Communication .....	3
ESS-2100 Leadership & Ethics in Sport .....	3
SMGT-2810 Organization and Administration of Sports and Athletics.....	3
SMGT-2910 Campus Sport Management Practicum.....	1
SMGT-2920 Recreation Management Practicum .....	1
History Elective .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Electives.....	5
<b>Total .....</b>	<b>34.5</b>

##### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
ESS-3800 Sport Psychology.....	2
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 & Management .....	3
SMGT-3300 Event Planning & Production .....	3
Humanities Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives.....	3
<b>Total.....</b>	<b>33</b>

##### Fourth year:

SMGT-4100 Marketing & Promotions in the Sport Industry .....	4
SMGT-4910 Athletic Administration Practicum .....	1
SMGT-4990 Internship in Sport Management .....	12
Electives.....	13
<b>Total.....</b>	<b>30</b>

## Teacher Education Licensure Program – Physical Education – Multi-Age

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 department of education section of this catalog (page 82).

Course requirements involve 81 semester hours including:

<i>Physical Education</i> .....	40
ESS-1350 Foundations of Exercise and Sport Science .....	2
ESS-1400 First Aid and Safety Education .....	2
ESS-2380 Motor Learning and Development.....	3
ESS-3890 Human Anatomy & Physiology for the Physical Educator.....	5
ESS-3900 Physiology of Exercise.....	3
ESS-3920 Biomechanics.....	2
ESS-4900 Physical Education Senior Seminar .....	1
GMTH-1020 College Algebra .....	3
MAHE-3130 School Health Program.....	3
MAPE-1210 Team Sports.....	2
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II.....	2
MAPE-4500 Curriculum Development in Physical Education ..	3
PEAL-XXXX Outdoor Leisure Elective .....	1
PEAR-2100 Rhythmics.....	1
PEAS-1120 Tumbling .....	1
PEAS-1130/1140 Apparatus.....	1
PEAS-17XX Swimming Elective.....	1
PEF-1990 Physical Activity and the Christian Life.....	1
Exercise and Sport Science Elective.....	1
<i>Professional Education</i> .....	41
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4000 Reading in the Content Area: Multi-Age.....	3
EDUC-4500 Philosophy of Education.....	2
*EDUC-4900 Student Teaching and Seminar: Multi-Age .....	10
MAPE-3600 Physical Education in the Elementary School.....	5
MAPE-4950 Methods of Teaching Physical Education .....	3
MAPE-4960 Field Experience .....	4
MAPE-4970 Field Experience (Special Populations) .....	2

\*Capstone Course

### Physical Education Multi-Age Major Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	47-55
Physical Education Multi-Age Major Requirements.....	81
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition .....	3
ESS-1350 Foundations of Exercise and Sport Science.....	2
ESS-1400 First Aid and Safety Education .....	2
GMTH-1020 College Algebra.....	3
HUM-1400 Introduction to the Humanities .....	3
MAPE-1210 Team Sports .....	2
PEAS-1120 Tumbling.....	1
PEAS-1130/1140 Apparatus .....	1
PEAS-17XX Swimming Elective .....	1
PEF-1990 Physical Activity and the Christian Life .....	1
<b>Total.....</b>	<b>32.5</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology .....	3
ESS-2380 Motor Learning and Development.....	3
MAPE-2200 Individual and Dual Sports I.....	2
MAPE-2210 Individual and Dual Sports II.....	2
PEAR-2100 Rhythmics .....	1
Physical Science Elective .....	3.5
History Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>34.5</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
ESS-3890 Human Anatomy & Physiology for the Physical Educator ..	5
ESS-3900 Physiology of Exercise .....	3
ESS-3920 Biomechanics .....	2
GSS-1100 Politics and American Culture .....	3
MAHE-3130 School Health Program .....	3
MAPE-3600 Physical Education in Elementary School .....	5
PEAL-XXXX Outdoor Leisure Activity .....	1
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>27</b>

*Summer:*

EDUC-4000 Reading in the Content Area: Multi-Age .....	3
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*Fourth year:*

BEGE-3760 Christian Worldview Integration.....	2
EDUC-4500 Philosophy of Education .....	2
EDUC-4900 Student Teaching and Seminar: Multi-Age .....	10-12
ESS-4900 Physical Education Senior Seminar .....	1
MAPE-4500 Curriculum Development in Physical Education.....	3
MAPE-4950 Methods of Teaching Physical Education .....	3
MAPE-4960 Field Experience.....	4
MAPE-4970 Field Experience (Special Populations).....	2
Exercise and Sport Science Elective .....	1
Humanities Elective .....	3
<b>Total.....</b>	<b>34-36</b>

Exercise and Sport Science



### Minors

#### Coaching Minor

The **coaching minor** prepares students to work as coaches in organized athletic programs at any level. Although formal education is not currently required of coaches, this particular program combines theoretical, scientific, and practical components to provide students with the knowledge and the skills they will need to succeed in this competitive yet rewarding area of service. The course requirements of the coaching minor make it a suitable complement to any major field of study offered by the University.

Course requirements for a minor in coaching involve 18 semester hours including:

CCHG-3670 Fundamentals of Coaching.....	3
CCHG-3680 Scientific Basis of Coaching .....	2
Select one course from CCHG-3700 through CCHG-3760	
Coaching.....	2
CCHG-4950 Internship in Coaching.....	3
ESS-1400 First Aid and Safety Education.....	2
ESS-1550 Athletic Training Essentials .....	2
ESS-3800 Sport Psychology .....	2
ESS-3920 Biomechanics.....	2

#### Health Promotion Minor

The **health promotion minor** is a non-certificate area for those students not seeking K-12 teaching certification in health education. It is designed to prepare students for health promotion employment opportunities in educational, community, health agency, sport, and leisure settings. It complements the coursework in physical education, athletic training, business, exercise science, physical activity and sport studies, or psychology. Students may also qualify to take the Certified Health Education Specialist exam, depending on particular coursework chosen.

Course requirements for a minor in health promotion involve 21 semester hours including:

ESS-1400 First Aid and Safety Education.....	2
ESS-3890 Human Anatomy and Physiology for the Physical	
Educator.....	5
MAHE-1000 Introduction to the Health Profession.....	1
MAHE-1350 Foundations of Health Education.....	2
MAHE-2100 Personal Health Issues.....	3
MAHE-3030 Nutrition for Health and Weight Control .....	2
MAHE-3500 Community Health Concepts .....	2
PEF-1990 Physical Activity and the Christian Life.....	1
<i>One course selected from the following .....</i>	<i>3</i>
MAHE-4990 Health Promotion Internship .....	3
PYCH-1600 General Psychology .....	3
SOC-3710 Family and Society .....	3

#### Muti-age Health Education Minor

The **multi-age health education minor** prepares students to teach health in Christian or public schools in grades pre-K to 12. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the department of education section of this catalog (page 82). Because this program of study is not a major, students interested in health education must select an additional subject area as a major.

Course requirements involve 64 semester hours including:

<i>Health Education .....</i>	<i>28</i>
ESS-1400 First Aid and Safety Education.....	2
ESS-3890 Human Anatomy and Physiology for the	
Physical Educator.....	5
MAHE-1000 Introduction to the Health Profession.....	1
MAHE-1350 Foundations of Health Education.....	2
MAHE-2100 Personal Health Issues.....	3
MAHE-3030 Nutrition for Health and Weight Control .....	2
MAHE-3070 Current Issues in Health .....	1
MAHE-3100 Drug Education .....	3
MAHE-3130 School Health Program.....	3
MAHE-3500 Community Health Concepts .....	2
PEF-1990 Physical Activity and the Christian Life.....	1
PYCH-2600 Human Development: Lifespan.....	3
<i>Professional Education .....</i>	<i>36</i>
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4000 Reading in the Content Area: Multi-Age.....	3
EDUC-4500 Philosophy of Education.....	2
EDUC-4900 Student Teaching and Seminar: Multi-Age.....	10
MAHE-4400 Health Education In-Service .....	0
MAHE-4610 Teaching Health .....	5
MAHE-4960 Field Experience in Health.....	4

#### Sport Ministry Minor

The purpose of the **sport ministry minor** is to assist the student who is preparing for a variety of ministries through the medium of sport. This minor is a good complement to many majors including sport and exercise studies, sport management, world missions, and youth ministries.

Course requirements for a minor in sport ministry involve 20-22 semester hours including:

BEPT-2400 Personal Evangelism .....	3
BEPT-3410 Discipleship .....	3
CCHG-3670 Fundamentals of Coaching.....	3
ESS-1400 First Aid and Safety Education.....	2
ESSE-1350 Foundations of Sport Ministries .....	3
ESSE-2830 Recreational Leadership.....	2
<i>Two courses selected from the following.....</i>	<i>4-6</i>
ESSE-2100 Wilderness Ministry.....	3
ESSE-2810 Introduction to Camping.....	2
MAPE-1210 Team Sports.....	2
MAPE-2200 Individual & Dual Sports I.....	2
SMGT-3810 Organization & Admin of Sports & Athletics.....	3

(BEPH-2260 Religion & Culture recommended general education humanities/global awareness elective.)

## Course Descriptions

### General Education

**PEF-1990** 1 hour

#### Physical Activity and the Christian Life—Fa,Sp,Su

Study of the role of physical activity in the Christian life from a scriptural, physiological, and psycho-social perspective. Emphasis is placed upon developing and continuing active, healthy, Christian life practices. Letter-graded course.

### Activity Courses

**PEAF-1110 Personal Exercise Program: Men** 1 hour  
**and PEAF-1290 Personal Exercise Program: Women** 1 hour

The personal exercise program courses are individually developed to meet the unique activity needs of students with physical disabilities or conditions that preclude them from being safely or effectively involved in physical education activity courses. Departmental approval is required.

**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. These courses may be used by non-majors to satisfy the physical education component of the general education requirements and by majors to satisfy specific curricular requirements.

**PEAE-1240 Self Defense: Women—Fa,Sp** 1 hour

**PEAE-1300 Contemporary Aerobics: Women—Fa,Sp** 1 hour

**PEAE-1320 Aquaerobics: Women (Fee: \$60)—Sp** 1 hour

**PEAE-1400 Weight Training: Coed—Fa,Sp** 1 hour

**PEAE-1450 Intermediate Weight Training—Fa,Sp** 1 hour

**PEAI-1430 Badminton: Coed—Sp** 1 hour

**PEAI-1460 Bowling: Coed (Fee: \$15)—Fa,Sp** 1 hour

**PEAI-1540 Golf: Coed (Fee: \$15)—Fa** 1 hour

**PEAI-1550 Intermediate Golf: Coed (Fee: \$25)—Fa** 1 hour

**PEAI-1600 Racquetball: Coed (Fee: \$15)—Fa,Sp** 1 hour

**PEAI-1770 Tennis: Coed—Fa,Sp,Su** 1 hour

**PEAI-1780 Advanced Tennis: Coed** 1 hour

**PEAL-1420 Backpacking: Coed (Fee: \$30)—Fa,Sp** 1 hour

**PEAL-1510 Cycling: Coed—Fa** 1 hour

**PEAL-1610 Rock Climbing: Coed (Fee: \$25)—Fa,Sp** 1 hour

**PEAL-1620** 1 hour

**Intermediate Rock Climbing:Coed (Fee: \$125)—Sp**

**PEAR-2100 Rhythmics: Coed—Fa** 1 hour

**PEAS-1120 Tumbling: Coed—Sp** 1 hour

**PEAS-1130 Apparatus: Men—Sp** 1 hour

**PEAS-1140 Apparatus: Women—Sp** 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

**PEAT-1830 Advanced Volleyball: Coed** 1 hour

**PEAS-1700 Swimming I-Beginners: Coed—Fa** 1 hour

Designed for nonswimmers or swimmers with minimal swimming background; introduces and develops three strokes: front crawl, back crawl, and elementary back. (Fee: \$35)

**PEAS-1720 Swimming II-Intermediate: Coed—Fa** 1 hour

Focuses on refining the front crawl, back crawl, elementary backstroke, side stroke, and breast stroke. Emphasis on increased endurance and conditioning level. *Prerequisites:* PEAS-1700 Swimming I; American Red Cross Level IV certificate. (Fee: \$35)

**PEAS-1730 Swimming III-Advanced: Coed—Sp** 1 hour

Designed for swimmers who have gained experience through lessons or competitive swimming. Course develops stroke proficiency for all strokes including the butterfly. Includes an introduction to training regimen for lifetime fitness. (Fee: \$35)

**PEAS-1740 Lifeguarding Today: Coed—Sp** 2 hours

Provides lifeguards and lifeguard candidates with skills and knowledge necessary to keep the patron of an aquatic facility safe in and around the water. Teaching of lifeguarding skills and knowledge needed to prevent and respond to aquatic emergencies, preparing candidates to recognize emergencies, respond quickly and effectively to emergencies, and prevent drownings and other incidents. *Prerequisite:* age 15 or older; swim 500 yards continuously using front crawl, breast stroke, and side stroke; surface dive and submerge to a minimum depth of seven feet, retrieve a 10 pound object and return with it to the surface; tread water for two minutes using legs only. (Fee: \$120)

**PEAS-1750 Water Safety Instructor: Coed—Sp** 2 hours

This course prepares, equips, and certifies individuals in American Red Cross swimming and water safety with the purpose of teaching water exploration, primary skills, stroke readiness, stroke refinement, skill proficiency, advanced skills, basic water safety, emergency water safety, and water safety instructor aide. (Fee: \$135) (even years)

### Coaching

**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-3680 Scientific Basis of Coaching—Fa** 2 hours

Practical study of physiological and kinesiological principles of training and their application to various sports. (odd years)

**CCHG-3700 through CCHG-3760 Coaching** 2 hours each

Organization, skills, techniques, and strategies of the following sports:

**CCHG-3700 Coaching Volleyball—Fa (even years)** 2 hours

**CCHG-3720 Coaching Basketball—Fa (odd years)** 2 hours

**CCHG-3730** 2 hours

**Coaching Track and Field and Cross Country—Sp (odd years)**

**CCHG-3740** 2 hours

**Coaching Softball and Baseball—Fa (even years)**

**CCHG-3760 Coaching Soccer—Sp (odd years)** 2 hours



**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.*

**CCHG-4950 Internship in Coaching—Fa,Sp 3 hours**

Field experience at the University or a nearby high school involving actual coaching experience for a minimum of 100 hours. *Departmental approval is required. Credit/no credit.*

**Education**

**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 early childhood 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-1350 2 hours**

**Foundations of Exercise and Sport Science—Sp**

Orientation to the history, philosophy, and scope of modern exercise and sport science from a theistic 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: \$30)

**ESS-1550 Athletic Training Essentials—Fa,Sp 2 hours**

Principles of prevention, recognition, management, and rehabilitation of athletic injuries are presented for the student anticipating professional employment as a supervisor of individuals engaged in recreation and sport activities. (Fee: \$35)

**ESS-2100 Leadership and Ethics in Sport—Fa 3 hours**

This course will include the study of principles of biblical leadership and the ethics involved, various laws and theories of leadership, theories of ethics, and how the development of leadership relates to individuals and the domain of sport.

**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,Sp 2 hours**

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. *Prerequisite: PSYCH-1600 General Psychology, junior status, or 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: BIO-1000 Principles of Biology.*

**ESS-3900 Physiology of Exercise—Sp 3 hours**

A study of the physiological processes of the body and how they are affected by and adapt to varying exercise conditions. *Prerequisite: BIO-2010 Human Anatomy and Physiology or ESS-3890 Human Anatomy and Physiology for the Physical Educator.*

**ESS-3920 Biomechanics—Fa 2 hours**

Application of the facts and principles of basic physics to body movement, sports performance, and teaching of physical education skills. *Prerequisite: GMTH-1020 College Algebra.*



**ESS-3940 Structural Kinesiology—Fa 3 hours**

Application of physical laws and analysis of human movement with special reference to anatomical principles underlying human movement. *Prerequisites: BIO-2010 Human Anatomy and Physiology or ESS-3890 Human Anatomy and Physiology for the Physical Educator.*

**ESS-4600 2 hours**

**Research in Athletic Training and Exercise Science—Sp**

Designed to develop an appreciation for the importance of and need for quality research in athletic training and/or exercise science. Orientation to methods and procedures utilized, emphasizing basic principles of conducting research, and for interpreting and critically reviewing articles representative of the athletic training/exercise science domains. Capstone course for Athletic Training major.

**ESS-4850 1-3 hours**

**Independent Study in Exercise & Sport Science—Fa,Sp**

Independent study in the area of exercise and sport science. *Departmental approval is required.*

**ESS-4900 1 hour each**

**Physical Education Senior Seminar—Fa,Sp**

A study of current issues in physical education and the implications of physical education and sport on society. Students will also study sport law and methods of research and evaluation.

**Exercise and Sport Science Electives**

**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.

**ESSE-2100 Wilderness Ministry—Su 3 hours**

Preparation for and participation in a backpacking trip provides the backdrop for addressing the purpose, benefits, and effective use of the wilderness backpacking experience for maximum spiritual impact on both individuals and groups. Credit/no credit. *If prior arrangements are made for fulfilling the activity requirement, this course can fulfill the Physical Education General Education activity course requirement. (Fee: \$340)*

# Exercise and Sport Science

School of Health and Human Performance

## ESSE-2300 through ESSE-2320 Sports Officiating 2 hours

Lectures, reading, class discussions, and field experiences in officiating. Ohio High School Athletic Association certification may be earned in selected sports.

### ESSE-2300 Basketball Officiating 2 hours

### ESSE-2310 Volleyball Officiating 2 hours

### ESSE-2320 Track and Field Officiating 2 hours

## ESSE-2810 Introduction to Camping–Sp 2 hours

The development and scope of camping including philosophies of centralized and decentralized camping, standards, administration, and basic campcraft skills. Special arrangement only. (Fee: \$40) (even years)

## ESSE-2830 Recreational Leadership–Sp 2 hours

Survey of the recreational aspects of games and activities from a noncompetitive perspective. Small and large group activities are planned, such as new games and challenge initiatives to enhance individual and group development and recognize group process and dynamics. Practical work in planning, implementing, and evaluating recreational programs for all ages in schools, youth group outings, Bible clubs, and camps are provided. (odd years)

## 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-2000 Worksite Observation–Fa,Sp,Su 0 hours

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. *Departmental approval and a follow-up report are required. Credit/no credit.*

## EXSC-3000 Exercise Science Practicum–Fa,Sp 1 hour

This practicum is a minimum of 30 contact hours assisting or instructing in group aerobics, muscle strength conditioning instruction and workout supervision, muscle toning instruction and workout supervision, or personal training. *Departmental approval is required. Credit/no credit.*

## EXSC-3010 Campus Exercise Science Practicum–Fa,Sp 1 hour

This practicum is a minimum of 30 contact hours assisting or instructing on-campus experiences such as group aerobics, strength conditioning, work-out supervision and personal training. *Departmental approval is required. Credit/No Credit.*

## EXSC-3020 1 hour

## Community Exercise Science Practicum–Fa,Sp

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.*

## EXSC-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*

## EXSC-3860 Basic Exercise Testing–Fa 3 hours

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 health fitness instructor certification. *Prerequisite: BIO-2010 Human Anatomy and Physiology or ESS-3890 Human Anatomy and Physiology for the Physical Educator; GMTH-1020 College Algebra. (Fee:\$15)*

## EXSC-3870 Basic Exercise Prescription–Sp 3 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 health fitness instructor certification. *Prerequisite: EXSC-3860 Basic Exercise Testing. (Fee:\$15)*



**EXSC-4600 Research in Exercise Science—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-4810 3 hours**

**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: ESS-1350 Foundations of Exercise and Sport Science; EXSC-2000 Worksite Observation; EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription.*

**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. *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: ESS-1350 Foundations of Exercise and Sport Science; EXSC-2000 Worksite Observation; EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription.* (Fee: \$15)

**EXSC-4990 Internship in Exercise Science—Fa,Sp 6-12 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. *Senior status and departmental approval is required. Credit/no credit (Fee \$35)*

**Multi-Age Health Education**

**MAHE-1000 1 hour**

**Introduction to the Health Profession—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.

**MAHE-1350 Foundations of Health Education—Sp 2 hours**

Orientation to the history, philosophy, and scope of modern health education from a theistic perspective.

**MAHE-2100 Personal Health Issues—Fa 3 hours**

This course will explore various health topics, including but not limited to emotional and mental well being, gerontological health issues, and death and dying. Course content may be revised to reflect changing health needs and priorities. (Even years)

**MAHE-3030 2 hours**

**Nutrition for Health & Weight Control—Fa**

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—Sp 1 hour**

Designed to explore, from a Christian perspective, health-related 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-3100 Drug Education—Sp 3 hours**

Students will investigate the physical, social, emotional, intellectual, and spiritual factors influencing consumer health behavior with specific application to use/misuse of dietary supplements and herbal preparations, prescription drugs, over-the-counter drugs, alcohol, stimulants, opiates, hallucinogens, and steroids.

**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-3500 Community Health Concepts—Fa 2 hours**

Analysis of current community health problems and how solutions can be achieved in and through existing community health programs.

**MAHE-4400 Health Education In-Service—Fa,Sp 0 hours**

Students are required to organize and conduct a health fair or make a presentation on a health-related issue to other health professionals, parents, faculty, or school personnel at the site of their student teaching experience or on campus to faculty, staff, and students. Students will prepare the information and materials for the health fair and/or presentation as part of the course Community Health Concepts. *Departmental approval is required. Prerequisite: MAHE-3500 Community Health Concepts. Credit/no credit.*

**MAHE-4610 Teaching Health—Fa 5 hours**

This course provides methods of instruction with emphasis on the teacher’s role in comprehensive school health education, including an introduction to the health status of youth, at-risk students, objectives for A Healthy People 2010, components of comprehensive school health education, the role of the teacher in school health services, and special health concerns of today’s preschool children through post-secondary youth, as well as curriculum development, behavioral objectives, life skills, scope and sequence of learning, teaching strategies, philosophy of wellness, and responsible decision making. *Prerequisite: admission to the teacher education program. (Odd years)*

# Exercise and Sport Science

School of Health and Human Performance

## 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.*

## MAHE-4960 Field Experience in Health Education—Fa,Sp 4 hours

An eight-week field experience, including the teaching of health. *Prerequisite: admission to the teacher education program. Credit/no credit. (Fee: \$35)*

## MAHE-4990 Internship in Health Promotion—Fa,Sp 3 hours

This is an actual work experience in a health promotion setting for a minimum of 10 hours per week for a minimum of ten weeks. *Departmental approval is required. Credit/no credit.*

### Multi-Age Physical Education

## MAPE-1210 Team Sports—Fa 2 hours

Theory and practice in soccer, basketball, softball, baseball, volleyball, and novelty sports with attention given to various teaching methods, skills, and rules.

## MAPE-2200 Individual and Dual Sports I—Fa 2 hours

Theory and practice in tennis, golf, archery, and bowling with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$20)

## MAPE-2210 Individual and Dual Sports II—Sp 2 hours

Theory and practice in badminton, racquetball, table tennis, and track and field with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$15)

## 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, and types of evaluations, as well as modifying activities for the purpose of inclusion for the physically challenged.

## MAPE-4500

3 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.

## 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. *Departmental approval is required.*

## MAPE-4950

3 hours

### Methods of Teaching 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

4 hours

An eight-week field experience taken in conjunction with MAPE-4950 Methods of Teaching Physical Education. *Prerequisite: admission to the teacher education program. Credit/no credit. (Fee: \$35)*

## MAPE-4970

2 hours

### Field Experience in Physical Education—Special Populations—Fa,Sp

A five-week adapted physical education teaching field experience taken in conjunction with EDSE-4900 Student Teaching and Seminar: Adolescent/Young Adult that seeks to provide the opportunity for application of adapted physical education content and theory studied in MAPE-3600 Physical Education in the Elementary School and MAPE-4950 Methods of Teaching Physical Education. *Prerequisites: admission to the teacher education program; MAPE-4950 Methods of Teaching Physical Education; MAPE-4960 Field Experience. (Fee: \$35)*

### Sport and Exercise Studies

## SES-4850

1-3 hours

### Independent Study in Sport and Exercise Studies—Fa,Sp

Independent Study in the area of sport and exercise studies by students pursuing the sport and exercise studies major. *Departmental approval is required.*

## SES-4990

3-6 hours

### Internship in Sport and Exercise Studies—Fa,Sp

This is a work experience in a sport and exercise studies setting for a minimum of 100 work hours for 3 credit hours and up to 200 work hours for 6 credit hours with a minimum of 20 work hours per week. Capstone course for sport and exercise studies major. Senior status and departmental approval are required. *Credit/no credit (Fee \$35)*

## SES-4995

3-6 hours

### Senior Research Project in Sport and Exercise Studies—Fa,Sp

The senior research project is recommended for those students planning to go to graduate school or those interested in doing a significant research project. The proposal for the Senior Project will be submitted not later than the mid-term of the semester prior to the term of attendance in this course and will be reviewed and challenged or approved by a committee consisting of the student's advisor, project coordinator, the Department Chair, and the School Dean. The results of the project will be presented formally to student peers and department faculty. Capstone course for sport and exercise studies major. *Prerequisites: ESS-4600 Research in Athletic Training and Exercise Science or a comparable research course in their minor; senior status and departmental approval is required. Credit/no credit (Fee \$35)*



### Sport Management

#### **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—Sp 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—Fa 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-2810 3 hours**

#### **Organization and Administration of Sports and Athletics—Sp**

Study of current issues, management techniques, and programming concepts as utilized in the administration of athletics, intramural, and recreational sports. *Corequisite: SMGT-1350 Introduction to Sport Management*

#### **SMGT-2910 1 hour**

#### **Campus Sport Management Practicum—Fa,Sp**

This practicum provides the sport management major the opportunity to assist faculty members or staff on the Cedarville University campus with his/her sport management responsibilities for a required minimum of 30 hours total. *Prerequisite: Sophomore status or permission of the instructor.*

#### **SMGT-2920 1 hour**

#### **Recreation Management Practicum—Fa,Sp**

This practicum provides the sport management major the opportunity to assist a recreation management employee/volunteer with his/her responsibilities for a required minimum of 30 hours total. *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.*

#### **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.

#### **SMGT-4100 4 hours**

#### **Marketing and Promotions in the Sport Industry—Fa**

This course applies the principles of promotion and marketing to the sport and fitness industry, including the area of professional sports, corporate fitness, college/high school athletics, clubs, and resorts. *Prerequisite: Senior status or permission of the instructor.*

#### **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 his/her responsibilities for a required minimum of 30 hours total. *Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production.*

#### **SMGT-4990 12 hours**

#### **Internship in Sport Management—Fa,Sp**

This is an actual work experience in a sport management setting for a minimum of 40 hours per week for a minimum of twelve weeks. Capstone course for sport management major. *Departmental approval is required. Credit/no credit. (Fee: \$35)*



Coach Belleman takes a class to a baseball game at Fifth/Third Field.

## 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
- International Studies, with the following concentrations:
  - Global Economics and International Business
  - Missiology
  - Social Science
- Reserve Officer Training Corps (ROTC)
  - Air Force
  - Army

## Co-Curricular Opportunities

**Tau Delta Kappa** provides an opportunity for fellowship, ministry, exchange of ideas, and support of students involved in the honors program. TDK students also tutor school children in the Cedarville area.

## Career Opportunities

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

- Diplomat
- Government worker
- International relations
- Military officer
- Missionary

## College Studies Course Descriptions

### COLL-1000 Transitions

0 hours

Designed to assist students in understanding and developing skills needed for college success. Includes placement and diagnostic testing, special advising, and tutoring when necessary. (Fee: \$450)

### COLL-1010 MAP

0 hours

Desiring to support students who struggle academically, the academic assistance center and the academic deans require students on academic probation to be enrolled in the Academic Probation Program called MAP – a unique avenue in which to cultivate scholarship and discipline from a holistic approach. The program 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: \$500)

### 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.

## The 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. Prospective students must complete a separate application, which is available through the admissions office.

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.

In 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 twenty students.

In the senior year, each honors student participates in the honors colloquium during the two semesters of the academic year. This senior seminar stresses the development of a Christian worldview in the midst of the contemporary pluralistic society.



Through the honors program, Cedarville University encourages superior scholarship, allows a thorough integration of the various disciplines, and provides the student an opportunity to understand better 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 hours**
- HON-1010 The Classical and Medieval Ages .....5
- HON-1020 Renaissance, Reformation, and Revolutions .....5

**II. Honors Integrative Seminars..... 4 hours**

Two seminars, typically 2 hours each, taken in the sophomore and junior years.

**III. Honors Research Project/Thesis ..... 2 hours**

Participation in a one-hour interdisciplinary colloquium each semester (HON-4910, HON-4920) or an interdisciplinary research project (HON-4950).

<sup>1</sup>If taken together, these two courses replace the following general education requirements:

- HUM-1400 Introduction to the Humanities .....3
- Humanities Elective .....3
- (or 2000-level philosophy course if required for the major)
- History Elective.....3

If either of these two courses are taken individually, the course may be designated as 5 semester hours of credit toward either the humanities or history general education requirements.

## Honors Course Descriptions

**Freshman Humanities Sequence: HON-1010,1020**

**The Making of the Modern Mind 10 hours**  
**HON-1010 The Classical and Medieval Ages 5 hours**

Explores those historical, religious, philosophical, and artistic beginnings that have shaped the modern mind or what some are now calling the “postmodern” mind. The story begins, naturally enough, at the beginning, in the mind of God and continues through the development of classical Greek and Roman culture. Concludes with a study of the rise of Christianity and its dominance of Western culture in the Middle Ages.

**HON-1020 Renaissance, Reformation, and Revolutions 5 hours**

Explores the changing balance of power in Western culture: from church to state, from faith to reason, from religion to science, and from piety to humanism. Traces out the implications of these shifts for cultural expressions and revolutions in the arts, religion, science, and philosophy and culminates in a study of late twentieth century postmodernism.

**Honors Seminars**

(Seminar offerings vary from year to year.)

**HON-3040 Gender, Politics, and Communication 2 hours**

Study of the places in which American women have found themselves since 1860, the expectations made upon them, and the influences they have had upon American society.

**HON-3050 Communication in the Information Age 2 hours**

Survey of the “new media” in electronic communication with an emphasis on the structures of the new media, their use in such areas as politics, education, business, and health care, the resulting changes in communication patterns in society, and the social and ethical issues raised by their use.



# Interdisciplinary Studies

## **HON-3060 Leadership** 2 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. Assigned reading and class processing of ideas and theories prepare the student for observation and evaluation of leaders in a variety of disciplines.

## **HON-3080 Creativity: The Birth of a Notion** 2 hours

Stimulates the participant to conscious creativity in every facet of life as an act of Christian stewardship. Creativity will be examined as one of the distinguishing marks of the image of God in man and as the essential ingredient in all artistic expression.

## **HON-3100** 2 hours

### **Two Philosophies of Teaching and Learning**

Workshop in integrative thinking, exploring comparisons and contrasts between the philosophies of education implicit in Proverbs 1-9 and explicit in the writings of John Dewey.

## **HON-3130** 2 hours

### **Perspectives on Friendship, Love, and Romance**

Explores friendship, love, and romance from historical, theological, and philosophical perspectives.

## **HON-3180 Aesthetics** 2 hours

Introduction to the study of aesthetics through an exploration of classical writings and the accounts of contemporary theorists, critics, and artists.

## **HON-3190 Postmodernism** 2 hours

An interdisciplinary analysis, critique, and response to postmodernism as it is reflected in contemporary culture.

## **HON-3200 Romanticism and Its Offspring** 2 hours

Study of the development of poetry and music from 1800 to the present postmodern pop culture.

## **HON-3210 Contemporary Global Issues—Sp** 2 hours

Designed to provoke critical thinking about a broad range of complicated, cross-disciplinary issues that confront the world today. Students will be introduced to issues that are truly global—planetary problems, global economy, environmental issues, human rights, and basic human needs.

## **HON-3220** 2 hours

### **The Rhetoric of Faith in the Christian Tradition**

Study of primary documents written in the genres of Christian confession, prayer, and creedal statement. These documents will be treated in two ways. First, they will be studied as historical representations of believers' use of language to express messages of the development of a renewed mind and spirit in the Christian faith. Second, they will be used as models for encouraging contemporary believers to employ the power of the written word in the development of a Biblical practice of meditating on, praying for, and affirming those things that are holy, righteous, and pure.

## **HON-3230 Chance, Emergence, or Design—Sp** 2 hours

The origin of complexity and order in the universe is studied from three different perspectives: Neo-Darwinism (chance and necessity), Emergence, and Creation. Starting at the origin of the physical universe and ending with the origin of self-awareness, these perspectives are compared by their scientific value and their philosophical and religious implications. (odd years)

## **HON-3240** 2 hours

### **Science & Religion: Middle Ages to Darwin—Sp**

A seminar centering on major primary sources in the history of science, exploring the historical relationship of science and religion, particularly Christian theology, from the late Middle Ages to the Darwinian Revolution.

## **HON-4155 Image and Word in a Visual Culture—Sp** 3 hours

Inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of

early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. *Crosslisted as EMTC-4155.*

## **HON-4910 Honors Senior Colloquium I** 1 hour

Development of a generic understanding of the integration of faith, learning, and life.

## **HON-4920 Honors Senior Colloquium II** 1 hour

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.

## 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:

1. 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 a minimum 3.25 grade point average.
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.
3. Each program must be approved by the standing individualized Studies Committee appointed by the academic vice president. Decisions of this committee may be appealed to the Deans Council.
4. When the Individualized Studies Committee approves a student's proposed program, it will assign an academic advisor for the student.
5. 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.
7. 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 grade point average in the program of at least 2.5.
  - 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 above.
  - 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.

## International Studies

The **international studies major** utilizes courses from several academic disciplines to prepare students for a variety of internationally focused careers. A distinct international studies core provides the foundation for all the concentrations available in this major. Courses in anthropology, business, communications, culture, geography, history, linguistics, and political science provide students with the basic understanding they need to appreciate the diverse international community. Concentration options enable students to focus upon a particular area of interest within the international context. Three concentrations are available.

Course requirements involve 21 semester hours of core requirements and 33-60 hours of concentration requirements, depending on the selected concentration.

<i>International Studies Core Requirements</i> .....	21
<sup>1,2</sup> ANTH-1800 Cultural Anthropology .....	3
<sup>2</sup> BEPH-2260 Religion and Culture.....	3
BUS-3910 International Business.....	3
<sup>2</sup> COM-3140 Intercultural Communication .....	3
(or PSYCH-1800 Cross Cultural Psychology .....	3)
GEO-3510 World Regional Geography-West.....	3
(or GEO-3520 World Regional Geography-East.....	3)
HIST-2010 History of Civilization I.....	3
(or HIST-2020 History of Civilization II.....	3)
INTL-3190 Global Issues.....	3

<sup>1</sup>satisfies social science General Education Requirement

<sup>2</sup>satisfies humanities General Education Requirement

### Concentrations

The following three concentrations are available:

- Global economics and international business
- Missiology
- Social science

### Global Economics and International Business Concentration

The **global economics and international business concentration** provides students with an economic view of the international community. Utilizing courses in business, economics, and political science, this program prepares business-oriented students for careers in international management, marketing, finance, comparative economics, missions, and the foreign service. Course requirements involve 55 hours, including:

<i>Business Administration Core Requirements</i> .....	37
ACCT-2110, 2120 Principles of Accounting I, II.....	6
BUS-2110 Statistics I.....	2
BUS-2120 Statistics II.....	2
BUS-2180 Business Law I.....	3
BUS-3990 Professional Development (2 semesters).....	0
BUS-4420 Business Ethics and Social Responsibility.....	2
BUS-4990 Executive Development (2 semesters).....	0
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
FIN-3710 Principles of Finance.....	3
MGMT-3500 Prin. of Organization and Management.....	3
*MGMT-4510 Administrative Policy and Strategy.....	3
MIS-1500 Information Technology for Business.....	2
MIS-1510 Software Tools for Business.....	2
MRKT-3600 Principles of Marketing.....	3
<i>Global Economics and International Business Requirements</i> .....	12
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade and Economics.....	3
ECON-3380 Economic Development and Political Economy.....	3
MGMT-3570 International Management.....	3
(or MRKT-4620 International Marketing.....	3)
(or FIN-3750 International Finance.....	3)
<i>Electives selected from:</i> .....	6
HIST-4050 Great Power Diplomacy in the Modern World.....	3
MGMT-3570 International Management.....	3
MRKT-4620 International Marketing.....	3
POLS-3650 International Relations.....	3
<i>Additional Required Cognate</i> .....	3
GMTH-1040 Calculus for Business.....	3

\*Capstone Course

In addition to these requirements, students must fulfill a foreign culture experience. Possible options include:

- Living abroad
- Foreign work-study program
- Foreign internships

Approval should be obtained from the business department chairperson. This requirement is generally not fulfilled by travel overseas or minimum Missions Involvement Services experience.

<b>International Studies Major–Global Economics and International Business Concentration Curriculum Summary:</b>	
Proficiency Requirements.....	0-5
Other General Education Requirements.....	40-48
International Studies Core Requirements.....	21
Global Economics and International Business Requirements.....	55
Required Cognates.....	3
Electives.....	1-9
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>



# Interdisciplinary Studies

## Missiology Concentration

The **missiology concentration** provides students with a missiological view of the international community. Involving coursework in mission, philosophy, sociology, geography, political science, economics, and literature, this program prepares students for a variety of mission-related positions. Course requirements involve 60 hours, including:

<i>Missiology Concentration Requirements</i> .....	42
BECE-4100 Leadership of CE Ministries.....	3
BENT-3XXX New Testament Elective .....	3
BEOT-3XXX Old Testament Elective.....	3
BEPT-2000 Introduction to Mission .....	3
BEPT-2400 Personal Evangelism .....	3
BEPT-2420 History of Mission.....	3
BEPT-3450 Contemporary World Mission.....	3
BEPT-3470 Cross-Cultural Ministry.....	3
BEPT-3510 Introduction to Urban Ministry .....	3
*BEPT-4500 Missionary Internship.....	6
BEST-4310 Hermeneutics.....	3
BETH-3XXX Theology Electives .....	6
<i>Electives selected from</i> .....	18
<i>Two courses in philosophy</i> .....	6
<sup>1</sup> BEPH-2200 Introduction to Philosophy .....	3
<sup>1</sup> BEPH-2250 Ethics .....	3
BEPH-3250 Philosophy of Religion .....	3
BETH-3330 Christian Evidences and Apologetics .....	3
<i>One course in sociology</i> .....	3
SOC-3340 Sociology of Religion .....	3
SOC-3710 Family and Society.....	3
<i>One course in geography or political science</i> .....	3
GEO-3510 World Regional Geography–West .....	3
GEO-3520 World Regional Geography–East .....	3
POLS-3200 History and Politics of Latin America.....	3
POLS-3210 History and Politics of Asia.....	3
POLS-3220 History and Politics of the Middle East.....	3
POLS-3540 History and Politics of Africa.....	3
POLS-3650 International Relations .....	3
POLS-4050 Great Power Diplomacy in the Modern World.....	3
<i>One course in economics</i> .....	3
ECON-3350 Comparative Economic Systems .....	3
ECON-3360 International Trade and Economics.....	3
ECON-3380 Economic Development and Political Economy .....	3
<i>One course in literature or culture</i> .....	3
<sup>2</sup> LIT-2340 Western Literature .....	3
SPAN-3680 Understanding Hispanic Culture .....	3

<sup>1</sup>Satisfies humanities General Education Requirement

<sup>2</sup>Satisfies literature General Education Requirement

\*Capstone Course

## International Studies Major – Missiology Concentration Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	40-48
International Studies Core Requirements.....	21
Missiology Concentration Requirements.....	60
Electives .....	0-7
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

## Social Science Concentration

The **social science concentration** 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 the foreign service, international media, international relations, and missions. Course requirements involve 30 hours, including:

<i>Social science requirements</i> .....	9
ECON-3350 Comparative Economic Systems .....	3
INTL-3650 International Relations.....	3
*INTL-4850 Research in International Studies .....	3
<i>Social Science Electives selected from</i> .....	21
<i>Three or more courses from the following</i> .....	9-15
ECON-3360 International Trade and Economics.....	3
ECON-3380 Econ. Development and Political Economy...3	
HIST-3080 History of Russia and the Soviet Union .....	3
INTL-3200 History and Politics of Latin America.....	3
INTL-3210 History and Politics of Asia.....	3
INTL-3220 History and Politics of the Middle East.....	3
INTL-3230 History and Politics of Western Europe .....	3
INTL-3240 History and Politics of Eastern Europe .....	3
INTL-3250 History and Politics of Central & South Asia .....	3
INTL-3540 History and Politics of Africa .....	3
INTL-3790 Comparative Politics .....	3
INTL-4050 Great Power Diplomacy in the Modern World...3	
INTL-4160 International and Domestic Terrorism .....	3
INTL-4800 Seminar in International Studies.....	3
INTL-4980 Independent Study in International Studies ..1-3	
(Travel study must be approved by the department)	
<i>At least one course from philosophy and theology</i> .....	3
BEPH-3250 Philosophy of Religion .....	3
BEPT-3450 Contemporary World Missions .....	3
<i>At least one course from language and literature</i> .....	3
LIT-3400 Studies in Contemporary World Literature.....	3
LIT-XXXX Any Non-American Literature Course .....	3
LING-3080 Linguistics for Language Learning .....	3

*Additional required cognate*.....7-15

Intermediate foreign language.....7-15

Students are also expected to have an in-depth cross-cultural experience in a non-American culture (at least six weeks).

## International Studies Major – Social Science Concentration Curriculum Summary:

Proficiency requirements.....	0-5
Other General Education Requirements .....	40
International Studies Core Requirements.....	21
Social Sciences and History Requirements.....	30
Required Cognates.....	7-15
Electives .....	22-30
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

A complete description of the general education requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in International Studies

### First year:

ANTH-1800 Cultural Anthropology.....	3
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	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
LIT-2340 Western Literature .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biology Elective.....	3.5
Physical Education Activity Elective.....	1
Quantitative Elective .....	3
<b>Total.....</b>	<b>32.5</b>

### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2260 Religion and Culture .....	3
COM-3140 Intercultural Communication.....	3
(or PSYCH-1800 Cross Cultural Psychology .....	3)
GEO-3510 World Regional Geography-West.....	3
(or GEO-3520 World Regional Geography-East.....	3)
HIST-2010 History of Civilization I .....	3
( or HIST-2020 History of Civilization II .....	3)
Concentration Requirement.....	3-12
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>33.5</b>

### Third year:

BEGE-3750 Christian Worldview Development.....	2
BUS-2910 International Business.....	3
INTL-3190 Global Issues .....	3
Concentration Requirements .....	12-24
Intermediate Foreign Language, if required.....	0-7
<b>Total.....</b>	<b>32</b>

### Fourth year:

BEGE-3760 Christian Worldview Integration.....	2
Concentration Requirements .....	15-24
Electives.....	4-11
<b>Total.....</b>	<b>28-30</b>



## Reserve Officer Training Corps (ROTC)

### Air Force Aerospace Studies

As a Cedarville University student, you have the opportunity to become an Air Force officer while the Air Force helps pay for your college. Through a cooperative agreement with Wright State University's Department of Aerospace Studies, we offer the ROTC program to full-time Cedarville University students pursuing a baccalaureate or master's degree. While all courses are taken through Cedarville University, leadership laboratories and classes for junior and senior years are taught at Wright State University, the host site of the area Air Force ROTC detachment. Cedarville University provides transportation.

The Air Force ROTC program is designed to produce Air Force officers who will be successful leaders and managers. All officers will be placed in positions of responsibility, facing challenging and rewarding career opportunities while using the most advanced technology in the world.

The Air Force ROTC 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. At minimum, officers will need to complete the POC portion of the program.

- The GMC is a **no-obligation** introduction to the Air Force. The course covers the development and history of air power and the organization of the contemporary United States Air Force.
- The POC curriculum covers communicative skills, Air Force management and leadership, American defense policy, and regional world studies.

Air Force ROTC students have additional opportunities to participate in challenging and rewarding activities that include skydiving, piloting a sail-plane, trips to air force bases, orientation flights, official military functions and ceremonies, and one-on-one mentoring with an active duty Air Force officer.

This program is open to **all majors**. All Air Force ROTC students have the opportunity to apply for **scholarships** that pay partial or full tuition, books, and fees, plus a \$250 - \$400 monthly stipend depending on your progress in the program. These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science, physics, and nursing.

High school students should apply for a scholarship no later than December 1st of their senior year. Apply at **www.afrotc.com**. In-college students will apply for scholarships through their ROTC instructor.

If you are a freshman seeking a challenge or wish to give Air Force ROTC a trial run, sign up for the Aerospace Studies 1210 course. All other students should contact the Department of Aerospace Studies, Wright State University, Dayton, Ohio 45435, phone: 937-775-2730, email: [afrotc@wright.edu](mailto:afrotc@wright.edu) (Web site: [www.wright.edu/academics/prog/rotc](http://www.wright.edu/academics/prog/rotc)), or the Cedarville University Admissions Office at 1-800-CEDARVILLE.

## Course Descriptions

**AES-1210,1220 The Air Force Today** 1 hour/sem

A survey course designed to introduce students to the United States Air Force and the Air Force Reserve Officer Training Corps (ROTC). Featured topics include the mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer career opportunities, group leadership problems, and an introduction to communication skills.

**AES-1211** 0 hours

**Leadership Laboratory (GMC): Applied Air Force ROTC Training**

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 History of the Air Force** 1 hour/sem

A survey course designed to provide students with an overview of the general aspects of air and space power through a historical perspective. It begins with the first military application of balloons through the actions in Kosovo and Afghanistan. It also shapes communication skills introduced in the freshman year.

**AES-2211** 0 hours

**Leadership Laboratory (FTP): Applied Air Force ROTC Training**

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of 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-3310,3320** 3 hours/sem

**Air Force Leadership and Management**

This course is a study of quality leadership and management fundamentals, professional military knowledge, Air Force doctrine, leadership ethics, and communication skills. Students use case studies to examine Air Force leadership and management situations.

**AES-3311** 0 hours

**Leadership Laboratory (ICL): Applied Air Force ROTC Training**

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 Preparation for Active Duty** 3 hours/sem

This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Topics focus on the military as a profession, officership, military justice, civilian control of the military, and current issues. Considered the capstone ROTC course with continued refinement of communication skills.

**AES-4311** 0 hours

**Leadership Laboratory (SCL): Applied Air Force ROTC Training**

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.

## Army

Reserve Officer Training Corps (ROTC) instruction leading to a commission as a second lieutenant in the United States Army is available to Cedarville University students. Freshman- and sophomore-level classes are taught at Cedarville University. Junior and senior-level classes, as well as drills, are conducted at Central State University, which is located four miles west of Cedarville. All Army ROTC courses are taken through Cedarville University.

The objectives of the Army ROTC program are:

1. To prepare students to serve as commissioned officers in the Regular Army, the Army National Guard, or the United States Army Reserve.
2. To provide an understanding of the fundamental concepts of military art and science.
3. To provide students with leadership and managerial training, a basic understanding of military professional knowledge, a strong sense of personal integrity, honor, individual responsibility, and an appreciation of the requirements for national security.

The standard four-year ROTC program involves two phases: the basic course during the first two years and the advanced course during the final two years. One can qualify for advance placement by being a veteran, a member of the United States Army Reserve or National Guard, or by attending six weeks of paid summer training following his or her sophomore year of college.

Students enrolled in the advanced course earn \$250 per month for a maximum of ten school months per year.

Two- and three-year merit scholarships, which pay for tuition, fees, textbooks and supplies are available. Recipients of these scholarships also receive \$250 per month for 10 months of the school year each school year the scholarship is in effect.

Students interested in pursuing a dual civilian and military career should request information about the Guaranteed ' Reserve Forces Duty Scholarships and Reserve Duty options. Interested individuals should contact the Professor of Military Science, Central State University, Wilberforce, Ohio, 45384. Phone: 937-376-ARMY or the Cedarville University Admissions Office.

Army ROTC course requirements count as elective credits in the 128 semester hours required for graduation.

## Course Descriptions

**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. Introduce 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 six week 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 are taught how to inspect soldier's 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 are taught how 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.*



## Mission Statement

The Cedarville University Department of Language and Literature seeks to achieve the following objectives:

1. To instruct students to write effectively.
2. To encourage students to read and appreciate literature.
3. To teach students to evaluate literature intelligently.
4. To provide a general knowledge of the chronology and the social and intellectual background of English, American, and Spanish literature.
5. To prepare students for graduate work in the fields of English, Spanish, and technical communication.
6. To prepare teachers of English and Spanish.
7. To prepare students for careers in technical communication.

## 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 language and literature, 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.

## Programs of Study

The department of language and literature offers the following programs:

### Majors

- English
- Language Arts Education – Integrated
- Spanish Education – Multi-Age
- Spanish
- Technical and Professional Communication

### Minors

- Creative Writing
- Editing and Publishing
- German
- Literature
- Spanish
- Spanish for Professionals
- TESOL (Teaching English to Speakers of Other Languages)
- Writing for the Professions

## Co-Curricular Opportunities

### Cedars

Students comprise the editorial staff of Cedarville's semi-monthly campus newspaper.

### Miracle

Students with writing, photography, editorial, and layout and design talent have the opportunity to compile and edit the University's annual yearbook.

### The Society for Technical Communication Student Chapter

Serves students in the technical and professional communication major. STC promotes communication in technical fields. Benefits of membership include job referral services, networking with professionals, and numerous social activities among faculty and students.

### 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

#### The ISEPS Program

The Instituto Sevillano de Estudios y Prácticas (ISEPS) is an independent, accredited educational and socio-cultural institute that offers a series of four unique overseas studies programs in Seville, Spain. These programs are carefully developed to address the requirements of undergraduates with particular abilities and interests leading to an international study abroad career preparation. Every ISEPS program is designed to be an educationally viable learning process that responds proportionately to the individual Spanish language level of each program participant. More information can be found at [www.SevilleStudies.com](http://www.SevilleStudies.com). Students interested in the program should contact Dr. Andrew Wiseman for additional information. *ISS (Institute of Spanish Studies)*

The Institute of Spanish Studies was established in 1950 in cooperation with the Universities of San Francisco and Valencia. In 1985 the institute became an independent program; at present it is associated with Longwood University of Virginia. Classes in Valencia, Spain, are held at the American Institute, with its own fully equipped premises. More information can be found at [www.spanish-studies.com](http://www.spanish-studies.com). Students interested in the program should contact Dr. Barbara Loach or Dr. Andrew Wiseman for additional information.

#### CIEE (Council on International Educational Exchange)

CIEE offers study abroad opportunities at its 60 CIEE Study Center programs in 29 countries around the world. The CIEE Study Centers provide curricula specifically designed with the U.S. undergraduate in mind and offer superior student services and activities that help students derive maximum benefit from the experience. More information can be found at [www.ciee.org](http://www.ciee.org). Students interested in the program should contact Dr. Andrew Wiseman for additional information.

## Technical Resources

Cedarville's **Writing Center** serves the University community as a place to build skills for better writing across the disciplines. It also functions as a training ground for students who tutor there, assist in administration, or aid faculty with research projects related to writing centers.

Students also have industry-standard software available to strengthen their professional skills, including:

- Reading and writing skill builders
- Language tutorials
- Publication design



## Career Opportunities

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

- Creative writing
- International business
- Journalism
- Law
- Publishing
- Missions
- Teaching
- Technical communication
- Technical marketing communication
- Web design

## Faculty

**Kevin Heath**, *Chairman*: 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.

**Gregory Belliveau**, Assistant Professor of English. *Education*: B.A., Kent State University, 1990; M.A., Kent State University, 1995. At Cedarville since 1996.

**Scott Calhoun**, Associate 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**, Assistant 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**, Associate Professor of English. *Education*: B.A., Gettysburg College, 1989; M.A., University of Maryland, 1990; Ph.D., University of Rhode Island, 1995. At Cedarville since 1996.

**Ryan Futrell**, Assistant Professor of English. *Education*: B.A., Cedarville University, 1997; M.F.A., University of North Carolina at Greensboro, 2000. At Cedarville since 2003.

**Nellie Haack**, Assistant Professor of English. *Education*: B.S., Central Michigan University, 2002; M.A. Central Michigan, 2004; M.F.A., University of Iowa, 2006. At Cedarville since 2006.

**Sandra Harner**, Professor of Technical Communication. *Education*: B.A., Cedarville University, 1964; M.A., University of Dayton, 1981. At Cedarville since 1981.

**Shannah Hogue**, Assistant Professor. *Education*: B.A., Cedarville University, 1999; M.A., The Ohio State University, 2001. At Cedarville since 2002.

**Barbara Loach**, 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.

**Cynthia Messer**, Assistant Professor of English. *Education*: B.A., Cedarville University, 1994; M.A., Wright State University, 1998. At Cedarville since 1998.

**Julie Moore**, Assistant Professor of English. *Education*: B.A., Cedarville University, 1987; M.A., The University of Dayton, 1989; The Ohio Writing Project, Miami University, 1993. At Cedarville since 1999.

**Karen Power**, Assistant Professor of English. *Education*: B.S., The Ohio State University, 1976; M.A., Wright State University, 1995. At Cedarville since 1995.

**Annis Shaver**, Assistant Professor of German. *Education*: B.A., B.S., Tennessee Technological University, 1978; M.A. Louisiana University, 1980; Ph.D. University of Miami, 2004. At Cedarville since 2005.

**Edward Spencer**, Professor of English. *Education*: B.A., Ashland College, 1947; M.Th., Faith Seminary, 1951; M.A., University of Dayton, 1968; graduate study, Bowling Green State University, 1969. At Cedarville since 1962.

**Peggy Wilfong**, Professor of English. *Education*: B.A., Tennessee Temple University, 1976; M.A., University of Alabama in Huntsville, 1990; Ph.D., Indiana University of Pennsylvania, 2000. At Cedarville since 2000.

**Andrew S. Wiseman**, Assistant Professor of Spanish. *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**, Assistant Professor of English. *Education*: B.A., Cedarville University, 1992; M.A., Wright State University, 1997. At Cedarville since 1995.

**Raymond Bartholomew**, Professor Emeritus of English. *Education*: B.A., Cedarville University, 1957; M.A., Case-Western Reserve University, 1959; Ph.D., Case-Western Reserve University, 1964. At Cedarville 1959-1966, 1983 to present.

**Harmon Bergen**, Associate Professor Emeritus of Foreign Languages. *Education*: Graduate, American Seminary of the Bible, 1946; B.A., Wheaton College, 1958; M.A., Indiana University, 1966. At Cedarville from 1958 to 1990.

**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.



*Creativity and innovative ideas are generated as students and faculty work together.*

## English

Course requirements for the **English major** involve 52 semester hours including:

<i>Core Requirements</i> .....	24
ENG-2230 Advanced Composition .....	3
LIT-2090 Literary Analysis .....	3
LIT-2340 Western Literature .....	3
LIT-2390 Survey of American Literature to 1900 .....	3
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-4220 English Seminar .....	3
<i>Studies in Modern Literature: Two Courses</i> .....	6
LIT-3380 Contemporary British Literature .....	3
LIT-3400 Studies in Contemporary World Literature .....	3
LIT-3510 Modern American Literature .....	3
LIT-4510 Recent American Literature .....	3
<i>Historical Studies in English: Two Courses</i> .....	6
ENG-3060 The English Language .....	3
LIT-3170 American Literature: 1820-1865 .....	3
LIT-3180 American Literature: 1865-1914 .....	3
LIT-3305 18th Century British Literature .....	3
LIT-3320 Renaissance Literature .....	3
LIT-3340 19th Century British Literature .....	3
LIT-4450 Milton: Poetry & Selected Prose .....	3
<i>Genre Studies: Two Courses</i> .....	6
LIT-2130 Dramatic Literature .....	3
LIT-3310 English Novel .....	3
LIT-3420 American Novel .....	3
LIT-4310 Advanced Literary Theory .....	3
LIT-4420 European Novel .....	3
<i>Electives in English/Literature</i> .....	10

\*Capstone Course

### English Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	49-57
English Major Requirements .....	52
Electives .....	19-27
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in English

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
LIT-2090 Literary Analysis .....	3
LIT-2340 Western Literature .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
History Elective .....	3
Physical Education Activity Elective .....	1
<b>Total .....</b>	<b>32.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
ENG-2230 Advanced Composition .....	3
LIT-2390 Survey of American Literature to 1900 .....	3
LIT-2430 Survey of British Literature to 1800 .....	3
LIT-2440 Survey of British Literature from 1800 to Present .....	3
Physical Science Elective .....	3.5
Quantitative Elective .....	3
Social Science/Global Awareness Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>33.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
LIT-3350 Shakespeare .....	3
Literature Electives: Historical Studies in English .....	6
Literature Electives: Studies in Modern Literature .....	6
Electives .....	12
<b>Total .....</b>	<b>31</b>

#### Fourth year:

LIT-4220 English Seminar .....	3
Literature Genre Studies .....	6
English Electives .....	10
Humanities Elective .....	3
Electives .....	9
<b>Total .....</b>	<b>31</b>

### Technical and Professional Communication

The technical and professional communication major prepares students for positions as communication experts in a variety of industries. The major itself involves 57 semester hours in specific technical and professional communication courses.

<i>Technical and Professional Communication Core</i> .....	57
ENG-2230 Advanced Composition.....	3
ENG-3070 Advanced Grammar for Adolescent Teachers.....	3
TPC-3000 Production Tools for Technical Communication.....	3
TPC-3010 Style for Technical Communicators.....	3
TPC-3020 Professional Portfolio Development I.....	1
TPC-3090 Technical Marketing Communication.....	3
TPC-3100 Designing Visual Communication.....	3
TPC-3130 Technical Communication.....	3
TPC-3170 The Technical Communicator in a Corporate Culture.....	2
TPC-3210 Technical Editing.....	2
TPC-3250 Design of Manuals.....	3
TPC-3290 Proofreading.....	2
TPC-4010 Designing Technical Reports.....	3
TPC-4020 Professional Portfolio Development II.....	1
TPC-4050 Designing Information for the Web.....	3
TPC-4090 Designing Online Information.....	3
TPC-4130 Instructional Design.....	3
TPC-4160 Internship: Technical and Professional Communication.....	10
*TPC-4170 Special Topics.....	3

\*Capstone Course

#### Technical and Professional Communication Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	52-60
Technical and Professional Communication Requirements.....	57
Electives.....	11-19
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

#### Technical and Professional Communication Industry Advisory Board

The TPC industry advisory board aims to enable the department to adequately position the TPC major and its graduates for the future.

Board members include:

*Mike Bates, Intuit, Inc.*

*Scott Bennett, Procter and Gamble*

*Donna Kaufman, retired, Jenzabar, Inc.*

*Dave Kimmel, AVETeC*

*Sylvia Miller, Militech, LLT*

*Walt Staudenmaier, Bastion Consulting*

*Phil Wittmer, Lexis/Nexis*

*Tom Zimmerman, GE Medical Systems*

#### Suggested Four-Year Curriculum for a Major in Technical and Professional Communication

##### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology.....	3.5
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 the Christian Life.....	1
History Elective.....	3
Literature Elective.....	3
Physical Education Activity Elective.....	1
Quantitative Elective.....	3
<b>Total.....</b>	<b>32.5</b>

##### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
ENG-2230 Advanced Composition.....	3
ENG-3070 Advanced Grammar for Adolescent Teachers.....	3
Humanities Elective.....	3
Physical Science Elective.....	3.5
Social Science.....	3
Electives.....	11
<b>Total.....</b>	<b>32.5</b>

##### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
TPC-3000 Production Tools for Technical Communication.....	3
TPC-3010 Style for Technical Communicators.....	3
TPC-3020 Professional Portfolio Development.....	1
TPC-3100 Designing Visual Communication.....	3
TPC-3130 Technical Communication.....	3
TPC-3170 The Technical Communicator in a Corporate Culture.....	2
TPC-3210 Technical Editing.....	2
TPC-3250 Design of Manuals.....	3
Electives.....	2
<b>Total.....</b>	<b>26</b>

##### Summer

TPC-3290 Proofreading.....	2
TPC-4160 Internship.....	10
<b>Total.....</b>	<b>12</b>

##### Fourth year:

TPC-3090 Technical Marketing Communication.....	3
TPC-4010 Designing Technical Reports.....	3
TPC-4020 Professional Portfolio Development II.....	1
TPC-4050 Designing Information for the Web.....	3
TPC-4090 Designing Online Information.....	3
TPC-4130 Instructional Design.....	3
TPC-4170 Special Topics.....	3
Electives.....	6
<b>Total.....</b>	<b>25</b>

## 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 18. Language students are also encouraged to consider the study abroad options listed under Travel Study Opportunities.

## 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.

Course requirements involve 34 semester hours including:

SPAN-2710, 2720 Intermediate Spanish I & II .....	7
SPAN-3610 Spanish Composition .....	3
SPAN-3620 Spanish Conversation .....	3
SPAN-3640 Introduction to Hispanic Literature .....	3
SPAN-4610 Advanced Spanish Grammar .....	3
*SPAN-4640 Topics in Hispanic Culture .....	3
<i>Two courses selected from the following</i> .....	6
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 .....	3
SPAN-4750 Civilization and Literature of Spain II .....	3
<i>Electives in Spanish</i> .....	6

\*Capstone Course

### Spanish Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	49
Spanish Major Requirements .....	34
Electives .....	45
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Spanish

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
SPAN-1710, 1720 Elementary Spanish* .....	8
History Elective .....	3
Physical Education Activity Elective .....	1
Elective .....	3
<b>Total .....</b>	<b>34.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
GSS-1100 Politics and American Culture .....	3
SPAN-2710, 2720 Intermediate Spanish .....	7
Literature Elective .....	3
Physical Science Elective .....	3.5
Quantitative Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>31.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
SPAN-3610 Spanish Composition .....	3
SPAN-3620 Spanish Conversation .....	3
SPAN-3640 Introduction to Hispanic Literature .....	3
Social Science Elective .....	3
Electives .....	18
<b>Total .....</b>	<b>34</b>

#### Fourth year:

SPAN-4610 Advanced Spanish Grammar .....	3
SPAN-4640 Topics in Hispanic Culture .....	3
Spanish Literature Electives .....	6
Spanish Electives .....	6
Electives .....	10
<b>Total .....</b>	<b>28</b>

\* Elementary Spanish does not count toward the major.

## 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 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 department of education section of this catalog.

Course requirements involve 62 hours in integrated language arts and 33-35 hours in professional education requirements.

<i>Language Arts Education Core</i> .....	53
COM-2300 Voices of Diversity .....	3
COM-2320 Theories of Mass Media .....	3
EDSE-3100 Contemporary Young Adult Literature .....	3
ENG-2230 Advanced Composition .....	3
ENG-3060 The English Language .....	3
ENG-3070 Advanced Grammar for Adolescent Teachers .....	3
ENG-3110 Style and Mechanics for Writers .....	3
ENG-3300 Developmental Reading .....	3
ENG-4200 Methods of Teaching Writing .....	2
LIT-2090 Literary Analysis .....	3
LIT-2120 History of Literary Criticism .....	3
LIT-2340 Western Literature .....	3
LIT-2390 Survey of American Literature to 1900 .....	3
LIT-2430 Survey of British Literature to 1800 .....	3
LIT-2440 Survey of British Literature from 1800 to Present .....	3
LIT-3200 Methods of Teaching Integrated Language Arts .....	3
LIT-3350 Shakespeare .....	3
LIT-3440 Multiethnic American Literature .....	3
<i>One course from each of the following selections</i> .....	9
<i>Studies in Modern Literature</i> .....	3
LIT-3340 Contemporary World Literature .....	3
LIT-3380 Contemporary British Literature .....	3
LIT-4310 Literary Theory .....	3
LIT-4510 Recent American Literature .....	3
<i>Genre Studies</i> .....	3
LIT-3310 English Novel .....	3
LIT-3420 American Novel .....	3
LIT-4310 Literary Theory .....	3
LIT-4420 European Novel .....	3
<i>Writing Studies</i> .....	3
ENG-3030 Creative Writing: Fiction .....	3
ENG-3040 Creative Writing: Poetry .....	3
ENG-3050 Creative Writing: Non-Fiction .....	3
<i>Professional Education Requirements</i> .....	33-35
EDSE-4100 Principles of Teaching–AYA .....	5
EDSE-4450 Clinical Experience–AYA .....	3
*EDSE-4900 Student Teaching and Seminar–AYA .....	10-12
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDSP-4000 Principles of Inclusion .....	1
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
EDUC-4500 Philosophy of Education .....	2

\*Capstone Course

## Language Arts-Integrated Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	46-54
Language Arts Integrated Major Requirements .....	62
Education Requirements .....	33-35
<b>Total (minimum, not including proficiency) .....</b>	<b>141</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Language Arts Education - Integrated

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech .....	3
COM-2320 Theories of Mass Media .....	3
EDUC-1000 The Education Profession .....	1
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
LIT-2090 Literary Analysis .....	3
LIT-2120 History of Literary Criticism .....	3
LIT-2340 Western Literature .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
<b>Total .....</b>	<b>35.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multi-Cultural Field Experience .....	1
EDUC-2500 Educational Psychology .....	3
ENG-3070 Advanced Grammar for Adolescent Teachers .....	3
ENG-3110 Style and Mechanics for Writers .....	3
GMTH-1010 Introduction to Mathematics .....	3
LIT-2390 Survey of American Literature to 1900 .....	3
LIT-2430 Survey of British Literature to 1800 .....	3
Physical Education Activity Elective .....	1
Writing Studies Elective .....	3
<b>Total .....</b>	<b>36</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
EDSE-3100 Contemporary Young Adult Literature .....	3
EDSE-4100 Principles of Teaching–AYA .....	5
EDSE-4450 Clinical Experience–AYA .....	3
EDSP-4000 Principles of Inclusion .....	1
ENG-2230 Advanced Composition .....	3
ENG-3060 The English Language .....	3
ENG-3300 Developmental Reading .....	3
LIT-2440 Survey of British Literature from 1800 to Present .....	3
LIT-3350 Shakespeare .....	3
Physical Science Elective .....	3.5
Social Science Elective .....	3
<b>Total .....</b>	<b>36.5</b>

#### Fourth year:

BEGE-3760 Christian Worldview Integration .....	2
COM-2300 Voices of Diversity .....	3
EDSE-4900 Student Teaching and Seminar–AYA .....	10-12
EDUC-4500 Philosophy of Education .....	2
ENG-4200 Methods of Teaching Writing .....	2
English Novel Elective .....	3
LIT-3200 Methods of Teaching Integrated Language Arts .....	3
LIT-3440 Multiethnic American Literature .....	3
Modern Literature Elective .....	3
History Elective .....	3
<b>Total .....</b>	<b>34-36</b>

## 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 Department of Education section in this catalog.

Course requirements involve 53 credit hours in Spanish and 42-44 credit hours in professional education requirements including:

<i>Spanish Education major core courses:</i> .....	<b>44</b>
LING-3080 Linguistics for Language Learning .....	3
SPAN-1710, 1720 Elementary Spanish I & II .....	8
SPAN-2710, 2720 Intermediate Spanish I & II .....	7
SPAN-3610 Spanish Composition.....	3
SPAN-3620 Spanish Conversation.....	3
SPAN-3640 Introduction to Hispanic Literature .....	3
SPAN-4610 Advanced Spanish Grammar.....	3
SPAN- 4650, 4670 Civilization and Literature of Latin America I, II .....	6
SPAN-4680 Advanced Conversation and Composition.....	2
SPAN-4740, 4750 Civilization and Literature of Spain I, II .....	6
<i>Electives in Spanish</i> .....	<b>9</b>
SPAN-3670 Introduction to Translation .....	2
SPAN-3680 Understanding Hispanic Cultures .....	3
SPAN-3690 Hispanic Film .....	3
SPAN-4640 Topics in Hispanic Culture .....	3
SPAN-4700 Independent Study.....	1-3
SPAN-4790 Twentieth Century Spanish Theatre.....	3
<i>Professional Education Requirements</i> .....	<b>42-44</b>
EDSE-4100 Principles of Teaching–AYA.....	5
EDSE-4450 Clinical Experience–AYA .....	3
EDSP-4000 Principles of Inclusion.....	1
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2100 Technology in the Classroom .....	2
EDUC-2500 Educational Psychology.....	3
EDUC-4000 Reading in the Content Area–Multi-Age.....	3
EDUC-4500 Philosophy of Education.....	2
*EDUC-4900 Student Teaching and Seminar–Multi-Age.....	10-12
SPAN-3350 Elementary Education for Foreign Language Teachers .....	2
SPAN-3600 Clinical Teaching in Spanish .....	2
SPAN-3700 Methods of Teaching Foreign Language .....	2

### Spanish Education Multi-Age Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	46
Spanish Education Multi-Age Major Requirements .....	53
Education Requirements .....	42-44
<b>Total (minimum, not including proficiency) .....</b>	<b>141</b>

### Suggested Four-Year Curriculum for a Major in Spanish Education - Multi-Age

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
ENG-1400 Composition .....	3
GMTH-1800 Introduction to Mathematics .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
SPAN-1710, 1720 Elementary Spanish (CLEP) .....	8
SPAN-2710, 2720 Intermediate Spanish .....	7
SPAN-3640 Introduction to Hispanic Literature .....	3
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>42.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2060 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multi-Cultural Field Experience.....	1
EDUC-1050 Contemporary Christian Schools.....	0
GSCI-1020 Principles of Physical Science .....	3.5
LING-3080 Linguistics for Language Learning .....	3
SPAN-3610 Spanish Composition .....	3
SPAN-3620 Spanish Conversation .....	3
SPAN-4680 Advanced Conversation and Composition .....	2
SPAN-4740, 4750 Civilization and Literature of Spain I, II.....	6
<b>Total.....</b>	<b>31.5</b>

#### Third year:

BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
EDUC-2500 Educational Psychology .....	3
EDUC-4000 Reading in the Content Area–Multi-Age .....	3
GSS-1100 Politics and American Culture .....	3
SPAN-4640 Topics in Hispanic Culture .....	2
SPAN-4650, 4670 Civilization and Literature of Latin America I, II.....	6
SPAN-3350 Elementary Education for Foreign Language Teachers .....	2
SPAN-3600 Clinical Teaching in Spanish .....	2
SPAN-3690 Hispanic Film.....	3
History Elective .....	3
Social Science Elective.....	3
<b>Total.....</b>	<b>35</b>

#### Fourth year:

BEGE-3760 Christian Worldview Integration .....	2
EDSE-4100 Principles of Teaching–AYA.....	5
EDSE-4450 Clinical Experience–AYA .....	3
EDSP-4000 Principles of Inclusion .....	1
EDUC-4500 Philosophy of Education .....	2
EDUC-4900 Student Teaching and Seminar–Multi-Age .....	10-12
SPAN-4610 Advanced Spanish Grammar .....	3
SPAN-4780 The Golden Age .....	3
SPAN-4700 Independent Study in Spanish .....	2
SPAN-3700 Methods of Teaching Foreign Language .....	2
<b>Total.....</b>	<b>33-35</b>

## Minors

### Creative Writing Minor

The minor in **creative writing** is designed to enhance the student's abilities in various modes of writing. Course requirements involve 16 credit hours including:

ENG-2230 Advanced Composition	3
ENG-3030 Creative Writing: Fiction	3
ENG-3040 Creative Writing: Poetry	3
ENG-3050 Creative Writing: Nonfiction	3
<i>Advanced Workshops (choose two from the following)</i>	4
ENG-4030 Advanced Workshop: Fiction	2
ENG-4040 Advanced Workshop: Poetry	2
ENG-4050 Advanced Workshop: Nonfiction	2
ENG-4345 Portfolio and Performance	1

### Editing and Publishing Minor

The **editing and publishing minor** is designed to prepare students for careers in the publishing field. Course requirements involve 19 credit hours including:

ENG-2230 Advanced Composition	3
ENG-3070 Advanced Grammar	3
ENG-3110 Style and Mechanics for Writers	3
(or TPC-3010 Style for Technical Communicators)	3
TPC-3000 Production Tools for Technical Communication	3
TPC-3100 Designing Visual Communication	3
TPC-3210 Technical Editing	2
TPC-3290 Proofreading	2

### Writing for the Professions Minor

The **writing for the professions minor** is designed to prepare students from a variety of majors to be better writers and to acquire the professional skills required in a corporate setting.

Course requirements involve 18 credit hours including:

ENG-3110 Style and Mechanics for Writers	3
(or TPC-3010 Style for Technical Communicators)	3
TPC-3000 Production Tools for Technical Communication	3
TPC-3100 Designing Visual Communication	3
TPC-3090 Technical Marketing Communication	3
TPC-4090 Designing Information for the Web	3
TPC-4130 Instructional Design	3

### German Minor

The minor in **German** is designed to enhance the student's abilities in various modes of writing. Course requirements involve 17 credit hours including:

GER-1820 Elementary German II	4
GER-2810 Intermediate German I	4
GER-2820 Intermediate German II	3
GER-3830 Survey of German Literature	3
3000-level German Electives	3

### Literature Minor

The **literature minor** is designed to enhance the student's knowledge and appreciation of literature and the English language. Course requirements involve 15 credit hours including:

LIT-2340 Western Literature	3
American Literature: One course	3
British Literature: One course	3
Literature Electives: 3000-4000-level	6

### Spanish Minor

The **Spanish minor** is designed to enhance the student's understanding and skill in foreign language. Course requirements for the Spanish minor involve 17 hours including:

SPAN-1720 Elementary Spanish	4
SPAN-2710, 2720 Intermediate Spanish	7
SPAN-3640 Introduction to Hispanic Literature	3
Spanish Elective: 3000- or 4000-level	3

### Spanish for Professionals Minor

The **Spanish for professionals minor** is designed for careers linked to public service (social work, criminal justice, health care, and other related fields). Course requirements for the Spanish for professionals minor involve 16 credit hours including:

SPAN-2710, 2720 Intermediate Spanish	7
SPAN-3620 Spanish Conversation	3
SPAN-3660 Spanish for Professionals	3
SPAN-3680 Understanding Hispanic Cultures	3

## TESOL Endorsement and Minor

### (Teaching English to Speakers of Other Languages)

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. In order to receive the certificate, a student must earn a 3.0 average for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 600 or above on the paper exam or 250 on the computer exam and a score of 55 or above on the Test of Spoken English or have department approval in order to qualify for admission. Course requirements for the TESOL endorsement involve 20 hours including:

COM-3140 Intercultural Communication	3
ENG-3060 History of the English Language	3
ENG-3070 Advanced Grammar for Adolescent Teachers	3
LING-3080 Linguistics for Language Learning	3
LING-3090 Sociolinguistics	3
LING-3600 Clinical Teaching English as a Second Language	1
LING-3610 Practicum	2
LING-3700 Methods of Teaching Foreign Language	2

The **minor in TESOL** 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. In order to receive the certificate, a student must earn a 3.0 average for the courses of the minor. Non-native speakers of English must achieve a TOEFL score of 600 or above on the paper exam or 250 on the computer exam and a score of 55 or above on the Test of Spoken English or have department approval in order to be admitted to the minor. Course requirements for the TESOL minor involve 16 hours including:

COM-3140 Intercultural Communication	3
ENG-3070 Advanced Grammar for Adolescent Teachers	3
LING-3080 Linguistics for Language Learning	3
LING-3090 Sociolinguistics	3
LING-3700 Methods of Teaching Foreign Language	2
*LING-3710 TESOL Practicum for Non-education Majors	2

\*May be satisfied by satisfactory completion of LING-3600 and LING-3610.

## Course Descriptions

**ENG-1000 Basic English—Fa** **3 hours**

Study of nomenclature, identification, and application in the linguistic process. Admission by departmental designation only. May not be applied toward the hours needed for graduation.

**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.

**ENG-2210 Principles of Journalism—Fa,Sp** **3 hours**

An introductory study of the fundamental skills needed for collecting, organizing, writing, editing, and evaluating material for the common types of news stories, along with a consideration of ethical and legal issues for the print journalist. Strong emphasis is on developing journalistic writing skills. *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-3030 Creative Writing: 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.*

**ENG-3040 Creative Writing: Poetry—Sp** **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 a knowledge of the tradition, issues, and forms of poetry. *Prerequisite: ENG-1400 Composition.*

**ENG-3050 Creative Writing: Nonfiction—Sp** **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.*

**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** **3 hours**

**Advanced Grammar for Adolescent Teachers—Fa,Sp**

Review of standard grammar with emphasis on current teaching methods of grammatical analysis. Required of all majors with English as a teaching field.

**ENG-3110 Style and Mechanics for Writers—Sp** **3 hours**

Provides reliable principles that make writing clear, concise, coherent, and cohesive as students apply these principles to various texts. (*Not for technical and professional communication majors.*) *Prerequisite: ENG-1400 Composition.*

**ENG-3220 Advanced Journalism—Sp** **2 hours**

Designed for the student who anticipates writing as a vocation or avocation. The emphasis is on reporting and writing for newspapers and magazines. Topics of study include: beat reporting, developing the in-depth features and series, investigative practices, standards and ethics, community and publisher relations, and manuscript production. *Prerequisite: ENG-2210 Principles of Journalism.*

**ENG-3300 Developmental Reading—Sp** **3 hours**

Includes basic philosophies, testing, evaluation, clinical methods, and materials utilized in the prescriptive teaching of basic reading skills in the language arts content area for adolescent/young adult teachers. Field and clinical experiences included. *Prerequisite: admission to the teacher education program. (Fee: \$25)*

**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-3620 Practicum in Journalism—Fa,Sp** **1 hour**

Experience in the varied tasks of the journalistic enterprise. *Prerequisite: ENG-2210 Principles of Journalism.*

**ENG-4030 Advanced Workshop: Fiction—Fa** **2 hours**

Course provides an opportunity to do high-level work in fiction writing. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3030 Creative Writing: Fiction (odd years)*

**ENG-4040 Advanced Workshop: Poetry—Sp** **2 hours**

Course provides an opportunity to do high-level work in poetry. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3040 Creative Writing: Poetry (odd year)*

**ENG-4050 Advanced Workshop: Nonfiction—Sp** **2 hours**

Course provides an opportunity to do high-level work in creative nonfiction. Workshop environment will be rigorous and diagnostic, but also supportive. *Prerequisite: ENG-3050 Creative Writing: Nonfiction. (even year)*

**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. *Prerequisite: 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.



The English department faculty prepare students to think broadly and to evaluate literature and life from a Christian perspective.

Language and Literature



**ENG-4345** **1 hour**

**Creative Writing; Portfolio and Performance—Fa,Sp**

Course provides an opportunity to prepare a final collection of creative writing in close consultation with the advising professor. Students will also organize and present a public reading of their work. *Prerequisite: any two 4000-level creative writing workshops.*

**World, English, and American Literature**

**LIT-2090 Literary Analysis—Fa,Sp** **3 hours**

Introductory study of basic textual analysis and traditional 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.

**LIT-2120 History of Literary Criticism—Sp** **3 hours**

A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have defined the critical canon as the result of the way they addressed three questions: What is the function of literature? What is the role of an author? How do we evaluate literature? Featured writers will range from Plato, Aristotle, and Augustine to Lewis, Eliot, and Bakhtin.

**LIT-2130 Dramatic Literature—Sp** **3 hours**

Survey of major dramatic works from Greek to modern day playwrights, emphasizing the relationships among themes and dramatic construction amid various cultural and historical contexts. Can be applied to meet English or communication arts requirements, but not both. *Prerequisite: major status or permission of instructor.*

**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 Mythology—Fa** **3 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-2350 Christian Motifs in Film—Sp** **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 class will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith.

**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,Sp** **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-3170 American Literature: 1820-1865—Sp** **3 hours**

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. *Prerequisite: LIT-2390 Survey of American Literature to 1900. (even years)*

**LIT-3180 American Literature: 1865-1914—Sp** **3 hours**

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, Chesnut, Crane, London, Dreiser, Norris, Alcott, and others. *Prerequisite: LIT-2390 Survey of American Literature to 1900. (odd years)*

**LIT-3200** **3 hours**

**Methods of Teaching Integrated Language Arts—Sp**

This course is designed to explore the various methods and materials essential to teaching language arts in the secondary classroom. *Prerequisite: EDUC-2000 Introduction to Teaching, currently in EDSE-3100 Principles of Teaching AYA, or permission of instructor.*

**LIT-3230 Directed Readings—Fa,Sp** **1-3 hours**

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.

**LIT-3240 Directed Writings—Fa,Sp** **1-3 hours**

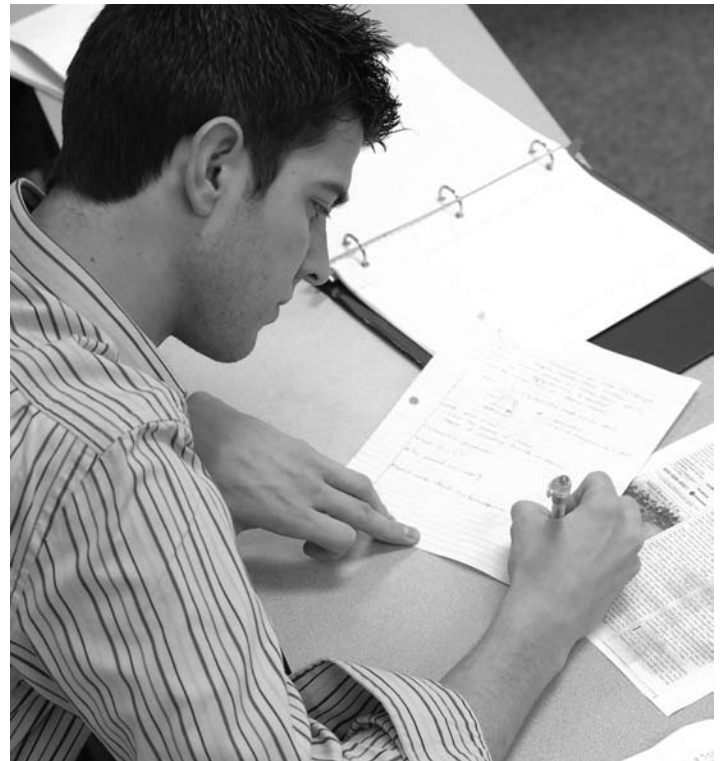
Students will work in close consultation with a faculty member on the creation and production of a significant project in one of the following genres: poetry, fiction, creative nonfiction. (*Prerequisite: any 3000-level creative writing workshop.*)

**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. *Prerequisite: ENG-1400 Composition. (even years)*

**LIT-3320 Renaissance Literature—Sp** **3 hours**

A study of Metaphysicals, Milton, and other selected Renaissance writers.



# Language and Literature

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## LIT-3330 18th Century British Literature—Fa 3 hours

Study of British writers from the Restoration through the Age of Johnson. *Prerequisite: major status or permission of the instructor.*

## LIT-3340 19th Century British Literature—Sp 3 hours

Study of the major Romantic Victorian writers, giving emphasis to Wordsworth, Byron, Shelley, Keats, Browning, Arnold, and Tennyson. *Prerequisite: major status or permission of instructor.*

## LIT-3350 Shakespeare—Fa 3 hours

Representative comedies, history plays, tragedies, and sonnets. *Prerequisite: major status 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. *Prerequisite: major status or permission of instructor.*

## LIT-3400 3 hours

### Studies in Contemporary World Literature—Sp

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. *Prerequisite: major status or permission of the instructor.* (even years)

## LIT-3420 American Novel—Fa 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. *Prerequisite: major status or permission of instructor.* (odd years)

## LIT-3430 Literature of the American South—Sp 3 hours

Study of the literature of the American South, covering its historical development, its major themes and authors, and its contemporary status. (*Prerequisites: major status or permission of the instructor.*) (even years)

## LIT-3440 Multiethnic American Literature—Fa 3 hours

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. *Prerequisites: LIT-2090 Literary Analysis, LIT-2390 Survey of American Literature to 1900.*

## LIT-3510 Modern American Literature—Sp 3 hours

Study of major American authors of the 20th century.

*Prerequisite: major status or permission of instructor.*

## LIT-3520 C.S. Lewis and The Inklings—Sp 3 hours

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; along with his continuing influence. *Prerequisite: major status or permission of instructor.* (even years)

## LIT-4220 English Seminar—Sp 3 hours

Designed to help the student synthesize his or her major areas of study. Required of all senior English majors. Capstone course.

## LIT-4230 Independent Study in Literature—Fa,Sp 1-3 hours

Independent study in a selected field for students with special interests and demonstrated ability.

## LIT-4310 Literary Theory—Fa 3 hours

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts. *Prerequisite: LIT-2090 Literary Analysis.*

## LIT-4420 European Novel—Fa 3 hours

Study of the 19th and 20th century influence on the novel from Balzac to Camus. *Prerequisite: major status or permission of instructor.*

## 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.

*Prerequisite: major status or permission of instructor.* (even years)

## LIT-4490 Special Topics—Fa,Sp 1-3 hours

Investigation of such literary phenomena that have intrinsic worth and engage student interest.

## LIT-4510 3 hours

### Recent American Literature 1945-Present—Sp

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. *Prerequisite: any 2000-level literature course.*

## Technical & Professional Communication

### TPC-3000 3 hours

#### Production Tools for Technical Communication

Students will learn to produce print and electronic media through hands-on introduction to various tools used by technical communicators.

### TPC-3010 Style for Technical Communicators—Fa 3 hours

Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. *Prerequisite: technical and professional communication major status, or permission of instructor.*

### TPC-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.

### TPC-3090 Technical Marketing Communication—Fa 3 hours

Students will learn to create marketing materials for the technical industry, from design to completion. *Prerequisites: TPC-3010 Style for Technical Communicators; TPC-3100 Designing Visual Communication.*

### TPC-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: TPC-3000 Production Tools for Technical Communication.*

**TPC-3130 Technical Communication—Fa 3 hours**

Students will learn to design and produce various technical documents and communication solutions for targeted audiences while exploring the technical communication profession.

**TPC-3170 2 hours**

**The Technical Communicator 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.

**TPC-3210 Technical Editing—Sp 2 hours**

Students will learn to develop style guides and edit technical documents or communication using conventional and electronic methods to ensure consistent grammar, style, visual design, and technical accuracy for end-users in targeted audiences.

**TPC-3250 Design of Manuals—Sp 3 hours**

Students will learn to plan, design, and write user manuals or documentation through systematic user analysis, task identification, effective writing, and efficient visual design elements.

**TPC-3290 Proofreading—Su 2 hours**

Students will learn to proofread using the techniques that professional proofreaders have found most practical and effective.

**TPC-4010 Designing Technical Reports—Fa 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.

**TPC-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)

**TPC-4050 Designing Information For The Web—Fa 3 hours**

Students will learn how to design and manage information on the World Wide Web. *Prerequisites:* TPC-3010 *Style for Technical Communicators*; TPC-3100 *Designing Visual Communication*.

**TPC-4090 Designing Online Information—Sp 3 hours**

Students will learn to design and develop online help systems. *Prerequisites:* TPC-3130 *Technical Communication*; TPC-3250 *Design of Manuals*.

**TPC-4130 Instructional Design—Sp 3 hours**

Teaches technical communicators how to employ technology and learning theory in developing adult training courses.

**TPC-4160 1-10 hours**

**Technical and Professional Communication Internship—Sp**

Students will participate in a work-study program approved and administered by the department in which advanced technical and professional communication students receive a variety of job-related experiences in a communication environment.

*Prerequisite:* permission of instructor.

**TPC-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 ever-changing nature of technical communication. Possible topics include project management, professional presentations, research methods, ethics in TPC, or other topics presented by faculty or requested by students. *Prerequisites:* TPC-3130 *Technical Communication*; TPC-3010 *Style for Technical Communicators*. Capstone course.

**TPC-4230 1-3 hours**

**Independent Study in Tech. and Prof. Communication—**

Fa,Sp,Su

Independent study for junior and senior-level TPC majors with special interests and demonstrated ability.

**Foreign Language**

*Arabic*

**ARBC-1510 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.*

*French*

**FREN-1910, 1920 Elementary French I & II 4 hours/sem**

Development of basic skills in reading, writing, speaking, and listening in French, along with an introduction to French culture.

*German*

**GER-1810, 1820 Elementary German I & II 4 hours/sem**

Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

**GER-2810, 2820 Intermediate German I & II 4/3 hours/sem**

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. *Prerequisite:* GER-1820 *Intermediate German or equivalent*.

**GER-3800 Directed Readings in German—Sp 1-3 hours**

Topic chosen by the student and professor, based upon need and interests. *Prerequisite:* GER-2820 *Intermediate German or equivalent*.

**GER-3810 German Conversation—Fa 3 hours**

Oral practice in German through speeches and oral reports along with a review of pronunciation. Designed to improve both day-to-day communication and academic communication. *Prerequisite:* GER-2820 *Intermediate German or equivalent*.

**GER-3820 Germanic History and Culture—Fa 3 hours**

Topic chosen by the student and professor, based upon need and interests. *Prerequisite:* GER-2820 *Intermediate German or equivalent*.

**GER-3830 Survey of German Literature—Sp 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*.



# Language and Literature

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Spanish

**SPAN-1710, 1720** 4 hours/sem

**Elementary Spanish I & II**—Fa,Sp,Su

Development of basic skills in reading, writing, speaking, and listening in Spanish in order to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures.

**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 & II**—Fa,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-3350** 2 hours

**Elementary Education for Foreign Language Teachers**—Sp

An introduction to the teaching of reading, writing, and literacy development as developmental skills for the elementary age learner. Knowledge of elementary school curriculum with an emphasis on using the teaching of foreign language to reinforce the content of the elementary school curriculum. Emphasis on the use of children's literature as a means of teaching foreign language and culture to elementary students. The student will have knowledge of Ohio's model competency-based program and its four stages of language development to guide school foreign language programs. *Open to Multi-age Spanish Education Majors only. Credit/No Credit (odd years)*

**SPAN-3600 Clinical Teaching in Spanish**—Fa,Sp, Su 0-2 hours

A practical experience in which a student is assigned to assist a classroom teacher in preparation for classes, grading, and tutoring students. The student is expected to participate in 30 clock hours for each hour of credit divided among early childhood (20 hours), middle childhood (20 hours), and adolescent/young adult (20 hours) contexts. *Prerequisite: admission to the Teacher Education Program.*

**SPAN-3610 Spanish Composition**—Fa 3 hours

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 basic concepts and vocabulary relating to literary theory through the study and analysis of representative works in Hispanic poetry, drama, and narrative, with emphasis on contemporary authors. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor.*

**SPAN-3660 Spanish For Professionals**—Sp 3 hours

Development of practical Spanish vocabulary and conversational skills related to careers in criminal justice, social work, and health care professions. *Prerequisite: SPAN-2720 Intermediate Spanish or permission of instructor. (odd years)*

**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. (odd years)

**SPAN-3680 Understanding Hispanic Cultures**—Sp 3 hours

Analysis of historical and contemporary issues that have shaped the Hispanic cultures in the U.S. Discussion of similarities and differences between Anglo and Latino world-views. 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-3700** 2 hours

**Methods of Teaching Foreign Language**—Fa

Examination of the purposes and objectives along with the methods and curricular models used in the K-12 foreign language classroom. This course addresses the theories of first and second language acquisition, as well as topics such as the relationship of foreign language learning to other content areas. The student is given information regarding opportunities in planning lessons with appropriate materials, sequencing, and execution of learning activities. Evaluations of student learning, student behavior, and self-evaluation as integral parts of successful teaching are also stressed. The student will also gain insight into the importance of understanding one's own language and culture as a means to understanding the language and culture of the target peoples. *Open to Multi-age Spanish Education majors only.*

**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 Topics in Hispanic 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; instructor's permission. (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 19<sup>th</sup> 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 19<sup>th</sup> 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-2720 Intermediate Spanish. (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 instructor's permission.* (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-4680 Advanced Conversation and Composition; permission of instructor.* (even years)

**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)

**Linguistics**

**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.

**LING-3090 Sociolinguistics–Sp 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. (even years)

**LING-3600 1 hour**

**Clinical Teaching of English as a Second Language–**

Fa,Sp, Su

A practical experience in assisting an ESL classroom teacher in a K-12 ESL program. Under the supervision of a qualified ESL teacher, the student will observe and participate in a formal classroom setting. During this experience, the student will be provided various opportunities to aid the classroom teacher in the development and execution of activities and assessments and to practice teach on a limited basis. Ongoing during this experience, the student will analyze, evaluate, reflect on, and describe his/her field experience. The student is expected to participate in 30 clock hours. Open only to TESOL endorsement teacher candidates.

*Prerequisite: LING-3700 Methods of Teaching Foreign Language.* Credit/No Credit

**LING-3610 Practicum–Fa,Sp,Su 2 hours**

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 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. Ongoing during this experience, the student will analyze, evaluate, reflect on, and describe his/her field experience. *Prerequisite: LING-3700 Methods of Teaching Foreign Language.* Credit/No Credit (Fee: \$45)

**LING-3700 2 hours**

**Methods of Teaching Foreign Language–Fa**

Examination of the purposes and objectives along with the methods used in the K-12 foreign language classroom instruction. The student studies the effect of cognitive, affective, and socio-cultural variables on second (new) language acquisition. The student is given the opportunity to establish goals and objectives and design curricula that reflect Ohio's grade-level learning outcomes in content areas, as well as to develop strategies that promote language-based English learning for K-12 grade-level students. Open to TESOL endorsement teacher candidates and TESOL minors only.

**LING-3710 2 hours**

**TESOL Practicum for Non-Education Majors–Fa,Sp,Su**

Practice teaching of ESL under general supervision of master teacher for non-education majors who are completing TESOL minor requirements. May be satisfied by a satisfactory completion of LING-3600 and LING-3610. *Prerequisite: LING-3700 Methods of Teaching Foreign Language.* Credit/No Credit. (Fee: \$45)



Professor Sandi Harner teaches a technical and professional writing class.

## Mission Statement

The purpose of the Cedarville University Department of Music and Art is to help develop an appreciation and understanding of the musical and visual arts consistent with a biblical worldview. The department seeks to help students gain an understanding of the responsibility of stewardship, service, and worship that is placed upon

those to whom God has given musical and artistic talents.

Students completing programs in music and art will be able to:

1. Demonstrate an understanding of technical skills necessary for the solo performance of music and the individual creation of art.
2. Articulate a biblical philosophy of fine and performing arts which reveals an understanding of the integration of faith and learning.
3. Demonstrate awareness of historical as well as new styles of music and art.
4. Manifest attitudes necessary to guide others toward an increased understanding of the arts.
5. Participate in performances or presentations that contribute to the artistic cultures of the University and the community.

The music programs of study are accredited by the National Association of Schools of Music (N.A.S.M.).

## Personal Requirements

### Auditions

Applicants who wish to major in music should follow the standard procedures for admission. Satisfactory completion of an audition is required for approval as a music major.

Students should contact the department of music to obtain requirements and to schedule an audition.

### Scholarships

Scholarship assistance is available to music 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 the Cedarville University Financial Aid Office.

### Music Theory Exams

All incoming students are required to pass the Music Theory Competency Exam. This test assures that students have the minimum knowledge necessary for college-level music theory courses. The exam is scheduled during Getting Started Week activities.

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 for additional information regarding this test.

### Portfolio

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

### Department Requirements

To graduate with a major from the department of music and art, 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.

## Graphic Design and Studio Art Requirements

### Freshman Review

All entering freshmen are admitted into the graphic design and studio art majors on a conditional basis. After the second semester of study, freshmen are evaluated by the graphic design and studio art 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 field. Students who do not show satisfactory progress and/or talent will be advised to consider other majors unless they show significant improvement.

### Sophomore Portfolio Review

At the end of the second semester of the sophomore year, graphic design and studio art majors are required to apply to the department for upper-divisional standing. The student is required to present a portfolio representing every area of his or her work in graphic design and/or studio art courses at the University. The portfolio should include original two-dimensional work and a CD of images of three-dimensional work. The graphic design and studio art faculty will evaluate the student on the basis of academic progress, grade averages in major courses, and the portfolio that is submitted. Students who do not pass their sophomore review will not be allowed to continue in the major.

### Transfer Review

All students who wish to transfer from another college or university and enroll at Cedarville University as either a graphic design or a studio art major on the junior or senior level must submit the same material requested for the sophomore portfolio review. The graphic design and studio art faculty will review this material before acceptance into the program is granted.



## Music Requirements

### 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.

### Private Lessons

Private Lessons are open to all music majors and minors with curricular need. Students are expected to take private lessons on their major instrument for each semester they are enrolled. Exceptions to this include students who are student teaching and other circumstances as deemed appropriate by the chairperson.

### 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% of the final grade in private lessons for the semester. For performance majors, the jury counts for 33% 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 Check

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.

### Technology Proficiency

All music majors are expected to meet proficiency requirements for technology as established by the department. This requirement can be met by successfully passing a technology proficiency test or by passing THMU-1500 Introduction to Music Technology.

### Ensemble Participation

Music majors are expected to participate in at least one ensemble every semester they are enrolled. Once the credit requirements for their majors are fulfilled, they may enroll for 0 credit.

### 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 consecutive 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: \$50; practice room fee per semester: \$100 (each hour of lesson credit). Classes that involve labs or university-provided student equipment may also have similar fees.

## Programs of Study

The department of music and art offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- Music
- Graphic Design
- Studio Art

### Bachelor of Music (B.M.) in:

- Church Music Ministries
- Composition
- Keyboard Pedagogy
- Performance

### Bachelor of Music Education (B.M.E.) in:

- Choral
- Instrumental

### Minors in:

- Studio Art
- Church Music Ministries
- Graphic Design
- Music

## Technical Resources

The department of music and art 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. Graphic design students render and complete class assignments in a fully-equipped Macintosh computer lab using industry-standard programs.



## Co-Curricular 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 and other music students interested in teaching may participate in the campus chapter of the Music Educators National Conference. This award-winning chapter provides many social, professional, and ministry opportunities for its members.

## Career Opportunities

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

- Graphic artist
- Music supervisor
- Music therapist
- Performer
- Recording studio technician
- Retail music salesperson
- School teacher (elementary and secondary Christian or public schools)
- Studio teacher
- College professor
- Community arts manager
- Composer/arranger
- Instrument salesperson
- Minister of music
- Music editor
- Music librarian
- Studio artist
- Art preparator
- Illustrator

## Faculty

**Steven Winteregg**, *Chairman*: Professor of Music. *Education*: B.M.E., University of Cincinnati College-Conservatory of Music, 1974; M.M., Wright State University, 1979; D.M.A., The Ohio State University, 1987. At Cedarville since 2004.

**Connie Anderson**, Assistant Professor of Music. *Education*: B.A., Cedarville University, 1973; M.M., Wright State University, 1994. At Cedarville since 1999.

**Lyle Anderson**, 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.

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

**Charles Clevenger**, Professor 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.

**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.

**Michael DiCuirci**, Professor 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.

**Laura Ferranti**, Assistant Professor of Music. *Education*: B.M.E., Louisiana State University, 2001; M.M., Louisiana State University, 2004. At Cedarville since 2006.





**Taylor Ferranti**, Assistant Professor of Vocal Music. *Education:* B.M., Crane School of Music at SUNY Potsdam, 1996; M.M., Boston Conservatory, 1999; D.M.A., Louisiana State University, 2004; voice student of Stephen F. Austin and Cornelius L. Reid. At Cedarville since 2004.

**Timothy Frame**, Instructor of Graphic Design. *Education:* B.A., Morehead State University. At Cedarville since 2003.

**Aaron Gosser**, Instructor of Graphic Design. *Education:* B.A., Goshen College, 2002. At Cedarville since 2005.

**Jun Kim**, Assistant Professor of Music. *Education:* B.M., Peabody Institute of Music, 1997; M.M., Indiana University, 1998; Artist Diploma in Violin Performance, University of Cincinnati College-Conservatory of Music, 2003. At Cedarville since 2006.

**David Matson**, Professor 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.

**John Mortensen**, Associate Professor of Piano. *Education:* B.M.A., University of Michigan, 1988; piano student of Anne Koscielnny and Raymond Hanson; M.M., University of Maryland, 1990; D.M.A., University of Maryland, 1994. At Cedarville since 1995.

**Roger O'Neel**, Assistant Professor of Church Music. *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.

**Charles Pagnard**, Professor 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.

**Beth Porter**, 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.

**Mark Spencer**, Associate Professor of Vocal 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.

**Daniel Sternsher**, Assistant Professor of Graphic Design. *Education:* B.S., Bowling Green State University, 1989; M.Ed., Bowling Green State University-College of Technology, 1998. At Cedarville since 2001.

### Adjunct Faculty

- Lori Akins, flute
- Sheridan Currie, viola
- Jackie Davis, harp
- Mary Davis-Fetherston, cello
- Michael DiCuirci, Jr., tuba
- Kerry Estes, graphic design
- Trudy Faber, organ
- David Ferrara, guitar methods
- Todd Fitter, horn
- Bruce Grimes, sculpture, ceramics
- Lisa Grove, oboe
- Chet Jenkins, saxophone
- Michael LaMattina, percussion
- Andrew Millat, trombone
- Lawrence Pitzer, guitar
- David Sachs, piano



*Dr. Steven Winteregg, accomplished composer and Cedarville University's Music and Art Department Chair, teaches juniors and seniors an advanced composition class.*

## Church Music Ministries

The church music ministries major prepares the music student for graduate studies or for ministry of music in churches that embrace evangelical traditions. Upon completing this course of study, students should be able to:

1. Demonstrate an understanding of and appreciation for the development of western civilization as it relates to life in general and to the music of the church.
2. Perform with expertise, making application to the evangelical traditions when appropriate.
3. Evaluate the musical and spiritual needs of a congregation and develop a music ministry program to meet those needs, integrating music into the total life, mission, and purpose of the local evangelical church in its individual cultural setting.
4. Demonstrate an understanding of and ability for developing, organizing, and administering a church music teaching and training program for evangelical churches.

Students pursuing this major must complete the general education core.

The following requirements involve 75 semester hours:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I.....	0-2
CLMU-1820 Piano Class II.....	0-2
THMU-2140 Functional Keyboard.....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills.....	0-2
THMU-1500 Introduction to Music Technology.....	0-1
<i>Music Foundation and Skills</i> .....	31-32
CDMU-2600 Introduction to Conducting.....	2
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance.....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV.....	12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV.....	8
THMU-4130 Orchestration.....	2
THMU-4140 Choral Arranging.....	2
<i>Select one of the following</i> .....	2
CDMU-3610 Choral Conducting.....	2
CDMU-3620 Instrumental Conducting.....	2
<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature.....	3
HLMU-3310, 3320 Music History I, II.....	6
<i>Music Performance</i> .....	11
PFMU-3100-3980 Large Ensemble.....	2
PLMU-1000-4800 Private Lessons.....	8
*PLMU-4900 Senior Recital.....	1
<i>Church Music</i> .....	24
CHMU-2060 Music and the Arts in Worship.....	3
CHMU-2100 Church Music Seminar (every semester).....	0
CHMU-2200 Field Experience.....	1
CHMU-2600 Music of the Church.....	3
CHMU-3630 Administering Church Music I.....	3
CHMU-3640 Administering Church Music II.....	3
CHMU-4900 Church Music Internship.....	9
THMU-3500 Advanced Music Technology.....	2

\*Capstone Course

### Church Music Ministries Major Curriculum Summary

General Education Requirements.....	49-57
Church Music Ministries Major Requirements.....	75-84
Electives.....	0-4
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Church Music Ministries

<i>First year:</i>	
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHMU-2100 Church Music Seminar (every semester).....	0
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>
<i>Second year:</i>	
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
CHMU-2100 Church Music Seminar (every semester).....	0
CHMU-2060 Music and the Arts in Worship.....	3
CHMU-2200 Field Experience.....	1
CHMU-3630 Administering Church Music I.....	3
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
HLMU-2310 Introduction to Music Literature.....	3
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total.....</b>	<b>32</b>
<i>Third year:</i>	
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CDMU-3620 Choral Conducting.....	2
(or CDMU-3610 Instrumental Conducting.....)	2
CHMU-2100 Church Music Seminar (every semester).....	0
CHMU-2600 Music of the Church.....	3
CHMU-3640 Administering Church Music II.....	3
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1000 Foundations of Social Science.....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
THMU-3500 Advanced Music Technology.....	2
THMU-4140 Choral Arranging.....	2
Biology Elective.....	3.5
History Elective.....	3
Literature Elective.....	3
<b>Total.....</b>	<b>36.5</b>
<i>Fourth year:</i>	
CHMU-2100 Church Music Seminar (every semester).....	0
CHMU-4900 Church Music Internship.....	9
GMUS-1030 Recital and Program Attendance (both semesters).....	0
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
PLMU-4900 Senior Recital.....	1
THMU-4130 Orchestration.....	2
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
Elective.....	4
<b>Total.....</b>	<b>27.5</b>

### Music

The **Bachelor of Arts in music** is designed for students with a strong interest in music and other academic areas. It is ideal for musically-talented students who plan to go to graduate programs that will accept a bachelor's degree in any academic major. Examples include law, international studies, and music therapy.

The general studies credits within this major allow students to add specialized courses from any other area.

Course requirements involve 56 semester hours including:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I .....	0-2
CLMU-1820 Piano Class II .....	0-2
THMU-2140 Functional Keyboard .....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills.....	0-2
THMU-1500 Introduction to Music Technology.....	0-1
<i>Music Foundation and Skills</i> .....	16
GMUS-1000 Music Philosophy and Aesthetics .....	1
GMUS-1030 Recital and Program Attendance.....	0
THMU-1210, 1220, 2210 Music Theory I, II, III .....	9
THMU-1310, 1320, 2310 Aural Skills I, II, III .....	6
<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature.....	3
HLMU-3310, 3320 Music History I, II.....	6
<i>Music Performance</i> .....	11
PFMU-3100-3980 Large Ensemble.....	2
PLMU-1000-4800 Private Lessons.....	6
PLMU-4910 Senior Seminar.....	2
*PLMU-4920 Senior Project .....	1
*Capstone Course	
<i>Music Electives</i> .....	20
<b>Music Major Curriculum Summary</b>	
General Education Requirements .....	49-57
Music Major Requirements.....	56-64
Electives .....	7-23
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Music students receive quality instruction from experienced and dedicated professors such as Dr. John Mortensen, associate professor of piano.

### Suggested Four-Year Curriculum for a Major in Music

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PFMU-XXXX Ensemble Performance .....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
HLMU-2310 Introduction to Music Literature .....	3
PFMU-XXXX Ensemble Performance .....	0
PLMU-XXXX Private Lessons.....	2
THMU-2210 Music Theory III.....	3
THMU-2310 Aural Skills III.....	2
Electives.....	16
<b>Total.....</b>	<b>32</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
GMUS-XXXX Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture .....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance .....	0
PLMU-XXXX Private Lessons.....	2
Biology Elective.....	3.5
History Elective .....	3
Literature Elective .....	3
Electives.....	8
<b>Total.....</b>	<b>32.5</b>

*Fourth year:*

GMUS-1030 Recital and Program Attendance (both semesters).....	0
PFMU-XXXX Ensemble Performance .....	0
PLMU-4910 Senior Seminar (both semesters).....	2
PLMU-4920 Senior Project .....	1
Physical Science Elective .....	3.5
Quantitative Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives.....	19
<b>Total.....</b>	<b>31.5</b>

## Composition

The **composition major** prepares the student for a career that involves composing, arranging, and editing music. This program also lays the foundation for graduate study in theory/composition.

Students pursuing this major must complete the general education core.

The following requirements involve 74 semester hours:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I .....	0-2
CLMU-1820 Piano Class II .....	0-2
THMU-2140 Functional Keyboard .....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills ....	0-2
THMU-1500 Introduction to Music Technology.....	0-1

<i>Music Foundation and Skills</i> .....	27
CDMU-2600 Introduction to Conducting.....	2
GMUS-1000 Music Philosophy and Aesthetics .....	1
GMUS-1030 Recital and Program Attendance.....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music .....	2)
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV .....	12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV .....	8
<i>Select one of the following</i> .....	2
CDMU-3610 Choral Conducting .....	2
CDMU-3620 Instrumental Conducting.....	2

<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature .....	3
HLMU-3310, 3320 Music History I, II.....	6

<i>Music Performance</i> .....	14
PFMU-3100-3980 Large Ensemble.....	4
PLMU-1000-4800 Private Lessons.....	8
PLMU-3900 Junior Recital.....	1
*PLMU-4900 Senior Recital.....	1

<i>Music Composition</i> .....	24
CLMU-2800 Introduction to Music Composition .....	2
CLMU-2850 Composition Seminar.....	0
CLMU-2860 Composition Portfolio .....	0
PLMU-2800, 3800, 4800 Lessons in Music Composition.....	10
THMU-3500 Advanced Music Technology.....	2
THMU-4100 Counterpoint .....	3
THMU-4110 Form and Analysis.....	3
THMU-4130 Orchestration .....	2
THMU-4140 Choral Arranging.....	2

\*Capstone Course

### Composition Major Curriculum Summary

General Education Requirements .....	49-57
Composition Major Requirements .....	74-82
Electives .....	0-5
<b>Total (minimum, not including proficiency) .....</b>	<b>128-135</b>

### Suggested Four-Year Curriculum for a Major in Composition

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CLMU-2850 Composition Seminar .....	0
CLMU-2800 Introduction to Music Composition .....	2
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
PFMU-XXXX Ensemble Performance .....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>34</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
CDMU-2600 Introduction to Conducting .....	2
CLMU-2850 Composition Seminar .....	0
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
HLMU-2100 Jazz History: Music of the Multi-Culture .....	2
(or HLMU-3400 Global Music .....	2)
HLMU-2310 Introduction to Music Literature .....	3
PFMU-XXXX Ensemble Performance .....	2
PLMU-2800 Private Composition .....	2
PLMU-XXXX Private Lessons.....	4
THMU-2210, 2220 Music Theory III, IV .....	6
THMU-2310, 2320 Aural Skills III, IV .....	4
THMU-3500 Adv. Music Technology .....	2
<b>Total.....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
CDMU-3620 Instrumental Conducting .....	2
(or CDMU-3610 Choral Conducting .....	2)
CLMU-2850 Composition Seminar .....	0
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
GSS-1100 Politics and American Culture .....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance .....	0
PLMU-XXXX Private Lessons.....	2
PLMU-3800 Private Composition.....	4
PLMU-3900 Junior Recital .....	1
Biology Elective.....	3.5
History Elective .....	3
Literature Elective .....	3
<b>Total.....</b>	<b>31.5</b>

#### Fourth year:

CLMU-2850 Composition Seminar .....	0
CLMU-2860 Composition Portfolio .....	0
GMUS-1030 Recital and Program Attendance (both semesters) .....	0
PFMU-XXXX Ensemble Performance .....	0
PLMU-4800 Private Composition.....	4
PLMU-4900 Senior Recital .....	1
THMU-4100 Counterpoint.....	3
THMU-4110 Form and Analysis.....	3
THMU-4130 Orchestration.....	2
THMU-4140 Choral Arranging .....	2
Physical Science Elective .....	3.5
Quantitative Elective .....	3
Social Science/Global Awareness Elective.....	3
Elective .....	5
<b>Total.....</b>	<b>29.5</b>

The complete description of the general education requirements is found on page 18

## Keyboard Pedagogy

The **keyboard pedagogy major** prepares students to teach piano. Professional certification may be obtained by completing these course requirements and applying for certification.

Students pursuing this major must complete the general education core.

The following requirements involve 75 semester hours:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I.....	0-2
CLMU-1820 Piano Class II.....	0-2
THMU-2140 Functional Keyboard.....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills.....	0-2
THMU-1500 Introduction to Music Technology.....	0-1
<i>Music Foundation and Skills</i> .....	25
CDMU-2600 Introduction to Conducting.....	2
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance.....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
or HLMU-3400 Global Music.....	2
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV.....	12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV.....	8
<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature.....	3
HLMU-3310, 3320 Music History I, II.....	6
<i>Music Performance</i> .....	19
PFMU-3100-3980 Large Ensemble.....	4
PLMU-1000-4800 Private Lessons.....	14
*PLMU-4900 Senior Recital.....	1
<i>Keyboard Pedagogy</i> .....	22
KPMU-2010, 2020 Keyboard Pedagogy I, II.....	6
KPMU-3110, 3120, 4110, 4120 Directed Teaching I, II, III, IV ..	4
KPMU-3150, 3160, 4150, 4160 Keyboard Pedagogy Seminar I, II, III, IV.....	8
THMU-3500 Advanced Music Technology.....	2
Approved Music Elective.....	2

\*Capstone Course

### Keyboard Pedagogy Major Curriculum Summary

General Education Requirements.....	49-57
Keyboard Pedagogy Major Requirements.....	75-83
Elective.....	0-4
<b>Total (minimum, not including proficiency).....</b>	<b>128-136</b>

### Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>34</b>

*Second year:*

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
HLMU-2310 Introduction to Music Literature.....	3
KPMU-2010, 2020 Keyboard Pedagogy I, II.....	6
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	4
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total.....</b>	<b>33</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I, II.....	6
KPMU-3110, 3120 Directed Teaching I, II.....	2
KPMU-3150, 3160 Keyboard Pedagogy Seminar I, II.....	4
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	4
Biology Elective.....	3.5
History Elective.....	3
Literature Elective.....	3
<b>Total.....</b>	<b>32.5</b>

*Fourth year:*

GMUS-1030 Recital and Program Attendance (both semesters).....	0
KPMU-4110, 4120 Directed Teaching III, IV.....	2
KPMU-4150, 4160 Keyboard Pedagogy Seminar III, IV.....	4
PFMU-XXXX Ensemble Performance.....	2
PLMU-4900 Senior Recital.....	1
PLMU-XXXX Private Lessons.....	2
THMU-3500 Advanced Music Technology.....	2
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
Music Elective.....	2
Elective.....	4
<b>Total.....</b>	<b>28.5</b>

# Music and Art

School of Humanities, Fine Arts, and Bible

A complete description of the general education requirements is found on page 18

## Performance

The **performance major** prepares students for graduate study and careers in music performance. Performance majors must also complete an instrumental, piano, or vocal concentration.

The following requirements involve 75 semester hours:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I.....	0-2
CLMU-1820 Piano Class II.....	0-2
THMU-2140 Functional Keyboard.....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills.....	0-2
THMU-1500 Introduction to Music Technology.....	0-1
<i>Music Foundation and Skills</i> .....	30
CDMU-2600 Introduction to Conducting.....	2
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance.....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV.....	12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV.....	8
THMU-4110 Form and Analysis.....	3
<i>Select one of the following:</i>	
CDMU-3610 Choral Conducting.....	2
CDMU-3620 Instrumental Conducting.....	2
<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature.....	3
HLMU-3310, 3320 Music History I, II.....	6
<i>Music Performance</i> .....	22
CLMU-2750 Performance Seminar.....	0
CLMU-2760 Performance Portfolio.....	0
PFMU-3100-3980 Large Ensemble.....	6
PLMU-1000-4800 Private Lessons (in major instrument).....	14
PLMU-3900 Junior Recital.....	1
*PLMU-4900 Senior Recital.....	1
<i>Choose one concentration from the following</i> .....	14
<i>Instrumental Concentration</i> .....	14
EDMU-3750 Instrumental Pedagogy.....	2
PFMU-3650 Chamber Ensemble (2 x 1 credit).....	2
THMU-4130 Orchestration.....	2
<i>Select one of the following</i> .....	1
CLMU-2210 Brass Literature.....	1
CLMU-2220 Percussion Literature.....	1
CLMU-2230 String Literature.....	1
CLMU-2240 Woodwind Literature.....	1
Approved Electives.....	7
<i>Piano Concentration</i> .....	14
CLMU-2300 Keyboard Literature.....	2
CLMU-2310 Collaborative Piano (6 x 1 credit).....	6
<i>Select one of the following</i> .....	3
KPMU-2010 Keyboard Pedagogy I.....	3
KPMU-2020 Keyboard Pedagogy II.....	3
Approved Electives.....	3
<i>Vocal Concentration</i> .....	14
CLMU-1170, 1180 Diction for Singers I, II.....	4
CLMU-2110 Song Literature.....	2
CLMU-2120 Oratorio Literature.....	2
CLMU-2130 Opera Literature.....	2
PFMU-3850 Opera Ensemble (2 x 1 credit).....	2
EDMU-3730 Vocal Pedagogy.....	2

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.)

\*Capstone Course

### Performance Major Curriculum Summary

General Education Requirements.....	49-57
Performance Major Requirements.....	75-84
Elective.....	0-4
<b>Total (minimum, not including proficiency)</b> .....	<b>128-136</b>

### Suggested Four-Year Curriculum for a Major in Vocal Performance

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CLMU-2750 Performance Seminar.....	0
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total</b> .....	<b>32</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
CLMU-1170, 1180 Diction for Singers I, II.....	4
CLMU-2750 Performance Seminar.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
HLMU-2310 Introduction to Music Literature.....	3
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total</b> .....	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CDMU-3620 Instrumental Conducting.....	2
(or CDMU-3610 Choral Conducting.....)	2
CLMU-2110 Song Literature.....	2
CLMU-2750 Performance Seminar.....	0
EDMU-3730 Vocal Pedagogy.....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	4
PFMU-3850 Opera Ensemble.....	1
PLMU-3900 Junior Recital.....	1
Biology Elective.....	3.5
History Elective.....	3
Literature Elective.....	3
<b>Total</b> .....	<b>34.5</b>

#### Fourth year:

CLMU-2120 Oratorio Literature.....	2
CLMU-2130 Opera Literature.....	2
PFMU-3850 Opera Ensemble.....	1
CLMU-2750 Performance Seminar.....	0
CLMU-2760 Performance Portfolio.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
PLMU-4900 Senior Recital.....	1
THMU-4110 Form and Analysis.....	3
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
Elective.....	4
<b>Total</b> .....	<b>28.5</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Instrumental Performance

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CLMU-2750 Performance Seminar.....	0
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

*Second year:*

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
CLMU-XXXX Instrumental Literature Elective.....	1
CLMU-2750 Performance Seminar.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
HLMU-2310 Introduction to Music Literature.....	3
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total.....</b>	<b>30</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CDMU-3620 Instrumental Conducting.....	2
(or CDMU-3610 Choral Conducting.....)	2
CLMU-2750 Performance Seminar.....	0
EDMU-3750 Instrumental Pedagogy.....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I, II.....	6
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
Literature Elective.....	3
<b>Total.....</b>	<b>33.5</b>

*Fourth year:*

CLMU-2750 Performance Seminar.....	0
CLMU-2760 Performance Portfolio.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
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
Music Elective.....	7
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
Elective.....	4
<b>Total.....</b>	<b>32.5</b>

### Suggested Four-Year Curriculum for a Major in Piano Performance

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CLMU-2750 Performance Seminar.....	0
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

*Second year:*

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
CLMU-2310 Collaborative Piano.....	2
CLMU-2750 Performance Seminar.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HLMU-2100 Jazz History: Music of the Multi-Culture.....	2
(or HLMU-3400 Global Music.....)	2
HLMU-2310 Introduction to Music Literature.....	3
KPMU-2010 or 2020 Keyboard Pedagogy I or II.....	3
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total.....</b>	<b>34</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CDMU-3620 Instrumental Conducting.....	2
(or CDMU-3610 Choral Conducting.....)	2
CLMU-2300 Keyboard Literature.....	2
CLMU-2310 Collaborative Piano.....	2
CLMU-2750 Performance Seminar.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	4
PLMU-3900 Junior Recital.....	1
Biology Elective.....	3.5
History Elective.....	3
Literature Elective.....	3
<b>Total.....</b>	<b>33.5</b>

*Fourth year:*

CLMU-2310 Collaborative Piano.....	2
CLMU-2750 Performance Seminar.....	0
CLMU-2760 Performance Portfolio.....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	4
PLMU-4900 Senior Recital.....	1
THMU-4110 Form and Analysis.....	3
Music Elective.....	3
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science/Global Awareness Elective.....	3
Elective.....	4
<b>Total.....</b>	<b>28.5</b>

## Teacher Education Licensure Program Bachelor of Music Education

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. For information about teaching in Ohio and other states, see the department of education section of this catalog.

The following requirements involve 91-99 (choral track) or 92-100 (instrumental track) semester hours:

<i>Proficiencies</i> .....	0-8
<i>Piano</i> .....	0-5
CLMU-1810 Piano Class I.....	0-2
CLMU-1820 Piano Class II.....	0-2
THMU-2140 Functional Keyboard.....	0-1
THMU-1010 Introduction to Music Theory and Aural Skills.....	0-2
THMU-1500 Introduction to Music Technology.....	0-1
<i>Music Foundation and Skills</i> .....	27-28
CDMU-2600 Introduction to Conducting.....	2
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-2910 Sophomore Review-Multi-Age Music Ed.....	0
HLMU-3400 Global Music.....	2
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV.....	12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV.....	8
<i>Choral majors also add:</i>	
CDMU-3610 Choral Conducting.....	2
<i>Instrumental majors also add:</i>	
CDMU-3620 Instrumental Conducting.....	2
CLMU-1860 Voice Class.....	1
<i>Music Contexts</i> .....	9
HLMU-2310 Introduction to Music Literature.....	3
HLMU-3310, 3320 Music History I, II.....	6
<i>Music Performance</i> .....	11
PFMU-3100-3980 Large Ensemble.....	2
PLMU-1000-4800 Private Lessons.....	8
PLMU-4900 Senior Recital.....	1
<i>Music Education</i> .....	15
GMUS-1030 Recital and Program Attendance.....	0
EDMU-1000 MENC.....	0
EDMU-3710 Music for Early Childhood.....	3
EDMU-3720 Music for Adolescent/Young Adult.....	3
<i>Choral majors also add:</i>	
CLMU-1170 or 1180 Diction for Singers I or II.....	2
CDMU-3630 Choral Methods.....	2
EDMU-2730 Wind and Percussion Methods.....	2
EDMU-2900 Guitar Methods.....	1
EDMU-3730 Vocal Pedagogy.....	2
<i>Instrumental majors also add:</i>	
EDMU-3910 Instrumental Administration.....	3
<i>Three of the following</i> .....	6
EDMU-2870 Brass Methods.....	2
EDMU-2910 Woodwind Methods.....	2
EDMU-2930 String Methods.....	2
EDMU-2950 Percussion Methods.....	2

<i>Teacher Education</i> .....	29
EDSE-3900 Music Ed. Clinical.....	2
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4000 Reading in the Content Area: Multi-Age.....	3
EDUC-4500 Philosophy of Education.....	2
*EDUC-4900 Student Teaching and Seminar-Multi-Age.....	10

\*Capstone Course

### Music Education (Multi-Age)–Choral Major Curriculum Summary

General Education Requirements.....	49-57
Music Education-Choral Major Requirements.....	91-99
<b>Total (minimum, not including proficiency).....</b>	<b>140-156</b>

### Music Education (Multi-Age)–Instrumental Major Curriculum Summary

General Education Requirements.....	49-57
Music Education-Instrumental Major Requirements.....	92-100
<b>Total (minimum, not including proficiency).....</b>	<b>141-157</b>



Students with musical abilities have many opportunities to join various instrumental and vocal performance groups at Cedarville.



A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Music Education Multi-Age

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
EDMU-1000 MENC (both semesters).....	0
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition.....	3
GMUS-1000 Music Philosophy and Aesthetics.....	1
GMUS-1030 Recital and Program Attendance (both semesters).....	0
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PFMU-XXXX Ensemble Performance.....	2
PLMU-XXXX Private Lessons.....	2
THMU-1210, 1220 Music Theory I, II.....	6
THMU-1310, 1320 Aural Skills I, II.....	4
Physical Education Activity Elective.....	1

#### Choral Majors Add:

CLMU-1170 or 1180 Diction for Singers I or II.....	2
EDMU-2900 Guitar Methods.....	1
<b>Choral Total</b> .....	<b>36</b>

#### Instrumental Majors Add:

EDMU-XXXX Instrumental Methods Electives.....	4
<b>Instrumental Total</b> .....	<b>37</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CDMU-2600 Introduction to Conducting.....	2
EDUC-2000 Introduction to Teaching.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2100 Technology in the Classroom.....	2
EDUC-2500 Educational Psychology.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDMU-1000 MENC (both semesters).....	0
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GMUS-2910 Sophomore Review, Multi-Age Music CD.....	0
HLMU-3400 Global Music.....	2
HLMU-2310 Introduction to Music Literature.....	3
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
THMU-2210, 2220 Music Theory III, IV.....	6
THMU-2310, 2320 Aural Skills III, IV.....	4
<b>Total</b> .....	<b>37</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
EDMU-1000 MENC (both semesters).....	0
EDMU-3710 Music for Early Childhood.....	3
EDMU-3720 Music for Adolescent/Young Adults.....	3
EDSE-3900 Music Ed. Clinical.....	2
GMUS-1030 Recital and Program Attendance (both semesters).....	0
GSS-1100 Politics and American Culture.....	3
HLMU-3310, 3320 Music History I, II.....	6
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
Biology Elective.....	3.5
History Elective.....	3
Literature Elective.....	3

#### Choral Majors Add:

CDMU-3610 Choral Conducting.....	2
CDMU-3630 Choral Methods.....	2
<b>Choral Total</b> .....	<b>36.5</b>

#### Instrumental Majors Add:

CDMU-3620 Instrumental Conducting.....	2
EDMU-3910 Instrumental Administration.....	3
<b>Instrumental Total</b> .....	<b>37.5</b>

#### Summer:

EDUC-4000 Reading in the Content Area: Multi-Age.....	3
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#### Fourth year:

EDMU-1000 MENC (both semesters).....	0
EDUC-4500 Philosophy of Education.....	2
EDUC-4900 Student Teaching and Seminar: Multi-Age.....	10-12
GMUS-1030 Recital and Program Attendance (both semesters).....	0
PFMU-XXXX Ensemble Performance.....	0
PLMU-XXXX Private Lessons.....	2
PLMU-4900 Senior Recital.....	1
Physical Science Elective.....	3.5
Quantitative Elective.....	3
Social Science Elective.....	3

#### Choral Majors Add:

EDMU-2730 Wind and Percussion Methods.....	2
EDMU-3730 Vocal Pedagogy.....	2
<b>Choral Total</b> .....	<b>28.5-30.5</b>

#### Instrumental Majors Add:

CLMU-1860 Voice Class.....	1
EDMU-XXXX Instrumental Methods Elective.....	2
<b>Instrumental Total</b> .....	<b>27.5-29.5</b>

## Graphic Design

The **B.A. in graphic design** prepares students for a career in visual communication. The artist is generally identified as a graphic designer, visual 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 Web pages. Every industrial, social, educational, service, and governmental organization needs communication items. Employment may be with an organization or business, a design agency, or in a free-lance 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 professional writing, marketing, business management, or electronic media.

The following requirements involve 62-69 semester hours:

<i>Graphic design major core courses</i> .....	<b>54-61</b>
ART-1100 Introduction to Art .....	3
ART-1210 Drawing I .....	3
ART-1220 Drawing II .....	3
ART-1230 Design I .....	3
ART-2220 Design II .....	3
ART-3310 Art History I.....	3
ART-3320 Art History II.....	3
ART-3330 Three-Dimensional Design.....	3
EMTC-2606 Intro to Comp. Animation for Electronic Media.....	3
EMTC-2610 Preproduction Planning for Multimedia .....	2
GDES-1100 History of Graphic Design .....	1
GDES-1220 Digital Image/Photography.....	3
GDES-1150 Digital Image/Illustration .....	3
GDES-2100 Typography .....	3
GDES-3220 Graphic Design I .....	3
GDES-3230 Production Design I.....	3
GDES-4110 Portfolio .....	1
GDES-4220 Graphic Design II .....	3
GDES-4230 Production Design II.....	3
GDES-4900 Graphic Design Internship.....	2-9
<i>Choose from the following ART/EMTC electives</i> .....	<b>8</b>
ART-2250 Creative Photography.....	3
ART-3210 Painting I .....	3
ART-3230 Watercolor .....	2
ART-3410 Ceramics .....	3
ART-4400 20th Century Art .....	2
ART-4990 Independent Study in Art.....	1-3
EMTC-2310 Intro to Photography .....	2
EMTC-3610 Visual Design for Electronic Media .....	3
EMTC-3630 Principles of Computer Animation .....	3

### Graphic Design Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	49
Graphic Design Major Requirements .....	54-61
ART/EMTC Electives.....	8
General Electives .....	11-17
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Graphic Design

#### First year:

ART-1100 Introduction to Art.....	3
ART-1210 Drawing I.....	3
ART-1230 Design I.....	3
BIO-1000 Principles of Biology .....	3.5
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GDES-1100 History of Graphic Design.....	1
GDES-1150 Digital Image/Illustration .....	3
HUM-1400 Introduction to the Humanities.....	3
<b>Total.....</b>	<b>31.5</b>

#### Second year:

ART-2220 Design II.....	3
ART-3330 Three-Dimensional Design .....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
GDES-1220 Digital Image/Photography .....	3
GDES-2100 Typography.....	3
GDES-3230 Production Design I .....	3
GSS-1100 Politics and American Culture .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Literature Elective .....	3
Physical Education Activity Elective.....	1
Social Science Elective.....	3
<b>Total.....</b>	<b>32</b>

#### Third year:

ART-3310 Art History I .....	3
ART-3320 Art History II .....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
EMTC-2610 Preproduction Planning for Multimedia.....	3
EMTC-2606 Intro to Computer Animation for Electronic Media .....	2
GDES-3220 Graphic Design I .....	3
Art Electives .....	3
General Electives.....	6
History Elective .....	3
Quantitative Elective .....	3
<b>Total.....</b>	<b>33</b>

#### Fourth year:

ART-1220 Drawing II.....	3
GDES-4110 Portfolio.....	1
GDES-4220 Graphic Design II.....	3
GDES-4230 Production Design II .....	3
GDES-4900 Graphic Design Internship.....	2-9
Art Electives .....	5
General Electives.....	5-11
Physical Science Elective .....	3.5
<b>Total.....</b>	<b>31.5</b>

A complete description of the general education requirements is found on page 18

**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. 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, including 54 studio art semester hours, and eight art electives.

The following requirements involve 62 semester hours:

<i>Studio art major core courses</i> .....	<b>54</b>
ART-1100 Introduction to Art .....	3
ART-1210 Drawing I .....	3
ART-1220 Drawing II .....	3
ART-1230 Design I .....	3
ART-2220 Design II .....	3
ART-3210 Painting I .....	3
ART-3220 Painting II .....	3
ART-3310 Art History I .....	3
ART-3320 Art History II.....	3
ART-3330 Three-Dimensional Design.....	3
ART-3410 Ceramics .....	3
ART-3510 Introduction to Printmaking.....	3
ART-3610 Sculpture .....	3
ART-3710 Studio I .....	3
ART-4100 Studio II .....	3
ART-4200 Studio III .....	3
ART-4300 Art Exhibition .....	3
ART-4400 20th Century Art .....	3
<i>Choose from the following ART electives</i> .....	<b>8</b>
ART-2250 Creative Photography.....	3
ART-3230 Watercolor .....	2
EMTC-2310 Intro to Photography .....	2
GDES-1100 History of Graphic Design .....	1
GDES-1150 Digital Image/Illustration .....	3
GDES-1220 Digital Image/Photography.....	3
GDES-2100 Typography .....	2
GDES-3220 Graphic Design I .....	3
GDES-4220 Graphic Design II .....	3

**Studio Art Curriculum Summary**

Proficiency Requirements.....	0-5
Other General Education Requirements .....	49-57
Studio Art Major Requirements.....	62
General Electives .....	9-17
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

**Suggested Four-Year Curriculum for a Major in Studio Art**

*First year:*

ART-1100 Introduction to Art.....	3
ART-1210 Drawing I.....	3
ART-1220 Drawing II .....	3
ART-1230 Design I.....	3
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology .....	3.5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
<b>Total.....</b>	<b>31.5</b>

*Second year:*

ART-2220 Design II.....	3
ART-3210 Painting I .....	3
ART-3310 Art History I .....	3
ART-3320 Art History II .....	3
ART-3330 3-D Design.....	3
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
GSS-1100 Politics and American Culture .....	3
Literature Elective .....	3
Physical Education Activity Elective.....	1
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>31</b>

*Third year:*

ART-3410 Ceramics .....	3
ART-3220 Painting II .....	3
ART-3510 Intro to Print Making .....	3
ART-3610 Sculpture .....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
Art Elective .....	3
Electives .....	8
History Elective .....	3
Quantitative Elective .....	3
<b>Total.....</b>	<b>33</b>

*Fourth year:*

ART-4400 20th Century Art .....	3
ART-3750 Studio I .....	3
ART-4100 Studio II .....	3
ART-4300 Studio III .....	3
ART-4300 Art Exhibition .....	3
Art Electives.....	5
Physical Science Elective .....	3.5
Electives.....	9
<b>Total.....</b>	<b>32.5</b>

## Minors

### 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 17-18 semester hours, including 15 hours of art core and 2-3 hours of an art elective.

<i>Art Core</i> .....	15
ART-1100 Introduction to Art .....	3
ART-1210 Drawing I .....	3
ART-2210 Design I .....	3
ART-3310 Art History I .....	3
ART-3320 Art History II .....	3
<i>Elective selected from:</i> .....	2-3
ART-1220 Drawing II .....	3
ART-2220 Design II .....	3
ART-3210 Painting I .....	3
ART-3220 Painting II .....	3
ART-3230 Watercolor .....	2
ART-3410 Ceramics .....	3

### Church Music Minor

The **church music minor** provides students interested in working as church musicians with the basic tools needed to function in the field. Students who minor in church music should begin the program no later than their sophomore year.

Course requirements involve 20 semester hours, including 14 hours of music core and 6 hours of church music courses.

<i>Music Core</i> .....	14
CDMU-2600 Introduction to Conducting.....	2
GMUS-1030 Recital and Program Attendance (2 semesters)...	0
PFMU-3100-3980 Ensemble (at least 2 semesters) .....	0
PLMU-1000-4800 Private Lessons .....	2
*THMU-1210,1220 Music Theory I, II .....	6
*THMU-1310, 1320 Aural Skills I, II .....	4
<i>Church Music Courses</i> .....	6
CHMU-2060 Music and the Arts in Worship .....	3
<i>Select one of the following</i> .....	3
CHMU-2600 Music of the Church .....	3
CHMU-3630 Administering Church Music I .....	3
CHMU-3640 Administering Church Music II .....	3

\*Students in this minor are required to take these classes prior to private lessons.

### 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 course work 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 17-18 semester hours.

<i>Graphic Design Core</i> .....	15
ART-1100 Introduction to Art .....	3
ART-1210 Drawing I .....	3
ART-2210 Design I .....	3
GDES-1150 Digital Image/Photography .....	3
GDES-1220 Digital Image/Illustration .....	3
<i>Electives selected from</i> .....	2-3
EMTC-2310 Photography .....	2
EMTC-2606 Intro to Comp. Animation for Electronic Media ...	2
EMTC-2610 Preproduction Planning .....	3
GDES-1100 History of Graphic Design .....	1
GDES-2100 Typography .....	3
GDES-3220 Graphic Design I .....	3

### 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
HLMU-2310 Enjoyment of Music.....	3
PFMU-3100-3980 Large Ensemble.....	2
PLMU-1000-4800 Private Lessons.....	2
*THMU-1010 Introduction to Music Theory .....	2
*THMU-1210 Music Theory I .....	3
*THMU-1310 Aural Skills I .....	2

\*Students in this minor are required to take these classes prior to private lessons.

## Course Descriptions

### Art

#### ART-1100 Introduction to Art–Fa 3 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-1210 Drawing I–Fa,Sp 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: \$75)

#### ART-1220 Drawing II–Sp 3 hours

Further exploration in representing form and space with particular attention to figure and portrait drawing. Emphasis on personal interpretation and media experimentation. *Prerequisite:* ART-1210 Drawing I. (Fee: \$75)

#### ART-1230 Design I–Sp 3 hours

An exploration of the visual elements and concepts of design utilizing a variety of media. *Prerequisite:* ART-1100 Introduction to Art. (Fee: \$75)

#### ART-2220 Design II–Fa 3 hours

Theory and application of compositional elements and principles of design and visual organization. Manipulation of two- and three-dimensional forms to explore their expressive and structural possibilities. *Prerequisites:* ART-1210 Drawing I; ART-2210 Design I. (Fee: \$75)

#### ART-2250 Creative Photography–Sp 3 hours

Students will learn and apply technical knowledge and aesthetic techniques necessary to produce creative, well composed, quality black and white photographs. Additionally, students will gain historical and contemporary knowledge and appreciation of photography as a medium for artistic expression. (*Prerequisite:* GDES-1220 Digital Image/Photography or permission of the instructor.) (Fee: \$50)

#### ART-3210 Painting I–Fa 3 hours

Studio. Exploration and basic understanding of use of color and light in representing form and space. Development of composition. Use of watercolor and oil. *Prerequisites:* ART-1210 Drawing I; ART-2210 Design I. (Fee: \$75)

#### ART-3220 Painting II–Sp 3 hours

Studio. 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-3210 Painting I. (Fee: \$115)

**ART-3230 Watercolor—Sp 2 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-1210 *Drawing I*; ART-2210 *Design I*; or by portfolio. (Fee: \$115) (odd years)

**ART-3310 Art History I—Fa 3 hours**

Survey of the development of Western art and architecture from the ancient world through the High Renaissance.

**ART-3320 Art History II—Sp 3 hours**

Survey of architecture, painting, sculpture, and the graphic arts from Mannerism and the Baroque to the present. *Prerequisite:* ART-3310 *Art History I*.

**ART-3330 Three-Dimensional Design—Fa 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-1210 *Drawing I*, ART-1230 *Design I*. (Fee: \$100)

**ART-3410 Ceramics—Sp 3 hours**

Provides 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: \$115)

**ART-3610 Sculpture—Sp 3 hours**

An exploration of basic studio sculpting including additive and subtractive methods in a variety of media: carving, modeling, casting, and assemblage. *Prerequisites:* ART-1230 *Design I*, ART-3330 *Three-Dimensional Design*. (Fee: \$125)

**ART-4400 20th Century Art—Fa 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.

**ART-4980 Special Topics in Art—Fa, Sp, Su 1-2 hours**

This is a workshop for students who are interested in a collaborative studio learning experience in applied art. Applied areas to be 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.

### Church Music

**CHMU-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.

**CHMU-2100 Church Music Seminar—Fa, Sp 0 hours**

A once-per-semester seminar designed to expose students to various aspects of church music ministry. The seminar may take the form of a lecture or masterclass. *Prerequisites:* enrollment as a church music major or minor.

**CHMU-2200 Field Experience—Fa, Sp 1 hour**

Initial field experience in a local church. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by the church's pastor or minister of music. *Prerequisites:* enrollment as a church music major or minor.

**CHMU-2600 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)

**CHMU-3630 Administering Church Music I—Sp 3 hours**

Training in the organization, administration, planning, and presentation of vocal music in worship. Included in the course is a study of the administrative, organizational, and pedagogical methods for teaching and training children, youth, and adults, along with an extensive examination of music literature and curricula appropriate to different age groups. (even years)

**CHMU-3640 Administering Church Music II—Sp 3 hours**

Training in the organization, administration, planning, and presentation of instrumental music in worship. Included in the course is a study of the development of small wind and brass ensembles, large ensembles, repertoire and the function of ensembles in worship and Christian education. (odd years)

**CHMU-4900 Church Music Internship 9 hours**

Intensive field experience in a local church. Place of service is determined by student interest, recommendation of supervising faculty, availability of local church, and supervising minister of music. Students must apply for internships and receive endorsement from the advisor and the chairperson of the Department of Music one academic semester before period of service desired and prior to registering. Students should see the director of the church music area for complete internship requirements.

**CHMU-4990 Independent Study—Church Music 1-3 hours**

Independent and intensive study in a particular area of church music for individual students who demonstrate special interests and ability.



Students with artistic interest are challenged to develop their skills from a Biblical worldview.

# Music and Art

School of Humanities, Fine Arts, and Bible

## Class Study

### 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 2 hours

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)

### CLMU-1820 Piano Class II–Sp 2 hours

Continued group instruction in piano fundamentals and 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.

### CLMU-2110 Song Literature–Sp 2 hours

Survey of literature for the solo voice from the onset of Thoroughbass to the 20<sup>th</sup> century. Analysis of scores will be done through recordings and live performances. (even years)

### CLMU-2120 Oratorio Literature–Sp 2 hours

A chronological study of the world of oratorio beginning with the *Passions* of Johann Sebastian Bach continuing through Andrew Lloyd-Webber's *Joseph and the Amazing Technicolor Dreamcoat* and on to the staged oratorios of today. Class time is heavily devoted to aural and score analysis, with the occasional solos from major oratorio works. (odd years)

### CLMU-2130 Opera Literature–Fa 2 hours

Designed to acquaint the student with the world of opera literature from the earliest opera *Euridice* written in 1600 to the present 21<sup>st</sup> century operas. Representative works will be discussed from the Baroque, Seria, Buffa, Bel Canto, Romantic, Verismo, English, and Contemporary American styles. (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 20<sup>th</sup> 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 2 hours

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.

### CLMU-2750 Performance Seminar–Fa,Sp 0 hours

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, which demonstrate performance achievement and professional awareness. The portfolio may include documentation of performances, masterclass, and repertoire.

### CLMU-2800 Intro to Music Composition–Sp 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 class material. The seminar may take the form of a lecture, masterclass, or recital.

### CLMU-2860 Composition Portfolio–Fa 0 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.

## Conducting

### 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.

### 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 Intro to Conducting, or permission of instructor.



The Men's Glee Club is one of the many musical groups that performs regularly on campus and also travels throughout the country.

**CDMU-3620 Instrumental Conducting—Sp 2 hours**

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 the 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.*

**CDMU-4990 Independent Study in Conducting 1-3 hours**

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.*

**Ensembles**

**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-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 chair.*

**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, churches, and civic meetings.

**PFMU-3850 Opera Ensemble—Fa 0-1 hour**

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 Symphonic Band—Fa,Sp 0-1 hours**

The Symphonic Band is composed of approximately 80 members, selected by audition. Performing quality band literature, the band has appeared before state and national conference audiences and in concert under the baton of such guest conductors as Jim Curnow, George Strombeck, and George Wilson. Several concerts are presented each year on campus, in churches, and in schools.

**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.

**General Music**

**GMUS-1000 Music Philosophy and Aesthetics—Fa 1 hour**

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-2910 0 hours**

**Sophomore Review - Multi-Age Music Education —Sp**

A requirement for the Music Education major. It is basically a mid-point review by the entire music faculty to discern and decide the future direction of the candidate. Are they ready and competent to continue as a music education major? Criteria will include music core grades, faculty observations, and performance ability. The student will prepare case studies, an integration paper, and a technology portfolio.

**GMUS-4980 Special Topics - General Music—Fa,Sp 1-3 hours**

Study of selected topics in music.



Graphic design students have full access to many Adobe design programs used in the design field such as Photoshop CS2 and Illustrator CS2.



Students can expand their creativity using the graphic design lab in the Tyler Digital Communication Center which is fully equipped with Macintosh computers.

## Graphic Design

### **GDES-1100 History of Graphic Design—Fa 1 hour**

Survey of graphic design from pre-history through current practice. Highlighting significant stages in its development and pivotal influences including technological advances, individual works, key movements, schools of thought, and approaches relative to their time(s) and culture(s).

### **GDES-1150 Digital Image/Illustration—Fa 3 hours**

An introduction to media and professional techniques used in digital illustration. GD majors and minors only. (Fee: \$50)

### **GDES-1220 Digital Image/Photography—Fa 3 hours**

An introduction to digital imaging technology and professional techniques for image editing and photo manipulation. The course will provide opportunities to becoming proficient with the tools and techniques associated with Adobe Photoshop, the industry standard software for image editing, through classroom discussion, reading, research, and studio assignments. GD majors and minors only. (Fee: \$50)

### **GDES-2100 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 letterforms, their sources, and their influences and will provide opportunities for learning principles and guidelines for the effective use of type in visual communications 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 Design I; GDES-1150 Digital Image/Illustration. GD Majors and minors only. (Fee: \$50)

### **GDES-3220 Graphic Design I—Fa 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 around producing concepts for both printed and electronic forms of information design.

*Prerequisites:* GDES-2100 Typography; GDES-1220 Digital Image/Photography. GD majors and minors only. (Fee: \$50)

### **GDES-3230 Production Design I—Sp 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. GD majors and minors only. (Fee: \$50)

### **GDES-3300 Web Design—Su 3 hours**

Students will learn to design Web sites, pages, and content while integrating creative visual design, layout, and usable navigation features to effectively guide users to content. Concepts in visual, user-centered design will be explored while students develop practical skills in HTML, CSS, and Web publishing applications such as Macromedia Dreamweaver. *Prerequisites:* GDES-1150 Digital Image/Illustration, GDES-1220 Digital Image/Photography, GDES-3220 Graphic Design I, or permission of instructor.

### **GDES-4110 Portfolio—Fa,Sp 1 hour**

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 portfolio along with written communications for documenting their education, experience, and technical skills. Emphasis will also be given to developing verbal skills required for the interview process.

### **GDES-4220 Graphic Design II—Fa 3 hours**

An in-depth study of visual communication design and its role in creating corporate and brand identity programs. *Prerequisites:* GDES-1150 Digital Image/Illustration; GDES-1220 Digital Image/Photography; GDES-3220 Graphic Design I; GDES-3230 Production Design I; or permission of the instructor. GD majors and minors only. (Fee: \$50)

### **GDES-4230 Production Design II—Sp 3 hours**

An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. *Prerequisites:* GDES-1150 Digital Image/Illustration; GDES-1220 Digital Image/Photography; GDES-3220 Graphic Design I; GDES-3230 Production Design I; or permission of the instructor. (Fee: \$50)

### **GDES-4900 Graphic Design Internship—Fa,Sp,Su 2-9 hours**

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 to 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.





Access to the modern music computer lab allows students to work on musical ideas and provides the means for putting creativity into practice.

## History

**HLMU-2100** **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** **3 hours**

Study of music by genre and chronology. Focuses upon 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-3310 Music History I—Fa** **3 hours**

Study of the music of Western civilization traced from its primitive sources and giving special attention to Medieval, Renaissance, and Baroque music as demonstrated through the vocal and instrumental music of composers from each period.

**HLMU-3320 Music History II—Sp** **3 hours**

Study of the music of Western civilization traced from the 1580s to the present time.

**HLMU-3400 Global Music—Fa** **2 hours**

A socio-anthropological approach to the study of 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: \$25) (odd years)

**HLMU-4110 Choral Literature—Sp** **3 hours**

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, II.*

## Humanities

**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. (Fee: \$50)

**HUM-2430 Enjoyment of Music—Fa** **3 hours**

This class is designed to present a study of music by genre and chronology. It will focus upon 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. (even years)

**HUM-4980 Special Topics – Humanities—Fa,Sp** **1-3 hours**

Study of selected topics in humanities.

## Keyboard Pedagogy

**KPMU-2010 Keyboard Pedagogy I—Fa** **3 hours**

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, II; THMU1310, 1320 Aural Skills I, 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, 4110, 4120** **1 hour each**

### Directed Teaching—Fa,Sp

Supervised teaching experience in a private or class format with beginning to intermediate-level piano students. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I, II.*

**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 both in private and group settings. *Prerequisites: KPMU-2010, 2020 Keyboard Pedagogy I, II.*

**KPMU-3160 Keyboard Pedagogy Seminar II—Sp** **2 hours**

Survey of representative Baroque through 20<sup>th</sup> 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, 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 hours**

Continued application of various learning styles with application to developing musical performance in intermediate and advanced-level piano students both in private and group settings. The course also includes an introduction to business practices for the independent piano teacher.

# Music and Art

School of Humanities, Fine Arts, and Bible

## Music Education

**EDMU-1000 MENC**—Fa,Sp **0 hours**

Music Educators National Conference is the primary professional organization for music teachers. The campus chapter provides informative seminars along with service activities. All music education majors are required to enroll in this course as part of their professional development and career preparation. (Fee: \$25)

**EDMU-2730 Wind and Percussion Methods**—Sp **2 hours**

Overview of the history, pedagogy, and performance techniques of all band instruments. Required for the vocal major pursuing the B.M.E. degree and instrumental performance majors; open to others by permission of the instructor. (Fee: \$40) (even years)

**EDMU-2870 Brass Methods**—Fa **2 hours**

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the brass instruments (i.e., trumpet, horn, trombone, baritone, tuba). (Fee: \$40) (even years)

**EDMU-2900 Guitar Methods**—Sp **1 hour**

Study of the historical background and pedagogical and performance techniques of the guitar. Required of music education majors pursuing the choral track. Open to other students by permission of instructor. (Fee: \$40)

**EDMU-2910 Woodwind Methods**—Sp **2 hours**

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the woodwind instruments (i.e., flute, oboe, clarinet, saxophone, and bassoon). (Fee: \$40) (even years)

**EDMU-2930 String Methods**—Fa **2 hours**

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the string instruments (i.e., violin, viola, cello, string bass). (Fee: \$40) (odd years)

**EDMU-2950 Percussion Methods**—Sp **2 hours**

Concentration in snare drum techniques and an introduction to tympani and tuned percussion methods. (Fee: \$40) (odd years)

**EDMU-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)

**EDMU-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)

**EDMU-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.* (even years)

**EDMU-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)

**EDMU-3910 Instrumental Administration**—Fa **3 hours**

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)

**EDMU-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 Theory

**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**

Introduction to the basic materials and concepts of music. A foundational study of the essential building blocks of music, including rhythm, chord analysis, and harmony. Competency equivalency required of all music majors and minors. Open to all students. (Fee: \$30)

**THMU-1220 Music Theory II**—Sp **3 hours**

Study of fundamental harmonies and tone relations used in musical composition: elementary written and keyboard harmony, melody writing and analysis. *Prerequisite: THMU-1210 Music Theory I or passing grade on placement examinations.* (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**

Continued study of basic aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and basic chromatic major and minor systems by "guide tone" numeric scale degree method. Introduction to melodic dictation and full four-voice harmonic dictation. *Prerequisite: THMU-1310 Aural Skills I. Corequisite: THMU-1220 Music Theory II.*



The jazz band consists of 20-25 talented musicians who perform several major concerts each year featuring some of history's greatest jazz hits.

<b>THMU-1500 Introduction to Music Technology–Fa</b>	<b>1 hour</b>	<b>THMU-4130 Orchestration–Fa</b>	<b>2 hours</b>
An introductory study of the use of computers and synthesizers in the production of printed musical scores. All students are expected to complete this course during their first year of study since the skills acquired in the course are used throughout their academic curriculum.		Designed to develop skills in scoring music for various instrumental groups. <i>Prerequisite:</i> THMU-2220 Music Theory IV. (Fee: \$30) (odd years)	
<b>THMU-2140 Functional Keyboard Skills–Fa</b>	<b>1 hour</b>	<b>THMU-4140 Choral Arranging–Fa</b>	<b>2 hours</b>
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. <i>Prerequisite:</i> permission of the instructor.		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 as accompanied by a variety of media including congregation, live instruments, MIDI, and audio sound tracks. Class presentation of student arrangements in a concert setting is provided. (Fee: \$30) (even years)	
<b>THMU-2210 Music Theory III–Fa</b>	<b>3 hours</b>	<b>THMU-4990</b>	<b>1-3 hours</b>
Critical study and analysis of the chromatic harmony and formal structure of 18th and 19th century music. Creative work in traditional compositional forms.		<b>Independent Study in Theory/Composition</b>	
<b>THMU-2220 Music Theory IV–Sp</b>	<b>3 hours</b>	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.	
Survey of contrapuntal techniques and analytical study of 20th century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.		<b>Performance</b>	
<b>THMU-2310 Aural Skills III–Fa</b>	<b>2 hours</b>	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 need special approval from the department chairperson.	
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 full four-voice harmonic dictation, including more advanced chromatic language. <i>Prerequisite:</i> THMU-1320 Aural Skills II. <i>Corequisite:</i> THMU-2210 Music Theory III.		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 upon satisfactory progress as determined each semester by the instructor. (Fee: \$100 per credit)	
<b>THMU-2320 Aural Skills IV–Sp</b>	<b>2 hours</b>	<b>Private Study</b>	
Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by “guide tone” numeric scale degree method. 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. <i>Prerequisite:</i> THMU-2310 Aural Skills III. <i>Corequisite:</i> THMU-2220 Music Theory IV.		<b>PLMU-1000, 2000, 3000, 4000 Organ</b>	<b>1-2 hours</b>
<b>THMU-3110 Jazz Theory–Sp</b>	<b>3 hours</b>	<b>PLMU-1100, 2100, 3100, 4100 Piano</b>	<b>1-2 hours</b>
Study of the elements of jazz language, which will provide the student of music a basis for understanding and eventually performing and composing jazz repertoire through the study of its underlying principles. Further enables the discovery of musical structures and forms from selected jazz style periods through detailed written and aural analysis. <i>Prerequisites:</i> THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV.		<b>PLMU-1200, 2200, 3200, 4200 Voice</b>	<b>1-2 hours</b>
<b>THMU-3500 Advanced Music Technology–Sp</b>	<b>2 hours</b>	<b>PLMU-1300, 2300, 3300, 4300 Trumpet</b>	<b>1-2 hours</b>
In-depth study of notational techniques for music score production and the development of the skills required for sequencing musical compositions with computers and synthesizers. <i>Prerequisite:</i> THMU-1500 Introduction to Music Technology, passing grade on competency exam, or permission of instructor. (Fee: \$50)		<b>PLMU-1310, 2310, 3310, 4310</b>	<b>1-2 hours</b>
<b>THMU-4100 Counterpoint–Sp</b>	<b>3 hours</b>	<b>Trombone/Baritone Horn</b>	
Survey of polyphonic music of the 18th century including analysis and experimental writing of species counterpoint, canon, two-part inventions, fugal expositions, and trio sonata movements. <i>Prerequisite:</i> THMU-2220 Music Theory IV. (odd years)		<b>PLMU-1320, 2320, 3320, 4320 French Horn</b>	<b>1-2 hours</b>
<b>THMU-4110 Form and Analysis–Fa</b>	<b>3 hours</b>	<b>PLMU-1330, 2330, 3330, 4330 Tuba</b>	<b>1-2 hours</b>
Theoretical study of the structure of musical forms presented by historical style period and corresponding analytical systems, continuation in Weber’s traditional Roman numeral analysis, and introduction to Hindemith and Hanson’s extended tonality techniques and 20th century methods, including atonal/serial designs of Schoenberg, Perle, and Forte. <i>Prerequisites:</i> THMU-2220 Music Theory IV; Thmu-2320 Aural Skills IV. (even years)		<b>PLMU-1400, 2400, 3400, 4400 Clarinet</b>	<b>1-2 hours</b>
		<b>PLMU-1410, 2410, 3410, 4410 Flute</b>	<b>1-2 hours</b>
		<b>PLMU-1420, 2420, 3420, 4420 Saxophone</b>	<b>1-2 hours</b>
		<b>PLMU-1430, 2430, 3430, 4430 Oboe</b>	<b>1-2 hours</b>
		<b>PLMU-1440, 2440, 3440, 4440 Bassoon</b>	<b>1-2 hours</b>
		<b>PLMU-1500, 2500, 3500, 4500 Violin</b>	<b>1-2 hours</b>
		<b>PLMU-1510, 2510, 3510, 4510 Viola</b>	<b>1-2 hours</b>
		<b>PLMU-1520, 2520, 3520, 4520 Cello</b>	<b>1-2 hours</b>
		<b>PLMU-1530, 2530, 3530, 4530 Double Bass</b>	<b>1-2 hours</b>
		<b>PLMU-1550, 2550, 3550, 4550 Harp</b>	<b>1-2 hours</b>
		<b>PLMU-1600, 2600, 3600, 4600 Guitar</b>	<b>1-2 hours</b>
		<b>PLMU-1700, 2700, 3700, 4700 Percussion</b>	<b>1-2 hours</b>
		<b>PLMU-2800, 3800, 4800 Music Composition</b>	<b>1-2 hours</b>
		<b>PLMU-3900 Junior Recital</b>	<b>1 hour</b>
		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: \$75)	
		<b>PLMU-4900 Senior Recital</b>	<b>1 hour</b>
		Music majors should register for this course the semester in which their recitals are to be presented. Capstone course. (Fee: \$75)	
		<b>PLMU-4910 Senior Seminar–Fa,Sp</b>	<b>1 hour/sem</b>
		One-on-one preparation for the senior project capstone presentation. The seminar may take the form of private studio instruction or research assistance. (Fee: \$100)	
		<b>PLMU-4920 Senior Project–Sp</b>	<b>1 hour</b>
		The capstone project for the B.A. in Music degree. Students should register for this course at the same time as their second semester of Senior Seminar. (Fee: \$75)	

## Mission Statement

We, the Cedarville University Department of Nursing are called to educate nursing students who fulfill God's purpose for their lives in local communities and throughout the world. Through the power of the Holy Spirit, we are leaders in promoting the health of people in a variety of settings. We are devoted to God's service through the ministry of nursing.

The department of nursing seeks to produce graduates who demonstrate mastery in four primary areas: godly living, care, culture, and information management.

## Accreditation and Licensure

### National

The department of nursing program is accredited by the Commission on Collegiate Nursing Education.

### State

The department of nursing has full approval by the Ohio Board of Regents and the Ohio Board of Nursing.

### Registration

Graduates are eligible for admission to the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse in any state.

## Personal Requirements

Students who wish to apply for admission to Cedarville University and major in nursing need a strong commitment to leading a godly lifestyle and to learning ways to use nursing as a ministry for Christ. A college preparatory curriculum including four years of both mathematics and science provides the best academic preparation for the nursing major. An ACT composite score of 24 (or SAT composite of 1100) or greater is required.

## Department Requirements

### Admission to Nursing Clinical Courses

Students apply for admission to the department of nursing clinical courses during the *Spring Semester of their sophomore year*. Students who meet the following criteria are admitted:

1. Earn a cumulative grade point average of 2.8 or higher.
2. Earn a "C" or above in all required courses.
3. Write and have approved a statement of career goals.
4. Provide a recommendation from the respective academic advisor.
5. Provide appropriate health information.
6. Pay an application fee (\$25 non-refundable).
7. Provide evidence of liability insurance (\$1 million/\$3 million limits).
8. Obtain current certification in cardiopulmonary resuscitation (CPR).
9. Demonstrate computer literacy.
10. Demonstrate a level of health consistent with safe nursing practice.
11. Complete required prerequisite courses prior to enrollment in clinical nursing courses. (Students may have no more than *three* outstanding general education or Bible courses prior to beginning nursing clinical courses.)
12. Have a plan for provision of own transportation to clinical experiences.

## Retention Requirements

1. Earn a grade of C or above in all nursing courses.
2. Maintain a cumulative GPA of 2.5 or higher at the end of each semester junior and senior year.
3. Maintain *current* CPR certification and professional liability insurance.
4. Attain clinical objectives.
5. Receive a positive recommendation by the faculty of the department of nursing.

## Graduation Requirements

1. Earn a grade of "C" or above in all nursing courses.
2. Register for admission to the examination for state licensure as a registered nurse.
3. Earn a passing score on a national standardized nursing examination selected by the faculty and taken during the Spring Semester of the senior year.
4. Receive a positive recommendation by the faculty of the department of nursing.
5. 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 additional scholarships are available through our endowments although primarily offered to upperclassmen accepted into the department of nursing clinical courses. Information is available in the department office, the financial aid office, and on the financial aid Web site at [www.cedarville.edu/finaid](http://www.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 select a minor in cross-cultural nursing.

### Licensed Nurses Who Wish to Earn a B.S.N.

The curriculum plan for the R.N. and L.P.N. is individually designed on the basis of previous coursework. Interested students should request R.N.-B.S.N. or L.P.N.-B.S.N. education information from the department of nursing. Specific information concerning transfer admission and the transfer of college credit is in the admissions section of this catalog.

## Co-Curricular Opportunities

### Christian Nurses Association

The Christian Nurses Association promotes spiritual growth and professional development for nurses and service for the community. Membership is open to all nursing students.

## Technical Resources

- **Barrett Clinical Lab** Industry-standard technology for onsite learning of basic clinical skills required for nursing care
- **20-Station Multi-Media Lab** Equipped with a variety of software programs to supplement out-of-class student learning

## 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.

## Faculty

**Irene Alyn**, Chairperson; Distinguished Professor 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 since 1981.

**Lois Baker**, Professor 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 since 1984.

**Carolyn Barnett**, Instructor of Nursing. *Education:* B.S.N., Cedarville University, 1986; M.S.N. University of Phoenix, 2006. At Cedarville since 1997.

**Connie B. Ford**, Assistant Professor of Nursing. *Education:* Diploma, Bethesda Hospital School of Nursing, 1977; B.S.N., Xavier University, 1989; M.S., Wright State University, 1992. At Cedarville since 1993.

**Karen Callan**, Instructor of Nursing (PT). *Education:* B.S.N., Cedarville University, 1985. At Cedarville since 1992.

**Carolyn Carlson**, Distinguished Professor 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, 1974. At Cedarville since 1988.

**Linda Cave**, Assistant Professor of Nursing. *Education:* B.S.N., University of Northern Colorado, 1981; M.S., University of Colorado Health Sciences Center, 1983. At Cedarville since 1989.

**Sharon Christman**, Associate Professor of Nursing. *Education:* B.S.N., Cedarville University, 1992; M.S., The Ohio State University, 1995; Ph.D., The Ohio State University, 2003. At Cedarville since 1997.

**Janet Conway**, Senior Professor 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 since 1982.

**Kimberly Higginbotham**, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1993; M.S.N./P.N.P., University of Virginia, 2000. At Cedarville since 2000.

**Chu-Yu Huang**, Assistant Professor of Nursing. *Education:* A.D.N., Foo Yin Nursing Jr. College of Nursing, Taiwan, 1989; B.S.N., University of Dubuque, 1992; M.S.N., The Ohio State University, 1995; Ph.D., The Ohio State University, 2001. At Cedarville since 2001.

**Mark Klimek**, Associate Professor of Nursing. *Education:* B.S.N., University of Virginia, 1977; M.S.N., Wayne State University, 1979; graduate study, Wayne State University, 1987. At Cedarville since 1983.

**Sara Larsen**, Instructor of Nursing (PT). *Education:* B.S.N., Cedarville University, 1985. At Cedarville since 1997.

**Suzanne Lefever**, Assistant Professor of Nursing (FT). *Education:* B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001.

**Denise Martin**, Instructor of Nursing (PT). *Education:* B.S.N., Cedarville University, 1987. At Cedarville since 2005.

**Rachel Parrill**, Instructor of Nursing. *Education:* B.S.N., Cedarville University, 1992; M.S., Wright State University, 2006. At Cedarville since 2005.

**Susan Salladay**, Professor of Nursing. *Education:* B.A., Whitman College, 1964; M.A., P.h.D., Boston College, 1974; A.S., College of Saint Mary, 1984. At Cedarville since 2005.

**David Sharp**, Professor of Nursing. *Education:* M.A., University of Aberdeen, Scotland, UK, 1977; M.Sc., University of Edinburgh, Scotland, UK, 1989; Ph.D., The Robert Gordon University,

Scotland, UK, 1999; M.Sc., University of Edinburgh, Scotland, UK, 2001. At Cedarville since 2001.

**Kimberly Sharp**, Professor of Nursing. *Education:* B.A., Cedarville University, 1982; B.S.N., Cedarville University, 1985; M.Sc., University of Edinburgh, Scotland, UK, 1989; Ph.D., The Robert Gordon University, Scotland, UK, 2000. At Cedarville since 2001.

**Sandy Shortt**, Wellness Center Coordinator (PT). *Education:* B.S.Ed., Central Michigan University, 1976; M.S.Ed., Virginia Polytechnic Institute and State University, 1978; Ed.D, Virginia Polytechnic Institute and State University, 1982. Certified Health Education Specialist, 2000; At Cedarville since 1997.

**Judith Shrubsole**, Associate Professor 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; D.N.Sc., Rush University, 2003. At Cedarville since 1992.

**Rhonda Smith**, Instructor of Nursing (PT). *Education:* B.S.N., Lynchburg College, 1988. At Cedarville since 2000.

**Lisa Trefz**, Assistant Professor of Nursing (PT). *Education:* Diploma in Nursing, Miami Valley Hospital School of Nursing, 1976; B.S.N., Wright State University, 1982; M.S.N., University of Cincinnati, 1999. At Cedarville since 1994.

**Amy Voris**, Assistant Professor of Nursing. *Education:* B.S.N., University of Cincinnati, 1981; M.S. Wright State University, 2002. At Cedarville since 2005.



## Clinical Activity Information

### Facilities

All clinical activity is conducted under the supervision of the Cedarville University Department 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 physicians' offices.

Students are responsible for transportation to and from clinical settings. Car pools are encouraged to help defray transportation costs.

### Health Information

Prior to clinical nursing courses, students must provide documentation of:

1. Complete physical examination.
2. Rubella and Rubeola immunity.
3. Negative Mantoux test. Clinical agencies require a negative chest x-ray in the event of a positive TB skin test.
4. History of chicken pox or results of a Varicella Titer.
5. Childhood immunizations.
6. Tetanus booster (within past 5 years).
7. Hepatitis B vaccine series or signed declination.
8. Hep Vax (Hepatitis A) vaccine recommended.

### Uniforms and Equipment

Each student must secure uniforms and photo identification prior to the first clinical experience. Students must purchase books and equipment needed in clinical settings.

## 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:

BIO-2010 Human Anatomy and Physiology .....	4
BIO-2020 Advanced Clinical Physiology .....	4
BIO-2210 Microbiology .....	4
CHEM-1000 Principles of Chemistry .....	5
CHEM-1010 Principles of Biochemistry .....	5
HIST-3750 Social Movements .....	3
PYCH-1600 General Psychology .....	3
PYCH-2610 Statistics .....	3

The nursing major requirements involve 73 semester hours including:

NSG-1010 Member of Nursing Profession I .....	1
NSG-1020 Provider of Nursing Care I .....	2
NSG-2010 Member of Nursing Profession II .....	1
NSG-2020 Provider of Nursing Care II .....	2
NSG-2150 Nutrition .....	2
NSG-3010 Maternity and Women's Health Nursing .....	6
NSG-3020 Provider of Nursing Care III .....	2
NSG-3050 Nursing in Relationships .....	6
NSG-3070 Nursing Care of Diverse Populations .....	2
NSG-3080 Concepts in Basic Medical-Surgical Nursing .....	6
NSG-3090 Public Health Nursing .....	6
NSG-3110 Pharmacology .....	3
NSG-3150 Concepts in Gerontological Nursing .....	2
NSG-4010 Adult/Child Health Nursing .....	14
NSG-4050 Leaders as Managers in Clinical Nursing .....	10
NSG-4830 Theory in Nursing .....	2
NSG-4930 Nursing Research .....	3
*NSG-4950 Seminar in Nursing .....	3

\*Capstone Course

## Nursing Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	33
Nursing Major Requirements .....	73
Required Cognates .....	31
<b>Total (minimum, not including proficiency) .....</b>	<b>137</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Nursing

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
CHEM-1000 Principles of Chemistry .....	5
CHEM-1010 Principles of Biochemistry .....	5
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3
NSG-1010 Member of Nursing Profession I .....	1
NSG-1020 Provider of Nursing Care I .....	2
PEF-1990 Physical Activity and the Christian Life .....	1
PYCH-1600 General Psychology .....	3
<b>Total .....</b>	<b>35</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BIO-2010 Human Anatomy and Physiology .....	4
BIO-2020 Advanced Clinical Physiology .....	4
BIO-2210 Microbiology .....	4
HIST-3750 Social Movements .....	3
NSG-2010 Member of Nursing Profession II .....	1
NSG-2020 Provider of Nursing Care II .....	2
NSG-2150 Nutrition .....	2
PYCH-2610 Statistics .....	3
Literature Elective .....	3
Physical Education Activity Elective .....	1
<b>Total .....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
NSG-3010 Maternity and Women's Health Nursing .....	6
NSG-3020 Provider of Nursing Care III .....	2
NSG-3050 Nursing in Relationships .....	6
NSG-3070 Nursing Care of Diverse Populations .....	2
NSG-3080 Concepts in Medical-Surgical Nursing .....	6
NSG-3090 Public Health Nursing .....	6
NSG-3110 Pharmacology .....	3
NSG-3150 Concepts in Gerontological Nursing .....	2
<b>Total .....</b>	<b>37</b>

#### Fourth year:

NSG-4010 Adult/Child Health Nursing .....	14
NSG-4050 Leaders as Managers in Clinical Nursing .....	10
NSG-4830 Theory in Nursing .....	2
NSG-4930 Research in Nursing .....	3
NSG-4950 Seminar in Nursing .....	3
<b>Total .....</b>	<b>32</b>

## 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:

BEPH-2260 Religion and Culture.....	3
One course selected from .....	3
ANTH-1800 Cultural Anthropology.....	3
BEPT-3470 Cross-Cultural Ministry .....	3
PYCH-1800 Cross-Cultural Psychology .....	3
One course selected from .....	3
BEPT-2000 Introduction to Missions.....	3
BEPT-2400 Personal Evangelism.....	3
BEPT-3410 Discipleship .....	3
BEPT-3450 Contemporary World Missions .....	3
BEPT-3510 Introduction to Urban Ministry.....	3
NSG-2200 Cross-Cultural Interactions .....	1
*NSG-4200 Culture and Health .....	3
Credits selected from.....	3
NSG-3200 Cross-Cultural Nursing Internship.....	1-3
NSG-4800 Independent Study.....	1-2

\*Crosslisted as an honor's seminar.

## Course Descriptions

### NSG-1010 Member of Nursing Profession I–Fa 1 hour

An introduction to nursing education, practice, theory, and research. Includes discussion of professional ethics and factors that motivate and influence Christian nurses. As a member of the nursing profession, students are introduced to the use of information management skills to provide culturally-sensitive care, that is consistent with godly living.

### NSG-1020 Provider of Nursing Care I–Sp 2 hours

An introduction to the role of the nurse as a provider of nursing care. Emphasis on supervised practice and validation of foundational nursing skills. Assessment and decision-making processes are introduced within the Cedarville University five-dimensional nursing model. (Fee: \$100)

### NSG-2010 Member of Nursing Profession II–Fa,Sp 1 hour

An introduction to and application of professional nursing roles within the U.S. and global health care systems. Includes a focus on ways of thinking and an introduction to analytical judgment as a member of a profession from a Christian framework.

*Prerequisite:* NSG-1010 Member of Nursing Profession I.

### NSG-2020 Provider of Nursing Care II–Sp 2 hours

An introduction to clinical decision-making processes with application to various pathophysiological conditions in providing nursing care. Focus is on the development of systematic approaches to assessing the health balance of individuals. Includes elements of a health history, performing physical examination, analysis and categorizing of physical response patterns, and communicating findings in appropriate terminology.

*Prerequisite:* NSG-1020 Provider of Nursing Care I. (Fee:\$100)

### NSG-2150 Nutrition–Sp,Su 2 hours

Study of normal nutrition and food consumption patterns of individuals and families of all ages within various cultures. Metabolism of food and nutrient utilization is described in a health balance framework. The use of nutrition as a resource to promote health is discussed. *Prerequisite:* CHEM-3710 Biochemistry; BIO-2010 Anatomy and Physiology; or permission of instructor.

### NSG-2200 Cross-Cultural Interactions–Fa,Sp 1 hour

Cross-cultural interactions are planned, purposeful experiences designed to gain information and understanding of missions and/or cross-cultural nursing. *Prerequisite:* permission of instructor.

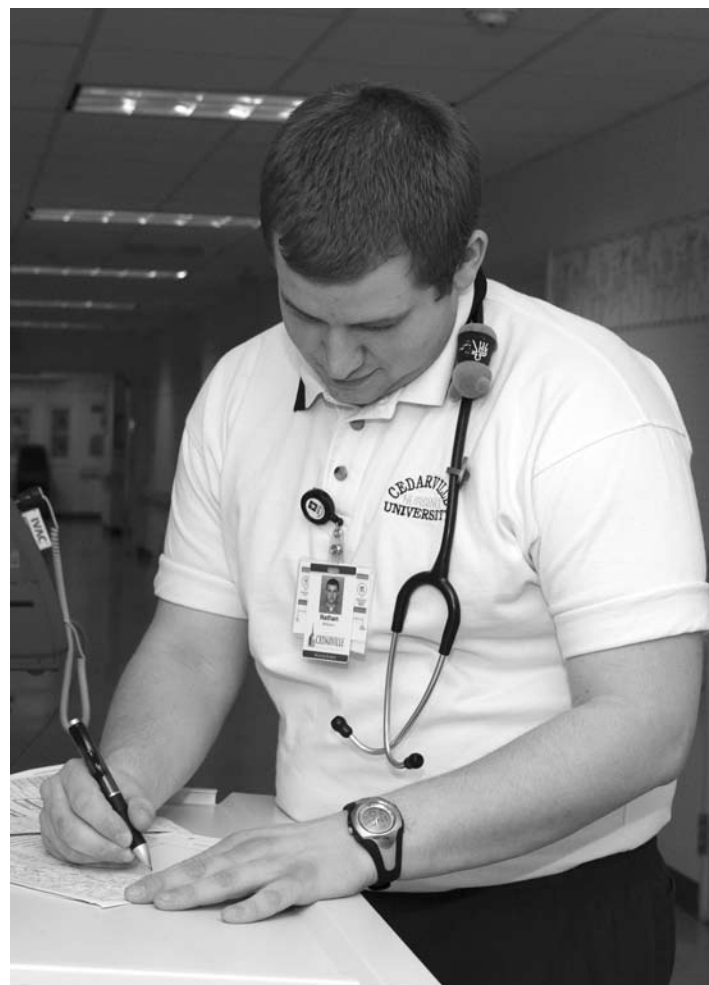
### NSG-3010 6 hours

### Maternity and Women’s Health Nursing–Fa,Sp

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. *Prerequisites:* NSG-2010 Member of Nursing Profession II; NSG-2020 Provider of Nursing Care II; NSG-3020 Provider of Nursing Care III (or corequisite) NSG-3110 Pharmacology (or corequisite). (Fee: \$100)

### NSG-3020 Provider of Nursing Care III–Fa 2 hours

Students learn information management skills of documentation, medical terminology, and abbreviations and develop technical skills for providing nursing care in various settings, including medication administration and providing preoperative care. Consideration is given to development of clinical role responsibilities of the nurse to development of clinically appropriate nursing interventions using a case study approach. *Prerequisites:* NSG-2010 Member of Nursing Profession II; nursing courses. (Fee: \$100)



The nursing profession provides tremendous opportunities for men.

### **NSG-3050 Nursing in Relationships—Fa,Sp 6 hours**

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 health care 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. *Prerequisites:* *PYCH-1600 General Psychology; NSG-2010 Member of Nursing Profession II; NSG-2020 Provider of Nursing Care II.* (Fee: \$100)

### **NSG-3070 Nursing Care of Diverse Populations—Sp 2 hours**

Students develop information management skills when investigating societal structures that determine the cultural patterns of diverse populations. Issues of similarity and difference are explored as a basis for culturally sensitive practice. Concepts of health and illness direct examination of complex forces that maintain, threaten, and promote the health balance of individuals, families, and communities. *Prerequisites:* *NSG-2010 Member of Nursing Profession II; NSG-2020 Provider of Nursing Care II; admission to clinical nursing courses; or permission of instructor.*

### **NSG-3080 Concepts in Medical-Surgical Nursing—Fa,Sp 6 hours**

Focus on concepts of nursing necessary to provide care to adults 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 to individuals and family groups. Students begin to demonstrate competency in technical skills and the professional nursing role within the clinical and laboratory settings. *Prerequisites:* *NSG-2010 Member of Nursing Profession II; NSG-2020 Provider of Nursing Care II; NSG-3020 Provider of Nursing Care III (or corequisite); NSG-3110 Pharmacology (corequisite).* (Fee: \$100)

### **NSG-3090 Public Health Nursing—Fa,Sp 6 hours**

Students focus on theoretical models of primary health care and health promotion. Contemporary health issues are examined in light of social policy initiatives and their impact on community building and disease prevention. Students use epidemiological and community resources to analyze and apply strategies for implementing community focused nursing practice. *Prerequisite:* *NSG-2010 Member of Nursing Profession II, NSG-2020 Provider of Nursing Care II, NSG-3110 Pharmacology (corequisite).* (Fee: \$100)



*Because nursing students view their work as a ministry, they are able to impact many lives with the love of Christ.*



**NSG-3110 Pharmacology—Fa 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:* CHEM-1010 Principles of Biochemistry; BIO-2020 Advanced Clinical Physiology; and permission of instructor.

**NSG-3150 Concepts in Gerontological Nursing—Sp 2 hours**

An overview of health, wellness, and changes in health in older adults across the five dimensions. Emphasis is on understanding the concepts of aging; access to care; assessment of functional, psychosocial, cognitive, and spiritual status; functional and psychosocial aspects of syndromes common to older adults; living with chronic health imbalances; medication management issues; elder mistreatment; promoting quality of life; and end-of-life care. *Prerequisites:* NSG-3020 Provider of Care III; NSG-3110 Pharmacology

**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-3080 Concepts in Medical-Surgical Nursing; permission of instructor.

**NSG-4010 Adult/Child Health Nursing—Fa 14 hours**

Focus is on common physiological imbalances of adults and children and the nursing care required to restore or promote health balance across the five dimensions. Special emphasis is given to the application of biblical truth concerning illness, suffering, helping, and compassion, along with common moral and ethical issues encountered by nurses. Students gain increasing independence in professional nursing role development as designers and coordinators of care. *Prerequisites:* NSG-2150 Nutrition; NSG-3080 Concepts in Medical-Surgical Nursing; NSG-3090 Public Health Nursing; NSG-3110 Pharmacology. (Fee: \$100)

**NSG-4050 Leaders as Managers in Clinical Nursing 10 hours**

Focuses on the observation and development of leadership/management skills and the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is given to the biblical view of successful leadership/management. Students assume professional nursing roles working under the supervision of faculty, RN preceptors, clinical specialists, and/or various levels of nurse managers in their clinical area of choice. Students work full-time for five weeks following the preceptor's schedule and shift, including nights, weekends, and holidays. *Prerequisite:* NSG-4010 Adult/Child Health Nursing or permission of instructor. (Fee: \$100)

**NSG-4090 Public Health Project—Fa, Sp 1 hour**

Nursing students work in a collaborative relationship with a community to assess, intervene, and evaluate the capacity to improve the health of a population. *Prerequisites:* NSG-3070 Nursing Care of Diverse Populations; NSG-3090 Public Health Nursing. (Fee: \$50)

**NSG-4200 Culture and Health—Fa 3 hours**

Situations in which cross-cultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution. *Prerequisite:* junior/senior standing or permission of instructor.

**NSG-4800 Independent Study in Nursing—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.



The caring nature of nursing is characterized by a sensitive, compassionate approach that recognizes and respects the uniqueness and worth of individuals.

**NSG-4830 Theory in Nursing—Sp 2 hours**

Theories of nursing and borrowed theory are studied to demonstrate conceptual frameworks for nursing care used to restore balance of resources and demands. Students comparatively analyze a data set using Christian nursing theory and at least one other set of assumptions. *Prerequisite:* NSG-4010 Adult/Child Health Nursing.

**NSG-4930 Nursing Research—Fa 3 hours**

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:* NSG-3080 Concepts in Medical-Surgical Nursing; PSYCH-2610 Statistics.

**NSG-4950 Seminar in Nursing—Sp 3 hours**

Focuses on trends in professional nursing. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. The political, legal, economic, social, and ethical factors that disrupt the balance of resources and demands in health care are debated. Capstone course. *Prerequisite:* NSG-4010 Adult/Child Health Nursing.

## Mission Statement

The Cedarville University Department of Psychology seeks to:

1. Develop understanding of biblical content that has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
2. Provide an analysis of the person from physical, emotional, rational, and spiritual levels.
3. Aid students in their personal adjustment to everyday life through an understanding of human behavior.
4. Prepare students for graduate study in psychology and related areas.
5. Train students desiring to use counseling in vocational ministry and in biblical counseling contexts.
6. Introduce students to the work world through internships, Christian ministries, guest lecturers, and advisement.
7. Provide courses in psychology necessary for teacher certification.

## Personal Requirements

Some students who pursue a major in psychology are interested in providing human services to populations with special needs. Other psychology majors choose to focus on graduate school preparation, including research interests.

## Department Requirements

All psychology majors must obtain a cumulative 2.0 grade point average or higher in their major for graduation.

## Programs of Study

The department of psychology offers a Bachelor of Arts degree in the following programs of study:

### Majors

- Psychology
- Applied Psychology with emphases in:
  - Family Studies
  - Counseling

### Minor

- Psychology

While significant flexibility exists in both the psychology and applied psychology majors, the latter program is particularly useful for students not intending to pursue graduate studies subsequent to earning the bachelor's degree. The applied psychology major provides more in-depth coursework geared specifically toward human service jobs in child and family and counseling fields.

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.

## Co-Curricular Opportunities

Psychology majors have the opportunity to present papers at the Mid-America Undergraduate Psychology Research Conference and the Ohio Undergraduate Psychology Conference. In addition, the department sponsors the Alpha Psi Omega (APO) Psychology Club for qualifying psychology majors.

## Technical Resources

Psychology students are able to conduct data analysis utilizing the University's SPSS software system. Counseling skill courses involve participation in simulated role-playing experiences. Personality inventories are utilized as part of courses in personality and psychological measurement.



Professor Chuck Dolph invests his life into students by way of mentoring, discipling, and providing individual guidance in the psychology discipline.

### Career Opportunities

The Cedarville Psychology Department has a strong track record in seeing alumni placed in quality graduate psychology and counseling programs. In addition, graduates of the applied psychology major find ready placements in human service agencies after graduation. Careers pursued by psychology majors include:

- Author
- Behavior specialist
- M/R populations
- Chaplaincy
- Child therapist
- College counselor
- College professor
- 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 psychologist
- Marriage and family therapist
- Missions agency counselor
- Private practice
- Psychologist (clinical)
- School psychologist
- Social agency counselor
- State hospital counselor
- Substance abuse counselor

### Faculty

**Michael Firmin, Chairman:** Professor of Psychology. *Education:* B.A., Calvary Bible College, 1983; M.A., Calvary Theological Seminary, 1985; M.S./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.

**Milton Becknell,** Associate Professor of Psychology. *Education:* B.A., University of North Texas, 1973; B.S., Texas Christian University, 1977; M.S., University of Texas at Austin, 1980; Ph.D., University of Southern Mississippi, 1989. Diploma, American Board of Professional Psychology in Clinical Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.

**Cosette Choeiri,** Assistant Professor of Psychology. *Education:* B.S., University of Ottawa, 1997; B.A., University of Ottawa, 1999; Ph.D., University of Ottawa, 2005. At Cedarville since 2006.

**Charles Dolph,** 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.

**Chi-en Hwang,** Professor 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.

**Carl Ruby,** Vice President for Student Services. *Education:* B.A., Cedarville University, 1983; M.A., Wheaton College, 1988; Ph.D., Ohio University, 1996. At Cedarville since 1989.

**Luke Tse,** Assistant 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.

**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.



## Psychology

The **psychology major** provides students with general exposure to the field of psychology in preparation for graduate study in psychology or a number of other human service positions.

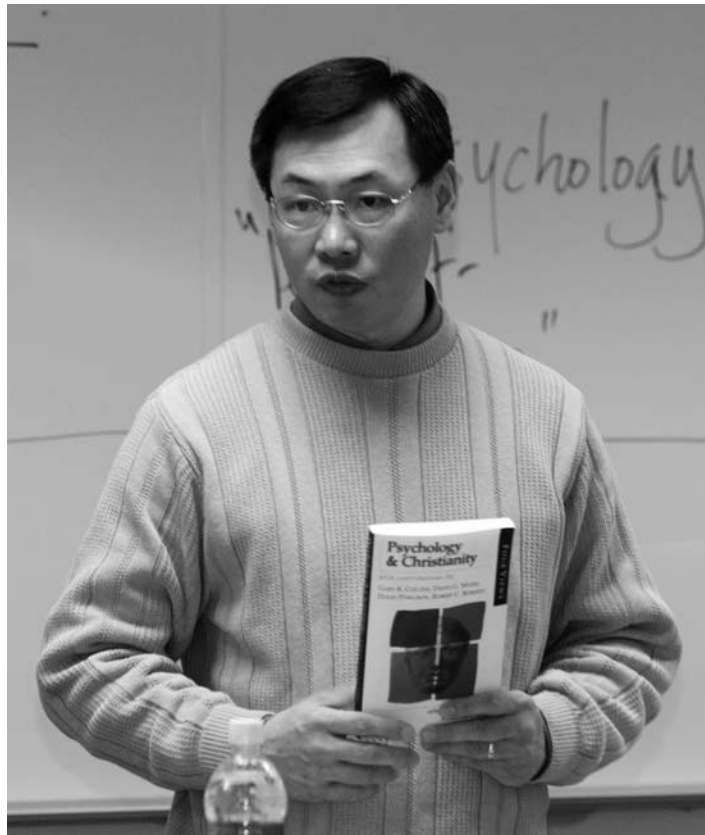
Course requirements involve 40 semester hours including:

PYCH-1000 Orientation to Psychology .....	1
PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3610 History and Systems of Psychology .....	3
PYCH-3650 Psychology of Learning and Cognition .....	3
PYCH-3660 Fundamentals of Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
PYCH-4640 Literature Seminar in Psychology .....	3
PYCH-4950 Senior Research Project .....	3
*PYCH-4990 Psychology Internship .....	3

\*Capstone Course

### Psychology Major Curriculum Summary

Proficiency Requirements .....	0-5
Psychology Major Requirements .....	40
Other General Education Requirements .....	46-54
Electives .....	42
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Professors such as Dr. Luke Tse prepare students for successful human service careers in secular environments as well as biblical counseling in ministry settings.

### Suggested Four-Year Curriculum for a Major in Psychology

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	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 the Christian Life .....	1
PYCH-1000 Orientation to Psychology .....	1
PYCH-1600 General Psychology .....	3
Biology Elective .....	3.5
History Elective .....	3
Physical Education Activity Elective .....	1
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>34</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3650 Psychology of Learning and Cognition .....	3
PYCH-2600 Human Development: Lifespan .....	3
Humanities/Global Awareness Elective .....	3
Literature Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>30</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
PYCH-3660 Fundamentals of Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
Electives .....	14
<b>Total .....</b>	<b>30</b>

#### Fourth year:

PYCH-3610 History and Systems of Psychology .....	3
PYCH-4640 Literature Seminar in Psychology .....	3
PYCH-4950 Senior Research Project .....	3
PYCH-4990 Psychology Internship .....	3
Electives .....	22
<b>Total .....</b>	<b>34</b>

A complete description of the general education requirements is found on page 18

## Applied Psychology

The **applied psychology major** provides students with strong undergraduate preparation in the areas of child and family studies and counseling. Applied psychology majors complete the same core courses as do the general psychology majors.

In addition, students take courses that are useful for pursuing jobs in human service fields after completing their baccalaureate degrees. The applied psychology major may be attractive to students who do not wish to declare a formal minor (other than Bible) and instead wish to complete additional psychology courses as part of their four-year program of study.

Course requirements include 37 semester credits of core psychology courses and an additional 23 credits in their applied emphasis.

<i>Psychology core requirements</i> .....	37
PYCH-1000 Orientation to Psychology .....	1
PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3610 History and Systems of Psychology .....	3
PYCH-3650 Psychology of Learning and Cognition .....	3
PYCH-3660 Fundamentals of Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
PYCH-4640 Literature Seminar in Psychology .....	3
PYCH-4950 Senior Research Project .....	3

The **family studies emphasis** focuses on the development of traits that are commonly found in a healthy family. Healthy emotional and spiritual dimensions are emphasized along with the analysis of factors that lead to dysfunctional behavior and inadequate spiritual development. Course requirements include 23 credit hours:

PYCH-2751 Family and Couple Interventions .....	3
PYCH-3130 Intimate Relationships .....	3
PYCH-3420 Human Sexuality .....	3
PYCH-4700 Behavioral Problems in Children .....	3
*PYCH-4990 Internship in Child and Family Studies .....	3
<i>Elective hours in psychology</i> .....	8

The **counseling emphasis** stresses relational skills, healthy growth, rational planning, and decision making involved in helping people of all ages who have personal, social, or spiritual concerns. Course requirements include 23 credit hours:

PYCH-3630 Testing and Measurement .....	3
PYCH-3670 Group Dynamics .....	3
PYCH-3701 Counseling Adolescents .....	3
PYCH-4400 Counseling Skills .....	3
*PYCH-4990 Psychology Internship in Counseling .....	3
<i>Elective hours in psychology</i> .....	8

\*Capstone Course

### Applied Psychology Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	46-54
Applied Psychology Requirements .....	60
Electives .....	22
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Applied Psychology

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	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 the Christian Life .....	1
PYCH-1000 Orientation to Psychology .....	1
PYCH-1600 General Psychology .....	3
Biology Elective .....	3.5
History Elective .....	3
Physical Education Activity Elective .....	1
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>34</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Abnormal Psychology .....	3
PYCH-3650 Psychology of Learning and Cognition .....	3
PYCH-2600 Human Development: Lifespan .....	3
Humanities/Global Awareness Elective .....	3
Literature Elective .....	3
Electives .....	6
<b>Total .....</b>	<b>30</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
PYCH-3660 Fundamentals of Counseling .....	3
PYCH-3690 Social Psychology .....	3
PYCH-3730 Research Methods .....	3
PYCH-3900 Physiological Psychology .....	3
Applied Psychology Concentration Courses .....	14
<b>Total .....</b>	<b>30</b>

#### Fourth year:

PYCH-3610 History and Systems of Psychology .....	3
PYCH-4640 Literature Seminar in Psychology .....	3
PYCH-4950 Senior Research Project .....	3
PYCH-4990 Psychology Internship .....	3
Applied Psychology Concentration Courses .....	6
Electives .....	16
<b>Total .....</b>	<b>34</b>

## Minor

### Psychology Minor

The **minor in psychology** helps students who find that additional 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 16 semester hours including:

PYCH-1600 General Psychology .....	3
PYCH-2640 Abnormal Psychology .....	3
<i>Electives in psychology</i> .....	10

## Course Descriptions

### 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-1600 General Psychology–Fa,Sp,Su 3 hours

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 3 hours

An analysis of the physiological, social, and psychological development of the individual from conception through the total life span.

### PYCH-2610 Statistics–Fa,Sp,Su 3 hours

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in psychology. 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 3 hours

Focus upon etiology, symptomatology, and prognosis of psychological disturbance. *Prerequisite: PYCH-1600 General Psychology.*

### PYCH-2700 Child Development 3 hours

A study of the physiological, psychological, and spiritual growth of the child from conception to the preadolescent level. Developmental research on family systems theory, the dynamic of roles and relationships within families and communities, and the influence of cultural practice and beliefs on family systems is emphasized.

### 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-2751 Family and Couple Interventions–Sp 3 hours

Exploring the dynamics of marriage relationships and family systems. Scriptural, psychological, and Christian-life issues spanning pre-marriage through family life cycle are studied.

### PYCH-2800 Addictions 3 hours

This course examines a variety of addictions, including alcohol, drugs, food, sex, gambling, computer games/Internet, and codependence. The course will focus on symptoms, causes, treatments, and impact on society. Students will be challenged to develop a biblical perspective.

### PYCH-2840 Concepts of Chemical Dependency–Sp 3 hours

Available to all students. Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse and methods of assessment, intervention, and treatment.

### 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-3130 Intimate Relationships–Fa 3 hours

Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. *Prerequisite: PYCH-1600 General Psychology.*

### PYCH-3380 Health Psychology–Fa 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) (even years)

### 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*

### 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.*

### 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

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-3650 3 hours

#### Psychology of Learning and Cognition–Fa,Sp

Concepts and theories of learning and cognition with emphasis placed on personal applications of accepted procedures. *Prerequisite: PYCH-1600 General Psychology.*



Psychology majors are challenged to conduct independent research and produce publishable works with the guidance of faculty advisors.

**PYCH-3660 Fundamentals of 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—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-3690 Social Psychology—Fa,Sp 3 hours**

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.

**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.

**PYCH-3701 Counseling Adolescents—Fa,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

**PYCH-3710 Adult Development and Aging—Sp 3 hours**

The study of physical, psychological, social, and spiritual development and experience in the adult years. *Prerequisite:* PYCH-1600 General Psychology.

**PYCH-3720 Psychology of Personality—Fa,Sp 3 hours**

Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$15)

**PYCH-3730 Research Methods—Fa,Sp 3 hours**

An introduction to methods utilized in psychological 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.

**PYCH-3750 Psychological Testing 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. (Fee: \$20)

**PYCH-3900 Physiological Psychology—Fa,Sp 3 hours**

Explores the physiological, biological, and anatomical mechanisms responsible for behavior. *Prerequisite:* PYCH-1600 General Psychology.

**PYCH-3901 Medications and Behavior—Sp 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 (even years)

**PYCH-4400 Counseling Skills—Fa,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 Literature Seminar in Psychology—Fa,Su 3 hours**

Reports and discussions of research literature in psychology. Required of all psychology majors during their senior year.

*Prerequisite:* permission of instructor.

**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.

**PYCH-4700 Behavioral Problems in 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-4950 Senior Research Project—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 hours**

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 psychology department 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)



Psychology internships are completed in a variety of contexts such as the picture above, showing Jennifer Brink working for a semester at the nation's leading animal training center in Chicago.

## Mission Statement

The Cedarville University Department of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, 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:

1. Provide a meaningful learning experience in the sciences and mathematics as part of the liberal arts core curriculum.
2. Aid students in developing clear and orderly thinking processes through the use of the techniques of science and mathematics.
3. 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.
4. Prepare students for graduate study or further professional study in the medical, environmental, or agricultural sciences.
5. Prepare secondary teachers with a biblical perspective of science.
6. 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.



All of Cedarville's outstanding science and mathematics programs benefit from the breadth and variety of course offerings available, a dedicated faculty, and our modern facilities.

## Programs of Study

The department of science and mathematics offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- Biology
- Chemistry
- Life Science Education
- Mathematics
- Mathematics Education – Integrated
- Physical Science Education
- Physics
- Physics Education
- Science Comprehensive Education – Integrated

### Bachelor of Science (B.S.) in:

- Biology
- Chemistry
- Forensic Science
- Mathematics
- Molecular and Cellular Biology
- Physics

### Minors in:

- Biology
- Bioethics
- Chemistry
- Earth Science
- Mathematics
- Physics

### Special programs:

- Environmental Biology
- Medical Technology
- Preagriculture
- Premedical (pre-health professions)
- Prepharmacy
- Pre-physical Therapy

## Co-Curricular Opportunities

- Chi Theta Pi (pre-health professions organization)
- P.R.A.I.R.I.E. (Prairie Restoration and Initiative for Research, Inspiration, and Earthkeeping)
- Emergency Medical Services Squad
- Math Club
- Omega Theta Kappa (science education)

## Technical Resources

- Molecular Modeling Software
- Laboratory simulations
- Biology and chemistry laboratory support
- Statistical analysis tools
- A.D.A.M. Interactive Anatomy
- Maple 9.5
- RasMol
- Chem Sketch
- LaTeX
- MicroCalc 7.0
- DPGraph 2000
- SigmaPlot 9.0 ®

## 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
- Health professional
- Laboratory technician
- Mathematician
- Pharmacist
- Physical therapist
- Physicist
- Physician
- Researcher
- Statistician
- Science Educator
- Wildlife biologist



### Faculty

**Dennis Flentge**, *Chairman*, 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.

**Donald Baumann**, Professor 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 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.

**Xidong Chen**, Assistant Professor of Physics. *Education*: B.S., Shandong University, China, 1989; M.S., Institute of Physics, Chinese Academy of Sciences, 1992; Ph.D., University of Illinois, Urbana-Champaign, 1997; Postdoctoral Research Scientist, Argonne National Laboratory, 1997-2001. At Cedarville since 2001.

**Leroy Eimers**, Professor of Physics and Mathematics. *Education*: B.S., Hobart College, 1963; M.S., Syracuse University, 1966; Ph.D., Syracuse University, 1970. At Cedarville since 1981.

**Darrin Frey**, Associate Professor of Mathematics. *Education*: B.S., University of Nebraska, 1989; Ph.D., University of Michigan, 1995. At Cedarville since 1997.

**Sarah Gilchrist**, Assistant Professor of Mathematics. *Education*: B.S., Cedarville University, 2000; M.A., Wright State University, 2004. At Cedarville since 2004

**Steven Gollmer**, Associate 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.

**Larry Helmick**, Senior Professor 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.

**Aaron Hutchinson**, Assistant Professor of Chemistry. *Education*: B.A., Cedarville University, 1998; A.B.D., University of Kentucky, 1998-2003. At Cedarville University since 2003.

**William Jones**, Assistant Professor of Biology. *Education*: B.A., Cedarville University, 1981; M.A., University of Akron, 1999. Ph.D. candidate, The Ohio State University. At Cedarville since 1999.

**Heather Kuruvilla**, Associate Professor of Biology. *Education*: B.S., Houghton College, 1992; Ph.D., State University of New York at Buffalo, 1997. At Cedarville since 1997.

**Dali Luo**, Associate Professor of Mathematics. *Education*: B.S., South China Institute of Technology, 1982; M.S., Claremont Graduate School, 1988; Ph.D., Washington State University, 1992; M.A., Grand Rapids Baptist Seminary, 2001; Th.M., Calvin Theological Seminary, 2003. At Cedarville, 1992-1998, 2001-present.

**Mark McClain**, Associate 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.

**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.

**Brandy Cowing Phipps**, Assistant Professor of Biology. *Education*: B.S., University of Florida, 1998; M.S., Virginia Polytechnic Institute and State University, 2003; Ph.D., Virginia Polytechnic Institute and State University, 2004. At Cedarville since 2003.

**Terry Phipps**, Professor of Biology. *Education*: B.S., Cedarville University, 1970; M.S., Wright State University, 1974; Ph.D., The Ohio State University, 1987. At Cedarville since 1978.

**Kevin Roper**, Associate Professor of Mathematics. *Education*: B.S., Southampton 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, 2000-present.

**Alicia Schaffner**, Associate Professor of Biology. *Education*: B.S., Purdue University, 1992; Ph.D., The Ohio State University, 2000. At Cedarville since 2000.

**Robert Schumacher**, Assistant Professor of Mathematics and Computer Science. *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.

**Jennifer Secor**, Instructor of Mathematics. *Education*: B.S., Cedarville University, 2001; M.A., Miami University, 2003; Additional graduate study, Aubury University, 2003-2005. At Cedarville since 2005.

**John Silvius**, Senior Professor 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.

**Dennis Sullivan**, Professor of Biology. *Education*: B.S., Youngstown State University, 1974; M.D., Case Western Reserve University, 1978; Diplomate, American Board of Surgery, 1985; Fellow, American College of Surgeons, 1996. M.A. (Ethics), Trinity International University, 2004. At Cedarville since 1996.

**John Whitmore**, Associate 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.

**Cynthia Wingert**, Biology Laboratory Instructor. *Education*: B.A., Cedarville University, 2001; M.S., Wright State University, 2005. At Cedarville 2001-2003, 2005-present.

**Otis Wright**, Associate 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.

**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.

## 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 hours including:

<i>Biology Core Requirements</i> .....	36
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
BIO-2250 Cell Biology .....	4
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry.....	4
*BIO-4800 Senior Seminar–Biology .....	1
Biology electives.....	8
<i>Departmental requirements</i> .....	17
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510 Organic Chemistry I.....	5
GMTH-1030 Precalculus .....	4

\*Capstone Course

### Biology Major (B.A.) Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	42-50
Biology Major Requirements .....	53
Electives .....	25-33
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 182 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.



Students interested in environmental biology will benefit through interaction with Dr. John Silvius, professor of biology.

### Suggested Four-Year Curriculum for a Major in Biology–B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
ENG-1400 Composition .....	3
GMTH-1030 Precalculus.....	4
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective .....	1
<b>Total.....</b>	<b>31</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
BIO-2250 Cell Biology.....	4
CHEM-3510 Organic Chemistry I .....	5
COM-1100 Fundamentals of Speech.....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
Literature Elective .....	3
<b>Total.....</b>	<b>34</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
Biology Electives.....	8
Humanities Elective .....	3
Electives.....	10
<b>Total.....</b>	<b>33</b>

#### Fourth year:

BIO-4800 Senior Seminar–Biology .....	1
History Elective .....	3
Social Science/Global Awareness Elective.....	3
Electives.....	23
<b>Total.....</b>	<b>32</b>

A complete description of the general education requirements is found on page 18

## 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.

Course requirements involve 78 hours including:

<i>Biology Requirements</i> .....	46
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
BIO-2250 Cell Biology .....	4
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
BIO-3800 Biological Research .....	2
*BIO-4800 Senior Seminar–Biology .....	1
Biology electives .....	16
<i>Departmental Requirements</i> .....	32
CHEM-1110, 1120 General Chemistry I, II .....	8
CHEM-3510 Organic Chemistry I .....	5
CHEM-3525 Organic Chemistry II for Biologists .....	4
MATH-1710 Calculus I .....	5
PHYS-1010, 1020 College Physics I, II .....	10

\*Capstone Course

### Biology Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	42
Biology Major Requirements .....	78
Electives .....	8
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

Students interested in careers in **environmental biology** should refer to page 199 for the requirements of that special program.

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 200 for a list of courses generally recommended for admission to professional colleges.



Modern laboratories with extensive equipment resources are invaluable tools in the learning process.

### Suggested Four-Year Curriculum for a Major in Biology–B.S.

*First year:*

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I, II .....	8
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective .....	1
<b>Total .....</b>	<b>33</b>

*Second year:*

BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
IBIO-2250 Cell Biology .....	4
CHEM-3510 Organic Chemistry I .....	5
CHEM-3525 Organic Chemistry II for Biologists .....	4
MATH-1710 Calculus I .....	5
History Elective .....	3
<b>Total .....</b>	<b>28</b>

*Third year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
BIO-3800 Biological Research .....	2
GSS-1100 Politics and American Culture .....	3
PHYS-1010, 1020 College Physics I, II .....	10
Biology Electives .....	4
<b>Total .....</b>	<b>33</b>

*Fourth year:*

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-4800 Senior Seminar–Biology .....	1
Biology Electives .....	12
Humanities Elective .....	3
Literature Elective .....	3
Social Science/Global Awareness Elective .....	3
Electives .....	8
<b>Total .....</b>	<b>34</b>

## 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 52.5 semester hours including:

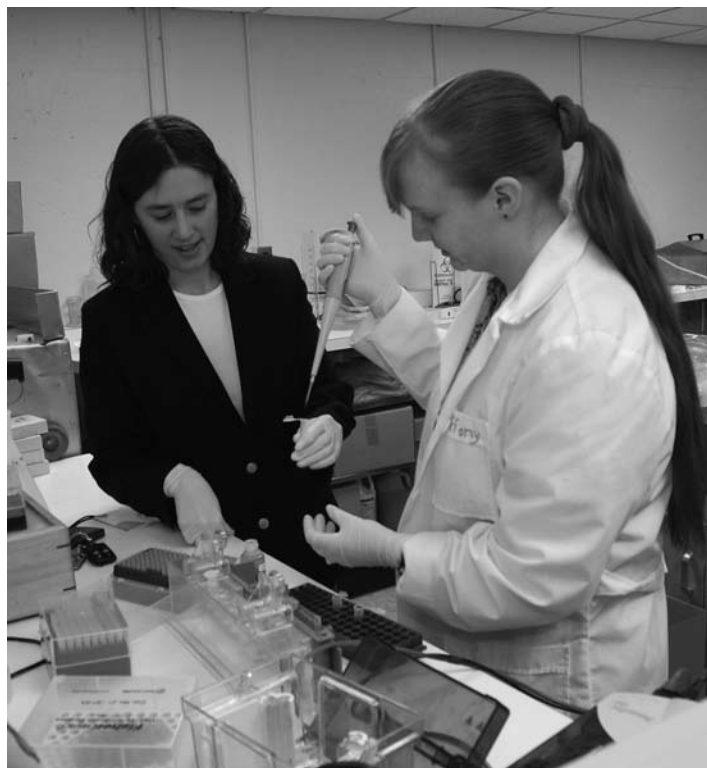
<i>Chemistry Requirements</i> .....	<b>31</b>
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-2210 Analytical Chemistry I.....	3
CHEM-2800 Introduction to Research in Chemistry.....	1
CHEM-3510, 3520 Organic Chemistry I, II.....	10
CHEM-4310 Physical Chemistry I.....	4
*CHEM-4800 Senior Seminar–Chemistry.....	1
Chemistry electives.....	4
<i>Departmental Requirements</i> .....	<b>21.5</b>
BIO-1000 Principles of Biology.....	3.5
(or BIO-1110 Introduction to Biology.....)	(4)
MATH-1710, 1720 Calculus I, II.....	10
PHYS-2110, 2120 General Physics I, II.....	8
*Capstone Course	

### Chemistry Major (B.A.) Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	42-50
Chemistry Major Requirements.....	52.5
Electives.....	25.5-34
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

Students anticipating **graduate study** should consider completing the Bachelor of Science in chemistry curriculum.

Students preparing for medicine, dentistry, osteopathy, or any of the health professions should refer to page 200 for a list of courses generally recommended for admission to professional colleges.



Well-equipped chemistry labs enhance the student's ability to interpret laboratory findings and data.

### Suggested Four-Year Curriculum for a Major in Chemistry–B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1110, 1120 General Chemistry I, II.....	8
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
CHEM-2210 Analytical Chemistry I.....	3
CHEM-2800 Introduction to Research in Chemistry.....	1
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PHYS-2110, 2120 General Physics I, II.....	8
Literature Elective.....	3
Electives.....	5
<b>Total.....</b>	<b>32</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
BIO-1000 Principles of Biology.....	3.5
CHEM-3510, 3520 Organic Chemistry I, II.....	10
CHEM-4310 Physical Chemistry I.....	4
Humanities Elective.....	3
Social Science/Global Awareness Elective.....	3
Electives.....	5
<b>Total.....</b>	<b>32.5</b>

#### Fourth year:

CHEM-4800 Senior Seminar–Chemistry.....	1
Chemistry Electives.....	4
History Elective.....	3
Electives.....	24
<b>Total.....</b>	<b>32</b>

A complete description of the general education requirements is found on page 18

## 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 68.5 semester hours including:

<i>Chemistry Requirements</i> .....	47
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-2210, 2220 Analytical Chemistry I, II.....	6
CHEM-2800 Introduction to Research in Chemistry.....	1
CHEM-3510, 3520 Organic Chemistry I, II.....	10
CHEM-3410 Inorganic Chemistry.....	3
CHEM-4310, 4320 Physical Chemistry I, II.....	8
*CHEM-4800 Senior Seminar–Chemistry.....	1
Chemistry electives.....	7
Departmental Elective.....	3
<i>Departmental Requirements</i> .....	21.5
BIO-1000 Principles of Biology.....	3.5
(or BIO-1110 Introduction to Biology.....)	4
MATH-1710, 1720 Calculus I, II.....	10
PHYS-2110, 2120 General Physics I, II.....	8

\*Capstone Course

### Chemistry Major (B.S.) Curriculum Summary:

Proficiency Requirements.....	0-5
Other General Education Requirements.....	42
Chemistry Major Requirements.....	68.5
Electives.....	17.5-18
Total (minimum, not including proficiencies).....	128



Cedarville's rigorous academic programs prepare students for the career or graduate program of choice.

### Suggested Four-Year Curriculum for a Major in Chemistry–B.S.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1110, 1120 General Chemistry I, II.....	8
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total</b> .....	<b>32</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BIO-1000 Principles of Biology.....	3.5
CHEM-2210, 2220 Analytical Chemistry I, II.....	6
CHEM-2800 Introduction to Research in Chemistry.....	1
GSS-1100 Politics and American Culture.....	3
HUM-1400 Introduction to the Humanities.....	3
PHYS-2110, 2120 General Physics I, II.....	8
Literature Elective.....	3
<b>Total</b> .....	<b>33.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CHEM-3510, 3520 Organic Chemistry I, II.....	10
CHEM-4310, 4320 Physical Chemistry I, II.....	8
History Elective.....	3
Social Science/Global Awareness Elective.....	3
Electives.....	4
<b>Total</b> .....	<b>32</b>

#### Fourth year:

CHEM-3410 Inorganic Chemistry.....	3
CHEM-4800 Senior Seminar–Chemistry.....	1
Chemistry Electives.....	7
Department Elective.....	3
Humanities Elective.....	3
Electives.....	13.5
<b>Total</b> .....	<b>30.5</b>

## 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 93 semester hours including:

<i>Science and Math Requirements</i> .....	67
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology .....	4
BIO-3710 Biochemistry.....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-2210, 2220 Analytical Chemistry I, II .....	6
CHEM-3510, 3520 Organic Chemistry I, II .....	10
FORS-3XXX Forensic Science.....	4
*FORS-4800 Forensic Science Capstone .....	1
GSS-3630 Data Analysis and Research Methodology .....	4
MATH-1710, 1720 Calculus I, II.....	10
PHYS-2110, 2120 General Physics I, II.....	8
<i>Criminal Justice Requirements</i> .....	18
CRJU-1310 Introduction to Criminal Justice.....	3
CRJU-3320 Criminal Investigation .....	3
CRJU-3350 Criminal Law .....	3
CRJU-3390 Criminal Evidence.....	3
CRJU-3400 Criminal Procedure .....	3
GSS-4990 Internship .....	3
<i>Science Electives selected from</i> .....	8
BIO-3300 Genetics .....	4
BIO-4300 Molecular Biology .....	4
CHEM-4310 Physical Chemistry I.....	4
CHEM-4320 Physical Chemistry II.....	4

\*Capstone Course

### Forensic Science Major (B.S.) Curriculum Summary

Proficiency Requirements.....	0-5
General Education Requirements .....	42
Forensic Science Major Requirements.....	93
<b>Total (minimum, not including proficiency) .....</b>	<b>135</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Forensic-B.S.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2250 Cell Biology.....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
ENG-1400 Composition .....	3
CRJU-1310 Introduction to Criminal Justice .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective .....	1
<b>Total.....</b>	<b>34</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
CHEM-2210, 2220 Analytical Chemistry I, II.....	6
COM-1100 Fundamentals of Speech.....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-1710, 1720 Calculus I, II.....	10
Literature Elective .....	3
<b>Total.....</b>	<b>34</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-3710 Biochemistry .....	4
CHEM-3510, 3510 Organic Chemistry I, II .....	10
CRJU-3320 Criminal Investigation.....	3
CRJU-3350 Criminal Law .....	3
FORS-3XXX Forensic Science .....	4
GSS-3630 Data Analysis & Research Methodology .....	4
Humanities Elective .....	3
<b>Total.....</b>	<b>35</b>

#### Fourth year:

CRJU-3390 Criminal Evidence .....	3
CRJU-3400 Criminal Procedure .....	3
FORS-4800 Forensic Science Capstone.....	1
GSS-4990 Internship .....	3
PHYS- 2110, 2120 General Physics I, II.....	8
History Elective .....	3
Social Science/Global Awareness Elective.....	3
Science Electives.....	8
<b>Total.....</b>	<b>32</b>

A complete description of the general education requirements is found on page 18

### Molecular and Cellular Biology

The **Bachelor of Science degree with a major in molecular and cellular biology** will prepare students for graduate-level training in the context of a broad biological background based in a biblical worldview. This degree will allow our 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 83 hours including:

<i>Biology Requirements</i> .....	70
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 .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
BIO-3800 Biological Research .....	2
(or BIO-3810 Biology Research Internship .....	2)
BIO-4210 Advanced Cell Biology .....	4
BIO-4300 Molecular Biology of the Cell .....	4
BIO-4800 Senior Seminar–Biology .....	1
CHEM-1110, 1120 General Chemistry I, II .....	8
CHEM-3510 Organic Chemistry I .....	5
CHEM-3525 Organic Chemistry II for Biologists .....	4
MATH-1710 Calculus I .....	5
PHYS-1010, 1020 College Physics I, II .....	10
<i>Biology Electives selected from the following</i> .....	13
BIO-2210 Microbiology .....	4
BIO-4XXX Eukaryotic Gene Regulation .....	3
BIO-4220 Signal Transduction .....	3
BIO-4350 Immunology .....	4
BIO-4750 Nutrition and Metabolism .....	4
Any 3000 or 4000-level Biology electives .....	6

\*Capstone Course

#### Molecular & Cellular Biology Major (B.S.) Curriculum Summary

Proficiency Requirements .....	0-5
General Education Requirements .....	42
Molecular & Cellular Biology Major Requirements .....	83
Electives .....	3
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

#### Suggested Four-Year Curriculum for a Major in Molecular and Cellular Biology–B.S.

*First year:*

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I, II .....	8
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective .....	1
<b>Total .....</b>	<b>33</b>

*Second year:*

BIO-2250 Cell Biology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology .....	3
CHEM-3510 Organic Chemistry I .....	5
CHEM-3525 Organic Chemistry II for Biologists .....	4
MATH-1710 Calculus I .....	5
GSS-1100 Politics and American Culture .....	3
History Elective .....	3
<b>Total .....</b>	<b>31</b>

*Third year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry .....	4
BIO-3800 Biological Research .....	2
(or BIO-3810 Biology Research Internship .....	2)
BIO-4210 Advanced Cell Biology .....	4
PHYS-1010, 1020 College Physics I, II .....	10
Electives .....	3
<b>Total .....</b>	<b>33</b>

*Fourth year:*

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-4300 Molecular Biology of the Cell .....	4
BIO-4800 Senior Seminar–Biology .....	1
Biology Electives .....	13
Humanities Elective .....	3
Literature Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total .....</b>	<b>31</b>

## 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:

<i>Mathematics Core Requirements</i> .....	42
CS-1210 C++ Programming.....	2
MATH-1710, 1720, 2710 Calculus I, II, III.....	13
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2210 Logic and Methods of Proof.....	3
MATH-2740 Differential Equations.....	3
MATH-2800 LaTeX for Technical Documents.....	1
MATH-3610 Linear Algebra.....	3
MATH-3800 Research Methods in Mathematics.....	1
*MATH-4800 Capstone Experience in Mathematics.....	3
PHYS-2110, 2120, 2130 General Physics I, II, III.....	10
<i>Electives (meeting the following criteria)</i> .....	12
<i>Applied courses (at least three hours from the following applied courses)</i> .....	3
MATH-3110, 4110 Probability and Statistics I, II.....	6
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3640 Introduction to Operations Research.....	3
MATH-3750 Introduction to Dynamical Systems.....	3
MATH-3760 Numerical Analysis.....	3
MATH-4210 Mathematical Methods for Physicists.....	3
MATH-4880 Topics in Mathematics.....	1-3
MATH-4900 Independent Study in Mathematics.....	1-3
<i>Theoretical Courses (at least three hrs. from the following)</i> .....	3
MATH-3500 Number Theory.....	3
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
MATH-3710 Advanced Calculus.....	3
MATH-3740 Complex Variables.....	3
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
MATH-4450 Topology.....	3
MATH-4610, 4620 Abstract Algebra I, II.....	6
MATH-4710, 4720 Real Variables I, II.....	6
MATH-4880 Topics in Mathematics.....	1-3
MATH-4900 Independent Study in Mathematics.....	1-3

\*Capstone Course

### Mathematics Major (B.A.) Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	45.5-53.5
Mathematics Major Requirements.....	54
Electives.....	20.5-28.5
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Mathematics–B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming.....	2
ENG-1400 Composition.....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-1710, 1720 Calculus I, II.....	10
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2800 LaTeX for Technical Documents.....	1
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>33</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
GSS-1100 Politics and American Culture.....	3
MATH-2210 Logic and Methods of Proof.....	3
MATH-2710 Calculus III.....	3
MATH-2740 Differential Equations.....	3
MATH-3800 Research Methods in Mathematics.....	1
PHYS-2110, 2120 General Physics I, II.....	8
Literature Elective.....	3
Electives.....	3
<b>Total.....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
BIO-1000 Principles of Biology.....	3.5
MATH-3610 Linear Algebra.....	3
PHYS-2130 General Physics III.....	2
Humanities Elective.....	3
Mathematics Electives.....	6
Social Science/Global Awareness Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>33.5</b>

#### Fourth year:

MATH-4800 Capstone Experience in Mathematics.....	3
History Elective.....	3
Mathematics Electives.....	6
Electives.....	18
<b>Total.....</b>	<b>30</b>



A complete description of the general education requirements is found on page 18

## 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:

<i>Mathematics Core Requirements</i> .....	48
CS-1210 C++ Programming.....	2
MATH-1710, 1720, 2710 Calculus I, II, III.....	13
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2210 Logic and Methods of Proof.....	3
MATH-2740 Differential Equations.....	3
MATH-2800 LaTeX for Technical Documents.....	1
MATH-3610 Linear Algebra.....	3
MATH-3800 Research Methods.....	1
MATH- 4610 Abstract Algebra I.....	3
MATH-4710 Real Variables I.....	3
*MATH-4800 Capstone Experience in Mathematics.....	3
PHYS-2110, 2120, 2130 General Physics I, II, III.....	10
<i>Electives (meeting the following criteria)</i> .....	21
<i>Applied courses (at least six hours from the following applied courses)</i> .....	6-15
MATH-3110, 4110 Probability and Statistics I, II.....	6
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3640 Introduction to Operations Research.....	3
MATH-3750 Introduction to Dynamical Systems.....	3
MATH-3760 Numerical Analysis.....	3
MATH-4210 Mathematical Methods for Physicists.....	3
MATH-4880 Topics in Mathematics.....	1-3
MATH-4900 Independent Study in Mathematics.....	1-3
<i>Theoretical Courses (at least six hours from the following theoretical courses)</i> .....	6-15
MATH-3500 Number Theory.....	3
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
MATH-3710 Advanced Calculus.....	3
MATH-3740 Complex Variables.....	3
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
MATH-4450 Topology.....	3
MATH-4620 Abstract Algebra II.....	3
MATH-4720 Real Variables II.....	3
MATH-4880 Topics in Mathematics.....	1-3
MATH-4900 Independent Study in Mathematics.....	1-3

\*Capstone Course

### Mathematics Major (B.S.) Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	45.5
Mathematics Major Requirements.....	69
Electives.....	13.5
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Mathematics–B. S.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming.....	2
ENG-1400 Composition.....	3
HUM-1400 Introduction to the Humanities.....	3
MATH-1710, 1720 Calculus I, II.....	10
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2800 LaTeX for Technical Documents.....	1
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>33</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
GSS-1100 Politics and American Culture.....	3
MATH-2210 Logic and Methods of Proof.....	3
MATH-2710 Calculus III.....	3
MATH-2740 Differential Equations.....	3
MATH-3800 Research Methods in Mathematics.....	1
PHYS-2110, 2120 General Physics I, II.....	8
Literature Elective.....	3
Electives.....	3
<b>Total.....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
BIO-1000 Principles of Biology.....	3.5
MATH-3610 Linear Algebra.....	3
MATH-4610 Abstract Algebra I.....	3
MATH-4710 Real Variables I.....	3
PHYS-2130 General Physics III.....	2
Humanities Elective.....	3
Mathematics Electives.....	6
Electives.....	9
<b>Total.....</b>	<b>30.5</b>

#### Fourth year:

MATH-4800 Capstone Experience in Mathematics.....	3
History Elective.....	3
Mathematics Electives.....	15
Social Science/Global Awareness Elective.....	3
Electives.....	9
<b>Total.....</b>	<b>33</b>

## Physics – Bachelor of Arts

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. Our students must demonstrate proficiency in the general physics sequence in order to advance into 3000- and 4000-level courses.

Course requirements involve 53.5 semester hours:

<i>Physics Core Requirements</i> .....	<b>34</b>
*PHYS-2110, 2120, 2130 General Physics I, II, III .....	10
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-3310 Theoretical Mechanics I .....	3
PHYS-3410 Electromagnetic Theory I.....	3
PHYS-3510 Modern Physics .....	3
PHYS-3800 Research Methods in Physics .....	1
PHYS-4110 Advanced Physics Lab.....	2
**PHYS-4800 Senior Seminar–Physics.....	1
<i>Physics Electives (3 courses) selected from the following</i> .....	<b>9</b>
EGEE-2050 Circuits and Instrumentation .....	4
PHYS-3330 Acoustics .....	3
PHYS-3350 Thermal Physics .....	3
PHYS-4210 Mathematical Methods for Physicists.....	3
PHYS-4310 Theoretical Mechanics II .....	3
PHYS-4410 Electromagnetic Theory II.....	3
PHYS-4450 Optics.....	3
PHYS-4520 Quantum Mechanics I.....	3
PHYS-4530 Quantum Mechanics II .....	3
PHYS-4550 Solid State Physics .....	3
PHYS-4880 Topics in Physics.....	1-3
<i>Departmental Requirements</i> .....	<b>19.5</b>
CHEM-1050 Chemistry for Engineers .....	3.5
MATH-1710, 1720, 2710 Calculus I, II, III.....	13
MATH-2740 Differential Equations .....	3

\*All students must earn at least a C+ in these courses.

\*\*Capstone Course

### Physics Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	45.5-53.5
Physics Major Requirements.....	53.5
Electives .....	21-29
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Physics

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1050 Chemistry for Engineers.....	3.5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life .....	1
PHYS-2110 General Physics I .....	4
Physical Education Activity Elective.....	1
<b>Total</b> .....	<b>31.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BIO-1000 Principles of Biology .....	3.5
GSS-1100 Politics and American Culture .....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations .....	3
PHYS-2120, 2130 General Physics II, III.....	6
PHYS-3310 Theoretical Mechanics .....	3
Electives.....	5
<b>Total</b> .....	<b>32.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
HUM-1400 Introduction to the Humanities.....	3
PHYS-3110 Intermediate Physics Laboratory.....	2
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-3800 Research Methods in Physics.....	1
Literature Elective .....	3
Physics Electives .....	3
Electives.....	12
<b>Total</b> .....	<b>31</b>

#### Fourth year:

PHYS-3510 Modern Physics .....	3
PHYS-4110 Advanced Physics Laboratory.....	2
PHYS-4800 Senior Seminar–Physics.....	1
History Elective .....	3
Humanities Elective .....	3
Physics Electives .....	6
Social Science/Global Awareness Elective.....	3
Electives.....	12
<b>Total</b> .....	<b>33</b>

A complete description of the general education requirements is found on page 18

## 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. Our students must demonstrate proficiency in the general physics sequence in order to advance into 3000- and 4000-level courses.

Course requirements involve 68.5 semester hours including:

<i>Physics Core Requirements</i> .....	34
*PHYS-2110, 2120, 2130 General Physics I, II, III .....	10
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-3310 Theoretical Mechanics I .....	3
PHYS-3350 Thermal Physics .....	3
PHYS-3410 Electromagnetic Theory I.....	3
PHYS-3510 Modern Physics .....	3
PHYS-3800 Research Methods in Physics .....	1
PHYS-4110 Advanced Physics Lab.....	2
PHYS-4210 Mathematical Methods for Physicists .....	3
PHYS-4520 Quantum Mechanics I.....	3
PHYS-4800 Physics Senior Seminar .....	1
<i>Electives (selected from PHYS-3000 and MATH-4000-level courses)</i> .....	9
PHYS-3330 Acoustics.....	3
PHYS-4310 Theoretical Mechanics II .....	3
PHYS-4410 Electromagnetic Theory II .....	3
PHYS-4450 Optics.....	3
PHYS-4530 Quantum Mechanics II .....	3
PHYS-4550 Solid State Physics .....	3
PHYS-4880 Topics in Physics.....	1-3
<i>Departmental Requirements</i> .....	25.5
CHEM-1050 Chemistry for Engineers .....	3.5
CS-1210 C++ Programming .....	2
EGEE-2050 Circuits and Instrumentation.....	4
MATH-1710, 1720, 2710 Calculus I, II, III .....	13
MATH-2740 Differential Equations .....	3

\*All Students must earn at least a C+ in these courses.

### BS Physics Curriculum Summary

Proficiency requirements .....	0-6
Other General Education requirements .....	48.5
Physics major requirements .....	68.5
Electives .....	5-11
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a BS major in Physics

*First year:*

BEGE-1710 The Christian Life.....	3
BEGE-1720 Spiritual Formation .....	3
CHEM-1050 Chemistry for Engineers .....	3.5
COM-1100 Speech .....	3
CS-1210 C++ Programming .....	2
ENG-1400 English Composition .....	3
MATH-1710, 1720 Calculus I,II .....	10
PEF-1990 P.A.C.L.....	2
PHYS-2110 General Physics I.....	4
<b>Total.....</b>	<b>33.5</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BIO-1000 Principles of Biology .....	3.5
EGEE-2050 Circuits and Instrumentation .....	4
GSS-1100 Politics and American Culture .....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations.....	3
PHYS-2120, 2130 General Physics II, III.....	6
PHYS-3310 Theoretical Mechanics I .....	3
<b>Total.....</b>	<b>31.5</b>

*Third year:*

BEGE-3750 Worldview Development .....	2
BEGE-3760 Theological Reflections.....	2
HUM-1400 Introduction to the Humanities.....	3
Literature elective.....	3
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-3350 Thermal Physics .....	3
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-3510 Modern Physics .....	3
PHYS-3800 Research Methods in Physics.....	1
Physics electives.....	3
Electives.....	6
<b>Total.....</b>	<b>31</b>

*Fourth year:*

PHYS-4110 Advanced Physics Lab .....	2
PHYS-4210 Mathematical Methods for Physicists.....	3
PHYS-4520 Quantum Mechanics I.....	3
PHYS-4800 Physics Senior Seminar.....	1
Global awareness .....	3
History elective.....	3
Humanities elective.....	3
Physics electives.....	6
Social science elective.....	3
Electives.....	5
<b>Total.....</b>	<b>32</b>

## Teacher Education Licensure Programs Adolescent and Young Adult

The department of science and mathematics joins with the education department to offer adolescent/young adult licensure programs in the following areas:

- 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:

<i>Teacher Education</i> .....	39
COM-2300 Voices of Diversity.....	3
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching.....	5
EDSE-4450 Adol/Young Adult Clinical Experience.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-2000 Teaching Children with Exceptionalities .....	2
EDSP-2050 Special Education Field Experience.....	1
EDSP-4000 Principles of Inclusion.....	1
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools .....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience .....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4500 Philosophy of Education.....	2

Specific information regarding admission to the teacher education program and course descriptions are located in the education department section in this catalog.

## Life Science Education – Bachelor of Arts

Course requirements involve 60.5 semester hours including:

<i>Biology Core Requirements</i> .....	32
BIO-1110 Introduction to Biology.....	4
BIO-1120 General Zoology.....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
BIO-2250 Cell Biology.....	4
BIO-3300 Genetics.....	4
BIO-3710 Biochemistry.....	4
*BIO-4800 Senior Seminar–Biology .....	1
<i>Biology Electives selected from the following</i> .....	4
BIO-3410 Invertebrate Zoology.....	3
BIO-3450 Human Structure and Function I.....	3
BIO-3460 Human Structure and Function II.....	3
BIO-3510 Plant Physiology.....	3
BIO-3520 Plant Taxonomy.....	3
BIO-3610 Environmental Physiology and Ecology .....	4
BIO-4300 Molecular Biology of the Cell.....	4
BIOA-3600 Topics in Environmental Biology.....	4
<i>Physical Science/Mathematics/Science Methods</i> .....	28.5
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510 Organic Chemistry I.....	5
GSCI-1010 Principles of Earth Science.....	3.5
GMTH-1030 Precalculus.....	4
PHYS-1010 College Physics I.....	5
SCED-3120 Teaching Science.....	3
<i>Teacher Education</i> .....	39

\*Capstone Course

## Life Science Education Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	39-47
Life Science Education Major Requirements.....	60.5
Teacher Education Requirements .....	39
<b>Total (minimum, not including proficiency).....</b>	<b>138.5</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Life Science Education–B.A.

#### First year

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition.....	3
GMTH-1030 Precalculus.....	4
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32</b>

#### Second year

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BIO-2500 General Botany.....	4
BIO-2600 General Ecology.....	3
BIO-2250 Cell Biology .....	4
CHEM-3510 Organic Chemistry I.....	5
COM-1100 Fundamentals of Speech.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology .....	3
GSS-1100 Politics and American Culture .....	3
<b>Total.....</b>	<b>39</b>

#### Third year

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-3300 Genetics .....	4
BIO-3710 Biochemistry.....	4
GSCI-1010 Principles of Earth Science.....	3.5
HUM-1400 Introduction to the Humanities.....	3
PHYS-1010 College Physics I .....	5
Biology Electives.....	4
Literature Elective .....	3
Social Science/Global Awareness Elective.....	3
<b>Total.....</b>	<b>33.5</b>

#### Fourth year

BIO-4800 Senior Seminar–Biology.....	1
COM-2300 Voices of Diversity .....	3
EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching.....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-4000 Principles of Inclusion .....	1
EDUC-4500 Philosophy of Education.....	2
SCED-3120 Teaching Science.....	3
History Elective .....	3
<b>Total .....</b>	<b>34-36</b>

A complete description of the general education requirements is found on page 18

## Mathematics Education – Integrated (Bachelor of Arts)

Course requirements involve 59 semester hours including:

<i>Mathematics Core Requirements</i> .....	42
MATH-1710 Calculus I.....	5
MATH-1720 Calculus II.....	5
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2210 Logic and Methods of Proof.....	3
MATH-2710 Calculus III.....	3
*MATH-3050 Algebraic Structures for Secondary Education.....	4
MATH-3110 Probability and Statistics I.....	3
MATH-3800 Research Methods in Mathematics.....	1
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
**MATH-4800 Capstone Experience in Mathematics.....	3
<i>Mathematics Electives</i> .....	6
<i>One course selected from the following</i> .....	3
MATH-3550 Discrete Mathematics: Graph Theory.....	3
MATH-3560 Discrete Mathematics: Combinatorics.....	3
<i>Computer/Math Methods/Physics</i> .....	17
CS-1210 C++ Programming.....	2
MATH-2800 LaTeX for Technical Documents.....	1
MTED-3110 Clinical Teaching in Mathematics.....	1
MTED-3120 Teaching Mathematics.....	3
PHYS-2110 General Physics I.....	4
PHYS-2120 General Physics II.....	4
PHYS-2130 General Physics III.....	2
<i>Teacher Education</i> .....	39

\*A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and MATH-4610.

\*\*Capstone Course

### Mathematics Education – Integrated Major (B.A.) Summary

Proficiency Requirements.....	0-5
Mathematics Education – Integrated Major Requirements.....	60
General Education Requirements.....	42.5-50.5
Teacher Education Requirements.....	39
<b>Total (minimum, not including proficiency).....</b>	<b>141.5</b>



Professors work to provide an environment that is conducive for learning and spiritual growth.

### Suggested Four-Year Curriculum for a Major in Mathematics Education (Integrated) –B.A.

<i>First year:</i>	
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology.....	3.5
COM-1100 Fundamentals of Speech.....	3
CS-1210 C++ Programming.....	2
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I, II.....	10
MATH-1990 Beautiful Math Structures and Thinking.....	3
MATH-2800 LaTeX for Technical Documents (computer elective).....	1
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>34.5</b>
<i>Second year:</i>	
BEGE-2730 Old Testament Literature.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
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
PHYS-2110, 2120 General Physics I, II.....	8
<b>Total.....</b>	<b>32</b>
<i>Third year:</i>	
BEGE-2740 New Testament Literature.....	3
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
HUM-1400 Introduction to the Humanities.....	3
MATH-3110 Probability and Statistics I.....	3
MATH-4410 Euclidean and Non-Euclidean Geometry.....	3
MTED-3110 Clinical Teaching in Mathematics.....	1
Discrete Mathematics Elective.....	3
MATH-3XXX or 4XXX Elective.....	3
PHYS-2130 General Physics III.....	2
Literature Elective.....	3
Social Science Elective.....	3
<b>Total.....</b>	<b>35</b>
<i>Fourth year:</i>	
COM-2300 Voices of Diversity.....	3
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching.....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10
EDSP-4000 Principles of Inclusion.....	1
EDUC-4500 Philosophy of Education.....	2
MATH-4800 Capstone Experience in Mathematics.....	3
MTED-3120 Teaching Mathematics.....	3
History Elective.....	3
<b>Total.....</b>	<b>36</b>

## Physical Science Education (Bachelor of Arts)

Course requirements involve 71 semester hours including:

<i>Physical Science Core</i> .....	66
BIO-1110 Introduction to Biology.....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510 Organic Chemistry I.....	5
CHEM-3710 Biochemistry.....	4
ESCI-1110 Introduction to Physical Geology.....	4
ESCI-1120 Historical Geology.....	4
ESCI-2310 Introduction to Oceanography.....	4
ESCI-2510 Introductory Astronomy.....	4
MATH-1710, 1720 Calculus I, II.....	10
MATH-2740 Differential Equations.....	3
PHYS-2110, 2120, 2130 General Physics I, II, III.....	10
PHYS-3510 Modern Physics.....	3
SCED-3120 Teaching Science.....	3
<i>Physics Electives selected from the following</i> .....	3
PHYS-3110 Intermediate Physics Lab.....	2
PHYS-3310 Theoretical Mechanics I.....	3
PHYS-3350 Thermal Physics.....	3
PHYS-4110 Advanced Physics Lab.....	2
PHYS-4520 Quantum Mechanics I.....	3
<i>Research Methods selected from the following</i> .....	1
CHEM-2800 Introduction to Research in Chemistry.....	1
PHYS-3800 Research Methods in Physics.....	1
<i>Senior Capstone Experience selected from the following</i> .....	1
*CHEM-4800 Senior Seminar—Chemistry.....	1
*PHYS-4800 Senior Seminar—Physics.....	1

Teacher Education .....39

\*Capstone Course

### Physical Science Education Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	39-47
Physical Science Education Major Requirements.....	71
Teacher Education Requirements.....	39
<b>Total (minimum, not including proficiency).....</b>	<b>149</b>



Students gain an understanding of creation science through instructional field trips with professors.

### Suggested Four-Year Curriculum for a Major in Physical Science Education - B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1110, 1120 General Chemistry I,II.....	8
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition.....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life.....	1
PHYS-2110 General Physics I.....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>37</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BIO-1110 Introduction to Biology.....	4
CHEM-3510 Organic Chemistry I.....	5
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
ESCI-2310 Introduction to Oceanography.....	4
GSS-1100 Politics and American Culture.....	3
MATH-2740 Differential Equations.....	3
PHYS-2120, 2130 General Physics II, III.....	6
<b>Total.....</b>	<b>42</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CHEM-3710 Biochemistry.....	4
ESCI-1110 Introduction to Physical Geology.....	4
ESCI-1120 Historical Geology.....	4
ESCI-2510 Introduction to Astronomy.....	4
HUM-1400 Introduction to the Humanities.....	3
PHYS-3510 Modern Physics.....	3
PHYS-3800 Research Methods in Physics.....	1
(or CHEM-2800 Introduction to Research in Chemistry.....)	1
History Elective.....	3
Literature Elective.....	3
Social Science Elective.....	3
<b>Total.....</b>	<b>36</b>

#### Fourth year:

COM-2300 Voices of Diversity.....	3
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching.....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-4000 Principles of Inclusion.....	1
EDUC-4500 Philosophy of Education.....	2
PHYS-4800 Senior Seminar—Physics.....	1
(or CHEM-4800 Chemistry Senior Seminar.....)	1
SCED-3120 Teaching Science.....	3
Physics Elective.....	3
<b>Total.....</b>	<b>35-37</b>

A complete description of the general education requirements is found on page 18

## Physics Education (Bachelor of Arts)

Course requirements involve 68 semester hours including:

<i>Physics Core Requirements</i> .....	34
PHYS-2110, 2120, 2130 General Physics I, II, III.....	10
PHYS-3110 Intermediate Physics Lab .....	2
PHYS-3310 Theoretical Mechanics I.....	3
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-3510 Modern Physics I.....	3
PHYS-3800 Research Methods in Physics .....	1
PHYS-4110 Advanced Physics Lab.....	2
PHYS-4800 Senior Seminar–Physics .....	1
<i>Physics Electives selected from the following</i> .....	9
PHYS-3350 Thermal Physics .....	3
PHYS-4210 Mathematical Methods for Physicists .....	3
PHYS-4410 Electromagnetic Theory II .....	3
PHYS-4450 Optics .....	3
PHYS-4520 Quantum Mechanics I .....	3
*PHYS-4880 Topics in Physics .....	1-3
<i>Departmental Requirements</i> .....	34
BIO-1000 Principles of Biology .....	3.5
CHEM-1110, 1120 General Chemistry I, II .....	8
GSCI-1010 Principles of Earth Science .....	3.5
MATH-1710, 1720, 2710 Calculus I, II, III .....	13
MATH-2740 Differential Equations .....	3
SCED-3120 Teaching Science .....	3
<i>Teacher Education</i> .....	39

\*Capstone Course

### Physics Education Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	39-47
Physics Education Major Requirements.....	68
Teacher Education Requirements .....	39
<b>Total (minimum, not including proficiency) .....</b>	<b>146</b>

### Suggested Four-Year Curriculum for a Major in Physics Education - B.A.

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
CHEM-1110, 1120 General Chemistry I,II.....	8
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition .....	3
MATH-1710, 1720 Calculus I, II.....	10
PEF-1990 Physical Activity and the Christian Life .....	1
PHYS-2110 General Physics I .....	4
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>37</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BIO-1000 Principles of Biology .....	4
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology .....	3
GSS-1100 Politics and American Culture .....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations.....	3
PHYS-2120, 2130 General Physics II, III.....	6
Physics Elective .....	3
<b>Total.....</b>	<b>38.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
GSCI-1010 Principles of Earth Science .....	3.5
HUM-1400 Introduction to the Humanities.....	3
PHYS-3110 Intermediate Physics Laboratory .....	2
PHYS-3310 Theoretical Mechanics .....	3
PHYS-3510 Modern Physics I .....	3
PHYS-3800 Research Methods in Physics .....	1
History Elective .....	3
Literature Elective .....	3
Physics Electives .....	6
Social Science Elective.....	3
<b>Total.....</b>	<b>34.5</b>

#### Fourth year:

COM-2300 Voices of Diversity .....	3
EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-4000 Principles of Inclusion .....	1
EDUC-4500 Philosophy of Education .....	2
PHYS-3410 Electromagnetic Theory I .....	3
PHYS-4110 Advanced Physics Laboratory.....	2
PHYS-4800 Senior Seminar–Physics.....	1
SCED-3120 Teaching Science.....	3
<b>Total .....</b>	<b>36-38</b>

## Science Comprehensive Education – Integrated (Bachelor of Arts)

Course requirements involve 73 semester hours including:

<i>Biology Core</i> .....	22
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
BIO-3300 Genetics .....	4
<i>One Biology Elective selected from the following</i> .....	3
BIO-3410 Invertebrate Zoology.....	3
BIO-3450 Human Structure and Function I.....	3
BIO-3510 Plant Physiology .....	3
BIO-3520 Plant Taxonomy .....	3
BIO-3610 Environmental Physiology and Ecology .....	4
BIO-4300 Molecular Biology of the Cell .....	4
BIOA-3600 Topics in Environmental Biology .....	4
<i>Physical Science/Mathematics/Science Methods</i> .....	51
*BIO-4800 Senior Seminar–Biology .....	1
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510 Organic Chemistry I.....	5
CHEM-3710 Biochemistry .....	4
CHEM-2210 Analytical Chemistry I .....	3
(or CHEM-3520 Organic Chemistry II .....	5)
CHEM-2800 Introduction to Research in Chemistry.....	1
ESCI-1110 Introduction to Physical Geology .....	4
ESCI-2510 Introductory Astronomy .....	4
ESCI-1120 Historical Geology .....	4
(or ESCI-2310 Introduction to Oceanography.....	4)
(or ESCI-2410 General Meteorology .....	4)
GMTH-1030 Precalculus .....	4
PHYS-1010, 1020 College Physics I, II.....	10
SCED-3120 Teaching Science .....	3
<i>Teacher Education</i> .....	39

\*Capstone Course

### Science Comprehensive Education-Integrated Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	39-47
Science Comprehensive Education Major Requirements .....	73
Teacher Education Requirements .....	39
<b>Total (minimum, not including proficiency) .....</b>	<b>151</b>



Full-time professors, rather than teaching assistants, work closely with students during laboratory sessions.

### Suggested Four-Year Curriculum for a Major in Science Comprehensive Education–B.A.

#### First year

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
CHEM-1110, 1120 General Chemistry I, II.....	8
EDUC-1000 The Education Profession .....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition .....	3
ESCI-1010 Introduction to Physical Geology .....	4
GMTH-1030 Precalculus.....	4
GSS-1100 Politics and American Culture .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>39</b>

#### Second year

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BIO-2500 General Botany.....	4
BIO-2600 General Ecology .....	3
CHEM-2800 Introduction to Research in Chemistry .....	1
CHEM-3510 Organic Chemistry I .....	5
CHEM-2210 Analytical Chemistry I .....	3
(or CHEM-3520 Organic Chemistry II .....	5)
COM-1100 Fundamentals of Speech.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience .....	1
EDUC-2000 Introduction to Teaching .....	2
EDUC-2100 Technology in the Classroom .....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology .....	3
Total .....	36-38

#### Third year

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
BIO-3300 Genetics .....	4
CHEM-3710 Biochemistry.....	4
ESCI-2510 Introductory Astronomy .....	4
ESCI-XXXX Earth Science Elective .....	4
HUM-1400 Introduction to the Humanities.....	3
PHYS-1010, 1020 College Physics I, II .....	10
Biology Elective.....	3
Literature Elective .....	3
<b>Total.....</b>	<b>39</b>

#### Fourth year

BIO-4800 Senior Seminar–Biology .....	1
COM-2300 Voices of Diversity .....	3
EDSE-4000 Reading in the Content Area: AYA .....	3
EDSE-4100 Principles of Teaching .....	5
EDSE-4450 Clinical Experience: AYA.....	3
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-4000 Principles of Inclusion .....	1
EDUC-4500 Philosophy of Education .....	2
SCED-3120 Teaching Science.....	3
History Elective .....	3
Social Science/Global Awareness Elective .....	3
<b>Total.....</b>	<b>37-39</b>



## Minors

The minors in the department of science and mathematics are designed to provide non-majors with additional background in the biological sciences, mathematics, and physical sciences.

### Bioethics Minor

Course requirements for the **bioethics minor** involve 16.5-17.5 semester hours including:

BEPH-2250 Ethics.....	3
BEPH-2200 Introduction to Philosophy .....	3
BIO-1000 Principles of Biology (or higher-level BIO course).....	3.5
GBIO-4700 Bioethics Colloquium.....	1
<i>Human Studies Elective (select one)</i> .....	3-4
BIO-2010 Human Anatomy and Physiology .....	4
BIO-3450 Human Structure and Function I.....	4
PYCH-1600 General Psychology.....	3
ANTH-1800 Cultural Anthropology.....	3
<i>Bioethics Elective (select one)</i> .....	3
BIO-4710 Principles of Bioethics .....	3
GBIO-2720 Bioethics and the Human Experience.....	3

### Biology Minor

Course requirements for the **biology minor** involve 19 semester hours including:

BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology.....	4
BIO-2500 General Botany .....	4
BIO-2600 General Ecology.....	3
Biology Electives .....	4

### Chemistry Minor

Course requirements for the **chemistry minor** involve 19 semester hours including:

CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-2210 Analytical Chemistry I .....	3
CHEM-3510 Organic Chemistry I.....	5
Chemistry Electives .....	3

### Earth Science Minor

Course requirements for the **earth science minor** involve 20 semester hours including:

ESCI-1110 Introduction to Physical Geology.....	4
ESCI-1120 Historical Geology.....	4
ESCI-2310 Introduction to Oceanography.....	4
ESCI-2410 General Meteorology .....	4
ESCI-2510 Introductory Astronomy .....	4

### Mathematics Minor

Course requirements for the **mathematics minor** involve 19 semester hours including:

MATH-1710, 1720 Calculus I, II.....	10
<i>Mathematics Electives selected from the following</i> .....	9
MATH-2210 Logic and Methods of Proof.....	3
MATH-2710 Calculus III .....	3
MATH-2740 Differential Equations.....	3
Any 3000- or 4000-level mathematics course	

### Physics Minor

Course requirements for the **physics minor** involve 18 semester hours including:

PHYS-2110, 2120, 2130 General Physics I, II, III.....	10
PHYS-3110 Intermediate Physics Laboratory .....	2
PHYS-3510 Modern Physics .....	3
Physics Electives.....	3

## Special Programs

### Environmental Biology

The environmental biology curriculum within the biology major provides undergraduate preparation for students who are pursuing careers in such fields as conservation biology, wildlife biology, environmental toxicology, and environmental health. In addition to formal courses in biology, chemistry, and mathematics, employment criteria for these professions include prior experience (e.g. as a summer employee or intern), field biology skills (i.e., plant/animal taxonomy and habitat assessment and improvement), interpersonal skills, mathematical and communication skills, and the ability to reason critically and integrate across disciplines.

Students in the **environmental biology program** must complete the requirements for the B.S. in biology, including 16 hours of electives chosen from the list below:

<i>*Electives selected from the following</i> .....	16
BIO-2210 Microbiology .....	4
BIO-3410 Invertebrate Zoology.....	3
BIO-3420 Vertebrate Zoology .....	3
BIO-3510 Plant Physiology.....	3
BIO-3520 Plant Taxonomy .....	3
BIO-3610 Environmental Physiology and Ecology .....	4
BIOA-3600 Topics in Environmental Biology (Au Sable Institute Courses) .....	4-12
BIO-4910 Environmental Biology Internship.....	4

\*12 of the 16 elective hours must be 3000-4000-level courses.

Students pursuing *environmental education* (e.g. interpretive naturalist) may also elect to complete requirements for state teacher licensure through the education department. The environmental biology curriculum can also serve as a useful component for students who plan to serve in missions ministries through programs related to soil, water, and plant/animal resource management.

### 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 upon 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:	
BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
BIO-1110 Introduction to Biology .....	4
CHEM-1110 General Chemistry I .....	4
ENG-1400 Composition .....	3
GMTH-1030 Precalculus .....	4
(or MATH-1710 Calculus I.....)	5
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities .....	3

# Science and Mathematics

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## Agriculture Business Emphasis

The **agriculture business emphasis** prepares students for careers in the industry and business phases of agriculture.

Course requirements include:

<i>Two courses selected from</i> .....	10
ACCT-2110 Principles of Accounting .....	3
BIO-1120 General Zoology .....	4
BIO-2500 General Botany.....	4
BIO-2600 General Ecology .....	3
BIO-2210 Microbiology .....	4
BIO-3300 Genetics .....	4
BUS-2150 Statistics .....	3
ECON-2330, 2340 Micro and Macroeconomics .....	6
MGMT-3500 Principles of Organization and Management...	3
MIS-1100 Introduction to Computers .....	1
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.....	3
CHEM-3510, 3520 Organic Chemistry I, II .....	10
MATH-1720 Calculus II.....	5
MATH-3110 Probability and Statistics I .....	3
Biological Science Elective.....	4
(or CHEM-3710 Biochemistry .....	4)
Humanities Elective .....	3
Social Science Elective .....	3

## Medical Technology Option

A **medical technology** option is available within the biology major. The student must spend one year in a hospital internship program to become a certified medical technologist. Prerequisites to the hospital internship include: 16 hours of biology, 16 hours of chemistry, one mathematics course, and completion of all general education requirements.

Students may do an internship during their senior year with 32 hours of transfer credit applied to the biology major upon successful completion of the internship. Many students complete the requirements for a biology major first and then take the internship after graduation from Cedarville University.

## Pre dental, Pre medical, Pre optometric, Pre osteopathic, and Pre veterinary Medicine

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. In addition to general degree requirements, the following courses are recommended for admission:

*Biology courses:*

BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2210 Microbiology .....	4
BIO-3300 Genetics .....	4
BIO-3420 Vertebrate Zoology.....	3
(or BIO-4410 Developmental Biology .....	3)
BIO-3450, 3460 Human Structure and Function I, II .....	7
BIO-4710 Principles of Bioethics .....	3
(or BIO-4770 Pathophysiology.....	3)

*Chemistry courses:*

CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510, 3520 Organic Chemistry I, II .....	10
CHEM-3710 Biochemistry .....	4

*Additional courses:*

MATH-1710, 1720 Calculus I, II.....	10
PHYS-1010, 1020 College Physics I, II .....	10
(or PHYS-2110, 2120 General Physics I, II .....	8)

Note: Students who desire admission to physician assistant programs will also need to have 1,000 hours or more of direct health care experience. Specific requirements vary from one program to another.

## Prepharmacy Curriculum

The **prepharmacy curriculum** enables a student to obtain the first three or four years of the six- or seven-year Pharm.D. program at Cedarville University. To ensure that specific course requirements may be met through Cedarville courses, the student should select the pharmacy college he or she plans to attend as early as possible and obtain a catalog describing the specific course requirements.

Generally the following courses should be included in the three or four years the prepharmacy student attends Cedarville:

BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2210 Microbiology .....	4
BIO-3450 Human Structure and Function I .....	3
CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510, 3520 Organic Chemistry I, II .....	10
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition.....	3
GSS-1000 Foundations of Social Science .....	3
MATH-1710 Calculus I.....	5
PHYS-1010, 1020 College Physics I, II .....	10
PYCH-1600 General Psychology .....	3

## Prephysical Therapy

Most Cedarville students who successfully apply to graduate programs in physical therapy have completed the B.A. in biology. Students should contact the specific schools they wish to attend to determine the exact prerequisites. Physical therapy schools usually require 40 to 100 hours of experience assisting a licensed physical therapist prior to application. In addition to general degree requirements, the following courses are recommended for admission to most physical therapy schools:

*Biology courses:*

BIO-1110 Introduction to Biology .....	4
BIO-1120 General Zoology .....	4
BIO-2800 Introduction to Research Methods .....	2
BIO-3300 Genetics .....	4
BIO-3450, 3460 Human Structure and Function I, II .....	7
BIO-4770 Pathophysiology.....	3

*Chemistry courses:*

CHEM-1110, 1120 General Chemistry I, II.....	8
CHEM-3510 Organic Chemistry I.....	5
CHEM-3710 Biochemistry .....	4

*Additional mathematics and science courses:*

GMTH-1030 Precalculus .....	4
PHYS-1010, 1020 College Physics I, II .....	10

*Psychology:*

PYCH-1600 General Psychology .....	3
PYCH-2600 Human Development: Lifespan .....	3
PYCH-2610 Statistics .....	3
PYCH-2640 Psychology of Abnormal Behavior.....	3

*Other highly recommended electives:*

ATRN-2650 Therapeutic Exercise for Athletic Injuries.....	2
ATRN-3660 Modalities in Athletic Training .....	3
BIO-4710 Principles of Bioethics .....	3
ESS-3920 Biomechanics.....	3
ESS-3940 Structural Kinesiology .....	1
ESS-3900 Physiology of Exercise .....	3

### Course Descriptions

#### General Education

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 science or mathematics major or minor may also count toward fulfilling general education requirements.

**BIO-1000 Principles of Biology**—Fa,Sp,Su **3.5 hours**

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: \$75)

**BIO-2010 Human Anatomy and Physiology**—Fa **4 hours**

Survey of the principal systems of the human body with emphasis on both structure and function. Includes the skeletal, muscular, nervous, endocrine, cardiovascular, and respiratory systems. Three lectures and one two-hour laboratory per week. *Prerequisite: BIO-1000 Principles of Biology; or CHEM-1000 Principles of Chemistry.* (Fee: \$100)

**BIO-2020 Advanced Clinical Physiology**—Sp **4 hours**

Advanced study in human structure and function, including the digestive, urinary, and reproductive systems, as well as metabolism and acid-base balance. The pathophysiology of disease is presented using a case-study format. Three lectures and one two-hour laboratory per week. *Prerequisite: BIO-2010 Human Anatomy and Physiology.* (Fee: \$100)

**CHEM-1000 Principles of Chemistry**—Fa **5 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: \$100)

**CHEM-1010 Principles of Biochemistry**—Sp **5 hours**

For non-science majors, an introduction to organic compounds not covered in CHEM-1000 and a study of the nomenclature and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Four lectures and one two-hour laboratory per week. *Prerequisite: CHEM-1000 Principles of Chemistry.* (Fee: \$100)

**CHEM-1050 Chemistry for Engineers**—Fa **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 biweekly two-hour laboratory. (Fee: \$75)

**ESCI-1110 Principles of Physical Geology**—Fa **4 hours**

An introductory study of the earth and its geological processes. Major lecture topics include minerals, rocks, fossils, weathering, plate tectonics, earth history, dating, streams, groundwater, glaciers, and various internal and surface features of the earth. Various alternative interpretations of earth history will be discussed. Laboratory exercises will include field trips to various areas of local geological interest. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100)

**ESCI-1120 Historical Geology**—Sp **4 hours**

The earth's geological history from its beginning to the present will be reviewed from both conventional and non-conventional perspectives, and the evidence and merits of conflicting viewpoints will be discussed. Major lecture topics include a survey of the various eras of geological time, plate tectonics, biological evolution, the meaning of the fossil record, dating methods, and correlation of rocks. Field trips will focus on local paleontology. Three lectures and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. *Prerequisites: GSCI-1010 Principles of Earth Science; ESCI-1110 Principles of Physical Geology; or permission of instructor.* (Fee: \$100)

**ESCI-2310 Introduction to Oceanography**—Fa **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**—Fa **4 hours**

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. Three lectures and one two-hour laboratory per week. This course satisfies the physical science requirement of the general education requirements. *Prerequisite: high school physics; GMTH-1030 Precalculus or equivalent; or permission of instructor.* (Fee: \$100) (even years)

**ESCI-2510 Introduction to Astronomy**—Sp **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. 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. *Prerequisite: GMTH-1030 Precalculus or equivalent or permission of instructor.* (Fee: \$100) (odd years)

**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: BIO-1000 Principles of Biology.*

**GBIO-4700 Bioethics Colloquium**—Sp **1 hour**

An integrative bioethics project, including a written paper and oral presentation. *Prerequisite: Completion of other elements of Bioethics minor.*

**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.*

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## **GMTH-1020 College Algebra—Fa 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 Calculus for Business—Fa,Sp 3 hours**

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-3010 Proof and Mathematical Modeling—Sp 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-1800 Principles of Mathematics I; EDUC-2800 Principles of Mathematics II; GMTH-1020 College Algebra; MATH-1710 Calculus I.

## **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-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 scientific process, theory of evolution, cell theory, and the concept of disease. Prerequisites: BIO-1000 Principles of Biology; CHEM-1000 Principles of Chemistry; GSCI-1010 Principles of Earth Science; GSCI-2010 Physical Science for Teachers. (Fee: \$75)

## **GSCI-3060 4 hours**

### **Environmental Science for Middle School Educators—Sp**

Introduction to the study of the dynamic relationships that exist between the earth's organisms and their environment and how man affects these relationships. There will be an emphasis on the intricate design and resilience of God's creation. This course will include laboratory investigations, field trips, group work, review of environmental news, lecture-discussions, videos, small projects, and pertinent ideas for teaching the environment 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: BIO-1000 Principles of Biology; middle childhood education major; or permission of instructor. (Fee: \$100)

## **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 hour**

Designed to introduce prospective secondary school science teachers to the curriculum, materials, and methods of classroom teaching. *Prerequisite: admission to the teacher education program.*

**PHYS-1010 College Physics I—Fa 5 hours**

Basic concepts of mechanics and thermodynamics 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, forces and motion, work and energy, momentum, circular motion, gravitation, waves, phases of matter, heat, and the laws of thermodynamics. Four lectures and one two-hour laboratory per week. *Prerequisite: high school trigonometry; or GMTH-1030 Precalculus or equivalent.* (Fee: \$100)

**PHYS-1020 College Physics II—Sp 5 hours**

Basic concepts of electricity and modern physics using algebra and trigonometry. This is the second of a two-course sequence intended for students in the life sciences and preprofessional programs. Topics include electricity, magnetism, AC circuits, geometrical and physical optics, relativity theory, quantum theory and other modern physics topics. Four lectures and one two-hour laboratory per week. *Prerequisite: PHYS-1010 College Physics I or equivalent.* (Fee: \$100)

**SCED-3120 Teaching Science—Fa 3 hours**

Introduces prospective secondary school science teachers to the curriculum, materials, and methods of classroom and laboratory science teaching. Attention will be given to the philosophy and education psychology theories that are currently influencing science education and the methods of instruction that arise from these theories. Teacher education students participate in activities and complete assignments designed to provide experience in science lesson planning, acquisition of classroom and laboratory resources, and strategies of maintaining science laboratory safety. *Prerequisite: admission to the teacher education program.*

**Biology**

**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 two-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 two-hour labs per week. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

**BIO-2210 Microbiology—Fa 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; CHEM-1010 Principles of Biochemistry or equivalent.* (Fee: \$100)

**BIO-2250 Cell Biology—Sp 4 hours**

Foundational knowledge of cell biology including basic mechanisms of prokaryotic and eukaryotic metabolism, division, and physiology. Three fifty-minute lectures and one three-hour laboratory. *Prerequisite: BIO-1110 Introduction to Biology, BIO-1120 General Zoology, and BIO-2130 General Botany and Ecology* (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, BIO-1120 General Zoology.* (Fee: \$100)

**BIO-2600 General Ecology—Sp 3 hours**

A study of the interrelationships among plants, animals, and microbes and with their environment. Basic theory of biotic communities and ecosystems will provide insights about energy flow, nutrient cycling, and responses to natural and human disturbances of terrestrial, aquatic, and wetland systems. Two lectures and one three-hour laboratory per week. *Prerequisites: BIO-1120 General Zoology, BIO-2500 General Botany.* (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 Invertebrate Zoology—Fa 3 hours**

This course will provide an overview of the diversity of invertebrates. It will take an integrative approach to learning about invertebrate taxonomy, ecology, morphology, and physiology. Field collections of local fauna will be used to learn the principles of invertebrate classification and to study local biological diversity. *Prerequisite: BIO-1120 General Zoology.* (Fee: \$100) (even years)

**BIO-3420 Vertebrate Zoology—Sp 3 hours**

This course is a study of the diversity among the vertebrate classes with an emphasis on continuity and discontinuity of morphological form and physiological function of vertebrate systems. *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-1120 General Zoology.* (Fee: \$100)

**BIO-3460 Human Structure and Function II—Sp 3 hours**

Study of the structure and function of the human body with an emphasis on body systems. Includes cardiovascular, respiratory, gastrointestinal, and renal systems. Three lectures per week. *Prerequisite: BIO-3450 Human Structure and Function I.*

**BIO-3510 Plant Physiology—Sp 3 hours**

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, BIO-2600 General Ecology.* (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, BIO-2600 General Ecology.* (Fee: \$100) (even 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 Web site. 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 [www.ausable.org](http://www.ausable.org). *Prerequisite: acceptance to attend Au Sable Institute.*

**BIO-3610 Environmental Physiology and Ecology–Sp 4 hours**

A study of both physiological ecology and field ecology. The course begins with field and laboratory studies of adaptations to winter at the organismic and cellular levels and includes a travel study experience in the "North Woods." Spring emphasis shifts to field ecology with emphasis on aquatic, forest, and prairie ecosystems. Three lectures and one 3-hour laboratory per week. *Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology.* (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. Four lectures per week. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.*

**BIO-3800 Biological Research–Fa,Sp 2 hours**

Student will undertake an original research project under the direction of a departmental faculty mentor or approved mentor within a summer research program; or within an approved academic internship experience geared toward completion of the capstone experience. *Prerequisites: junior status; permission of instructor.* (Fee: \$150)

**BIO-3810 Biological Research Internship–Fa 1-2 hours**

Student will participate in an 8-10 week summer undergraduate research program of his or her 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. In order 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-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-2250 Cell Biology; BIO-3300 Genetics.* (Fee \$100) (even years)

**BIO-4220 Signal Transduction–Fa 3 hours**

Study of major cellular signaling pathways in normal function and in disease. Original research will emphasize signaling pathways, and data collected will further advance the field. Two lectures and one three-hour laboratory per week. *Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics.* (Fee: \$100) (odd years)

**BIO-4300 Molecular Biology of the Cell–Fa 4 hours**

Study of the molecules that make up the living cell, with emphasis on nucleic acid biology and protein biology. Other topics include origin of life, abiogenesis, and a historical analysis of the discovery of DNA and proteins. *Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry.* (Fee: \$100)

**BIO-4350 Immunology–Fa 4 hours**

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. Two lectures and one lab per week. *Prerequisite: BIO-1110 Introduction to Biology.* (Fee: \$100)

**BIO-4410 Developmental Biology–Sp 3 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. Two lectures and one lab per week. *Prerequisites: BIO-3420 Vertebrate Zoology and BIO-3450 Human Structure and Function I.* (Fee: \$100)

**BIO-4710 Principles of Bioethics–Fa 3 hours**

Christian principles of bioethics, with an emphasis on personhood and the sanctity of human life. Three lectures per week. *Prerequisites: completion of core biology curriculum; junior status.*

**BIO-4750 Nutrition and Metabolism–Fa 3 hours**

In depth study of proteins, amino acids, vitamins, and minerals, as well as homeostatic maintenance of the human body. Emphases will include dietary requirements, metabolism, and metabolic states, and diseases associated with each nutrient. Students will also learn to locate and interpret current nutrition research and to critically evaluate diets, products, and nutrition information from the popular culture. *Prerequisites: BIO-3710 Biochemistry.*

**BIO-4770 Pathophysiology–Fa 3 hours**

Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. *Prerequisite: 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: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics; 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: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics.*

**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 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

**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, intermolecular forces, states of matter, and thermodynamics. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Many of the lab reports require use of spreadsheets or other computer software. Three lectures and one three-hour lab per week. *Prerequisite: satisfactory performance on the chemistry placement exam. (Fee: \$100)*

**CHEM-1120 General Chemistry II–Sp 4 hours**

A continuation of General Chemistry I, including the physical chemistry concepts of kinetics and equilibrium. Inorganic topics include acids and bases, oxidation-reduction reactions, nuclear chemistry, and the descriptive chemistry of the main group and transition metal elements. Lab exercises stress quantitative analytical techniques and application of visible light spectroscopy. Lab reports require use of spreadsheets or other computer software 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, acid-base equilibria, electrochemistry, and volumetric analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations in which accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. *Prerequisite: CHEM-1120 General Chemistry II. (Fee: \$100)*

**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: \$100)*

**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 4 hours**

A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous classes to current environmental issues. Three lectures and one three-hour lab a 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 5 hours**

Detailed 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. Four lectures and one three-hour lab per week. *Prerequisite: CHEM-1120 General Chemistry II. (Fee: \$100)*

**CHEM-3520 Organic Chemistry II–Sp 5 hours**

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 lectures and two three-hour labs per week. *Prerequisite: CHEM-3510 Organic Chemistry I. (Fee: \$100)*

**CHEM-3525 Organic Chemistry II for Biologists–Sp 4 hours**

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). This course satisfies the organic chemistry II requirement for the B.S. in biology and may be used as an elective for the B.A. in biology. Three lectures and one three-hour lab per week. *Prerequisite: CHEM-3510 Organic Chemistry I. (Fee: \$100)*

# Science and Mathematics

School of Engineering, Nursing, and Science

## 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. Four lectures per week. *Prerequisites:* BIO-1110 *Introduction to Biology*; CHEM-3510 *Organic Chemistry I*.

## CHEM-4210 Advanced Chemistry Lab–Sp

2 hours

This laboratory course will integrate organic and inorganic synthetic methodology with the application of various characterization techniques. Analytical, physical, and instrumental analysis techniques will be utilized. One three-hour lab per week. *Prerequisite:* CHEM-4320 *Physical Chemistry II*. (Fee: \$100)

## CHEM-4310 Physical Chemistry I–Fa

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*, PHYS-2120 *General Physics II*. (Fee: \$100)

## CHEM-4320 Physical Chemistry II–Sp

4 hours

A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. *Prerequisite:* CHEM-4310 *Physical Chemistry I*. (Fee: \$100)

## 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*.

## CHEM-4800 Senior Seminar–Chemistry–Sp

1 hour

Capstone course for majors in chemistry. Students present a paper from library or laboratory research. Before enrollment, each student must obtain approval of the topic from his or her advisor and the seminar instructor and set the date of presentation. 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–Sp

3 hours

Investigation of a chemical research project and its culmination in a scholarly research report. Submission and approval of a research proposal must precede registration. May be repeated once for credit. *Prerequisites:* CHEM-2800 *Introduction to Research in Chemistry*; CHEM-4310 *Physical Chemistry I*. (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:* CHEM-2210 *Analytical Chemistry I*; 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 *Physical Chemistry I*.

## 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*.

## Mathematics

### MATH-1710 Calculus I–Fa,Sp

5 hours

First course of a two-course sequence covering basic concepts of analytic geometry and single variable calculus. Includes limits, transcendental functions, derivatives, applications of the derivative, single variable integration with introduction to numeric integration techniques, applications of integration including some solutions of differential equations, and additional integration techniques. *Prerequisite:* GMTH-1030 *Precalculus* or equivalent; or permission of instructor.

### MATH-1720 Calculus II–Fa,Sp

5 hours

The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, parametric equations, polar coordinates, vectors and geometry in three-space, vectors, and vector calculus. *Prerequisite:* MATH-1710 *Calculus I* or equivalent or permission of instructor.

### MATH-1990

3 hours

#### Beautiful Math Structures & Thinking–Fa

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-2710 Calculus III–Fa, Sp

3 hours

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

3 hours

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 professional-looking presentations, homework, quizzes, examinations, syllabi, resumes, 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 towards B.A. or B.S. majors in mathematics.** *Prerequisites:* MATH-2210 Logic and Methods of Proof; MATH-1720 Calculus II.

**MATH-3110 Probability & Statistics I–Fa** **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-3240 Introduction to Operations Research–Fa** **3 hours**

Formulation and analysis of mathematical models for the optimal solution of decision making problems under certainty. 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; MATH-3110 Probability and Statistics; 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 years)

**MATH-3560 Discrete Math: Combinatorics–Sp** **3 hours**

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**

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** **3 hours**

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** **1 hour**

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-4110 Probability and Statistics II–Sp** **3 hours**

Second course of a two-course sequence covering basic concepts of statistics. Topics chosen from the following: hypothesis tests, regression analysis, quality control, and non-parametric statistics. *Prerequisites:* MATH-3110 Probability and Statistics I.

**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. (even years)

**MATH-4410** **3 hours**

**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.

# Science and Mathematics

School of Engineering, Nursing, and Science

## **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, metrizable, and complete metric spaces.

*Prerequisite:* MATH-2210 *Logic and Methods of Proof.* (even years)

## **MATH-4610, 4620 Abstract Algebra I, II–Fa,Sp** **3 hr/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, II–Fa,Sp** **3 hr/sem**

Introduction to the real number system's algebraic order, completeness, and cardinality properties, the topology of Cartesian spaces  $R^n$  and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and  $L_n$ . *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 courses beyond MATH-1720 *Calculus II;* 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.

## **Physics**

## **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;* MATH-1720 *Calculus II;* MATH-1720 may be co-enrolled with permission of instructor. (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** **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. (odd years)

## **PHYS-3110 Intermediate Physics Laboratory–Sp** **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 his/her prospectus for his/her 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 I–Sp** **3 hours**

Derivation of the motion of a point object through three-dimensional 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** **3 hours**

This course will study the generation, transmission and reception of sound. Topics include wave propagation through the 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.* (odd years)

## **PHYS-3350 Thermal Physics–Fa** **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 I–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.* (odd years)

**PHYS-3800 Research Methods in Physics–Fa 1 hour**

Reinforces concepts of the advanced physics courses and develop 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–Fa 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; 3 hours of a 3000 or 4000-level physics course.* (even years)

**PHYS-4310 Theoretical Mechanics II–Fa 3 hours**

Principles of mechanics applied to systems of particles. Topics include rigid body motion, Hamilton's equations, continuous media and nonlinear oscillators. *Prerequisites: PHYS-3310 Theoretical Mechanics I.* (odd years)

**PHYS-4410 Electromagnetic Theory II–Sp 3 hours**

Continuation of PHYS-3410. Includes magnetic properties of matter, electromagnetic induction, magnetic energy, slowly varying currents, Maxwell's equations and their applications, and introductory electrodynamics. *Prerequisite: PHYS-3410 Electromagnetic Theory I.* (odd years)

**PHYS-4450 Optics–Fa 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.* (even years)

**PHYS-4520 Quantum Mechanics I–Fa 3 hours**

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. *Prerequisite: PHYS-3510 Modern Physics.* (even years)

**PHYS-4530 Quantum Mechanics II–Sp 3 hours**

Continuation of Quantum Mechanics I. Topics treated include identical particles, spectral hyperfine structure, magnetic properties of matter, external fields, atomic spectroscopy of outer electrons, atomic spectroscopy of inner electrons, high-energy photon effects, molecular binding and spectra, emission and absorption of light, many particle system, W.K.B. approximation, angular momentum theory. *Prerequisite: PHYS-4520 Quantum Mechanics I* (even years)

**PHYS-4550 Solid State Physics–Sp 3 hours**

Studies of basic concepts and important applications in solid physics; discussion topics includes crystal structures, crystal dynamics, free electron model, energy bands in periodic potentials, semiconductor and semiconductor devices, magnetic order. *Prerequisite: PHYS-3350 Thermal Physics* (odd years)

**PHYS-4800 Senior Seminar–Physics–Sp 1 hour**

A presentation of the basic principles of the major disciplines of the sciences with a focus on the inter-relationships 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 his/her advisor and seminar instructor and must set the date of presentation before enrolling in the course. Material for this course is an outgrowth of a topic chosen by the student in PHYS-4110 Advanced Physics Lab. A paper and oral presentation are required that include the background, setup, data collection, analysis, and conclusions from his/her research. Guest lecturers and faculty members may present papers at the invitation of the instructor. *Prerequisite: PHYS-4110 Advanced Physics Lab; permission of instructor.*

**PHYS-4880 Topics in Physics 1-3 hours**

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)



## Mission Statement

The goal of the Cedarville University Department of Social Sciences and History is to develop ethical and capable professionals who can refine and integrate a Christian world and life view with their respective fields as they serve in a multicultural society and the global community.

## Department Objectives

1. Social sciences and history students will evidence knowledge of the basic components of their respective academic disciplines.
2. Social sciences and history students will participate in graduate study and/or practice as professionals in public and private professions.
3. Social sciences and history students will demonstrate competence in the methods and tools of original quantitative and qualitative research and the ability to formulate and express the results.
4. Social sciences and history students will exhibit critical analysis in evaluating historical and/or contemporary issues.
5. Social sciences and history students will 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 social sciences and history, students must earn a cumulative average of 2.0 or above and a "C-" or above in all courses required by their selected major. In addition, all majors must complete the following:\*

1. Attend an integration seminar during the fall of their senior year, offered in conjunction with the senior capstone experience.
2. A complete 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 social sciences and history.
3. A presentation of selective senior research projects presented to invited faculty, students, and guests.
4. Complete the Major Fields Test in their area during the scheduled time Spring Semester of their senior year (as appropriate).

\*Admissions and graduation requirements for social work are listed on page 222.

## Programs of Study

The department of social sciences and history offers the following programs of study:

### Bachelor of Arts (B.A.) in:

- American Studies
- Criminal Justice
- History
- History and Political Science
- Social Studies Education – Integrated
- International Studies
- Political Science
- Prelaw
- Public Administration
- Sociology

### Bachelor of Science (B.S.) with a major in:

- \*Forensic Science
- Social Work

\*In cooperation with science and mathematics; see page 188.

### Minors

- Criminal Justice
- History
- International Studies
- Political Science
- Public Administration
- Sociology

## Co-Curricular 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 a practitioner.

### 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.

### 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.

### CU Republican Club

**CU Republican Club** is an organization dedicated to the development of Christian leaders in the political arena.

### 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.

### 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 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.

### Renaissance Guild

**Renaissance Guild** increases learning and awareness of the medieval and renaissance eras and provides fellowship with like-minded 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; educate Cedarville University faculty, staff, students, and constituents; and engage and influence American political culture. The Center sponsors, among other programs, regular lecture series and an annual roundtable discussion of contemporary political issues.

### 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
- Word processing programs
- Web and HTML programs

Several of the department programs prepare students for careers directly following graduation (e.g., criminal justice, public administration, and social work). 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 (e.g., law enforcement and cybercrime, social work, and specialized fieldwork).

### 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
- Archaeologist
- Archivist
- Attorney
- Children services social worker
- Community developer
- Diplomatic service
- Federal law enforcer
- Forensic scientist
- Government worker
- Historical researcher
- Medical social worker
- Mental health social worker
- Minister
- Parole agent
- Politician
- Police officer
- Prison caseworker
- Prison manager (warden)
- Probation officer
- Public administrator
- School social worker
- Senior citizen center outreach worker

### Faculty

**Murray Murdoch**, *Chairman*; 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.

**Marc Clauson**, Associate Professor of History. *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.

**Christine Fulmer**, Assistant Professor of Social Work. *Education*: B.S., Baptist Bible College, 1990; M.S.W., Marywood University, 1996. At Cedarville since 2004.

**Donald Hanna**, Associate Professor of Criminal Justice. *Education*: B.A., Indiana University, 1959; M.A., University of Illinois, 1969; Senior Police Management Institute, 1988. At Cedarville since 1995.

**Nelson Henning**, Professor 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.

**George Huff**, Associate Professor of Social Work. *Education*: B.A., Ashland University, 1973; M.S.S.A., Case Western Reserve University, 1977. At Cedarville since 2000.

**Frank Jenista**, Professor 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.

**Thomas Mach**, Associate 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.

**David Meyer**, Assistant Professor of Political Science. *Education*: B.A., Drew University, 1990; M.A., Columbia University, 1992; M.Phil., Columbia University, 1996; Grad. Certificate, Harriman Institute, 1996. At Cedarville since 2002.

**Patrick Oliver**, Assistant Professor of Criminal Justice. *Education*: A.A., University of Cincinnati, 1977; B.A., Baldwin Wallace College, 1981; M.B.A., Baldwin Wallace College, 1991; 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**, 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**, Assistant Professor of Public Administration and Political Science. *Education*: B.A., Cedarville University, 1983; M.P.A., University of Dayton, 1988; D.P.A. A.B.D., Western Michigan University. At Cedarville since 2000.

**Kevin Sims**, Dean, School of Social Sciences and Professional Studies; 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.

**Mark Smith**, Assistant 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.

**Susan Warner**, Associate Professor of Sociology. *Education*: B.A., Baldwin-Wallace College, 1994; M.A., University of Akron, 1996; Ph.D., University of Akron, 2000. At Cedarville since 1999.

**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.

**James McGoldrick**, Professor Emeritus of History. *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.

**Robert Wiggins**, Professor of Criminal Justice and Public Administration. Retired. *Education*: B.Th., Baptist Bible College and Seminary, 1964; B.A., Olivet Nazarene University, 1966; graduate study, Temple University, 1966-68; M.S., The American University, 1970; Ph.D., The University of Texas at Arlington, 1987; postdoctoral study, The University of Texas at Dallas, 1987-88. At Cedarville from 1992 to 2004.

# Social Sciences and History

School of Social Sciences and Professional Studies

A complete description of the general education requirements is found on page 18

## American Studies

The **American studies major** provides an understanding of the American culture within the context of a Christian worldview. The American studies advisor will assist the student in selecting 18 hours from two discipline areas reflecting the student's interest. The discipline areas include biblical education, business administration, communication arts, history, language and literature, music, psychology, and social sciences.

Course requirements involve 45 semester hours including:

<i>American Studies Core</i> .....	27
GEO-3510 World Regional Geography–West.....	3
HIST-1110, 1120 United States History I & II.....	6
HIST-3110 Early American History.....	3
(or HIST-3120 History of Recent and Cont. Amer. ....)	3
HIST-3720 Politics and Postmodernism.....	3
*HIST-4700 Research in American History.....	3
LIT-3510 Modern American Literature.....	3
POLS-2100 American Political Institutions.....	3
POLS-3650 International Relations.....	3
(or HIST-4050 Great Power Diplomacy.....)	3

Select 18 credits from two of the following discipline areas ..... 18

### Biblical Education

BEPH-2200 Introduction to Philosophy.....	3
BEPH-2260 Religion and Culture.....	3
BEPH-3320 History of Modern Philosophy.....	3
BEPH-3330 19th Century Philosophy.....	3

### Business Administration

ECON-2330, 2340 Micro- and Macroeconomics.....	6
ECON-3130 Government and Business.....	3
ECON-3310 International Money and Capital Markets.....	3
ECON-3340 History of Economic Thought.....	3
MRKT-3600 Principles of Marketing.....	3
MRKT-3660 Promotion Strategy.....	3

### Communication Arts

COM-2320 Theories of Mass Media.....	3
EMTC-1110 Introduction to Electronic Media.....	3
EMTC-4110 Electronic Media Law and Regulation.....	3

### Language and Literature

ENG-2210 Principles of Journalism.....	3
ENG-2230 Advanced Composition.....	2
ENG-3220 Advanced Journalism.....	2
LIT-3190 19th Century American Literature.....	3
LIT-3420 American Novel.....	3

### Psychology

PYCH-1600 General Psychology.....	3
PYCH-3690 Social Psychology.....	3

### Social Sciences and History

All courses that stress an American context.

\*Capstone Course

### American Studies Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	46-54
American Studies Major Requirements.....	45
Electives.....	29-37
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in American Studies

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
HIST-1110 United States History (Before 1865).....	3
HIST-1120 United States History (After 1865).....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
Electives.....	6
<b>Total.....</b>	<b>32</b>

#### Second year:

BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
HIST-3110 Early American History.....	3
(or HIST-3120 History of Recent and Contemporary America.....)	3
LIT-3510 Modern American Literature.....	3
POLS-2100 American Political Institutions.....	3
Biological Science Elective.....	3.5
Global Awareness Elective.....	3
Interdisciplinary Electives.....	6
Quantitative Elective.....	3
<b>Total.....</b>	<b>30.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
GEO-3510 World Regional Geography–West.....	3
HIST-3720 Politics and Postmodernism.....	3
Humanities Elective.....	3
Interdisciplinary Electives.....	12
Physical Science Elective.....	3.5
Electives.....	4
<b>Total.....</b>	<b>32.5</b>

#### Fourth year:

POLS-3650 International Relations.....	3
(or HIST-4050 Great Power Diplomacy.....)	3
HIST-4700 Research in American History.....	3
Electives.....	27
<b>Total.....</b>	<b>33</b>

### 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.

Course requirements involve 55 semester hours including:

<i>Criminal Justice Core</i> .....	<b>31</b>
CRJU-1310 Introduction to Criminal Justice.....	3
CRJU-2200 Criminology.....	3
CRJU-2310 Juvenile Delinquency.....	3
CRJU-2700 Financial Mgmt for the Social Sci Professional.....	3
CRJU-3300 Corrections .....	3
CRJU-3350 Criminal Law .....	3
CRJU-4630 American Constitutional Law .....	3
GSS-3630 Data Analysis and Research Methodology .....	4
POLS-2100 American Political Institutions .....	3
PUAD-3600 Public Administration .....	3
<i>Select one concentration from the following</i> .....	<b>12</b>
<i>Police</i> .....	<b>12</b>
CRJU-4150 Homeland Security.....	3
CRJU-4200 Police Administration.....	3
*CRJU-4900 Research Issues in Criminal Justice.....	3
<sup>1</sup> GSS-4990 Criminal Justice Internship.....	3
<i>Corrections</i> .....	<b>12</b>
CRJU-3310 Corrections Administration .....	3
CRJU-4150 Homeland Security.....	3
*CRJU-4900 Research Issues in Criminal Justice.....	3
<sup>1</sup> GSS-4990 Criminal Justice Internship.....	3
<i>Courts</i> .....	<b>12</b>
CRJU-3360 American Judicial System .....	3
CRJU-4150 Homeland Security.....	3
*CRJU-4900 Research Issues in Criminal Justice.....	3
<sup>1</sup> GSS-4990 Criminal Justice Internship.....	3
<i>Criminal Justice Electives chosen from the following</i> .....	<b>12</b>
CRJU-2840 Concepts of Chemical Dependency.....	3
CRJU-3320 Criminal Investigation.....	3
CRJU-3390 Criminal Evidence .....	3
CRJU-3400 Criminal Procedure .....	3
CRJU-3410 Ethics & Civil Liability/Crim. Justice Personnel .	3
CRJU-4160 International and Domestic Terrorism .....	3
CRJU-4330 Contemporary Issues in Criminal Justice.....	3
CRJU-4440 Criminal Justice Special Topics.....	1-3
CRJU-4960 Independent Study in Criminal Justice.....	1-3
PYCH-2640 Abnormal Psychology .....	3
PYCH-2800 Addictions .....	3

\*Capstone course (required).

<sup>1</sup>Only one internship experience may be counted as credit.

### Criminal Justice Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	46-54
Criminal Justice Major Requirements.....	55
General Electives .....	16-24
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Criminal Justice

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
CRJU-1310 Introduction to Criminal Justice .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
History Elective .....	3
Physical Education Activity Elective.....	1
Elective .....	3
<b>Total.....</b>	<b>32.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
CRJU-2200 Criminology .....	3
CRJU-2310 Juvenile Delinquency .....	3
CRJU-2700 Financial Mgmt for the Social Sciences Professional .....	3
POLS-2100 American Political Institutions.....	3
Humanities Elective .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Electives.....	3
<b>Total.....</b>	<b>30.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
CRJU-3300 Corrections.....	3
CRJU-3350 Criminal Law .....	3
GSS-3630 Data Analysis & Research Methodology .....	4
PUAD-3600 Public Administration .....	3
Criminal Justice Electives Requirement.....	12
Electives.....	3
<b>Total.....</b>	<b>32</b>

#### Fourth year:

CRJU-4150 Homeland Security.....	3
CRJU-4630 American Constitutional Law.....	3
CRJU-4900 Research Issues in Criminal Justice .....	3
GSS-4490 Criminal Justice Internship .....	3
Criminal Justice Concentration Requirement .....	3
Electives .....	18
<b>Total.....</b>	<b>33</b>

## 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. Student 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 science and mathematics department. Program requirements can be found on page 188.

## 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 principle, resulting in an integrative interpretation.

Course requirements involve 35 hours including:

HIST-1110, 1120 United States History I & II.....	6
HIST-2000 Introduction to History .....	2
HIST-2010, 2020 History of Civilization I & II.....	6
HIST-3000 Introduction to Historiography .....	3
*HIST-4700 Research in American History.....	3
(or HIST-4710 Research in European History .....	3)
(or HIST-4720 Research in Asian History .....	3)
<i>Elective hours in history (3000- or 4000-level) .....</i>	<i>12</i>
<i>Non-Western History elective selected from .....</i>	<i>3</i>
HIST-3080 Russia and the Soviet Union .....	3
HIST-3200 History and Politics of Latin America .....	3
HIST-3210 History and Politics of Asia .....	3
HIST-3220 History and Politics of the Middle East .....	3
HIST-3240 History and Politics of Eastern Europe .....	3
HIST-3250 History and Politics of Central & South Asia .....	3
HIST-3540 History and Politics of Africa .....	3

\*Capstone Course

### History Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	46-54
History Major Requirements .....	35
Electives .....	39-47
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in History

<i>First year:</i>	
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History (before 1865).....	3
HIST-1120 United States History (after 1865).....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Physical Education Activity Elective.....	1
Electives.....	3
<b>Total.....</b>	<b>29</b>
<i>Second year:</i>	
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
HIST-2000 Introduction to History.....	2
Biology Elective.....	3.5
Literature Elective .....	3
Physical Science Elective .....	3.5
Quantitative Elective .....	3
Electives.....	7
<b>Total.....</b>	<b>34</b>
<i>Third year:</i>	
BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
HIST-3000 Introduction to Historiography.....	3
History Elective—Non-Western (major).....	3
History Elective (major requirement).....	3
Humanities Elective .....	3
Electives.....	18
<b>Total.....</b>	<b>34</b>
<i>Fourth year:</i>	
HIST-4700, 4710, or 4720 Research in American, European, or Asian History.....	3
History Electives (major requirement).....	9
Electives.....	19
<b>Total.....</b>	<b>31</b>



A complete description of the general education requirements is found on page 18

### History and Political Science

The **history and political science major** offers a broad background of world history, particularly as it relates to the study of political systems. In these disciplines, biblical interpretations of history and biblical bases for civil government are emphasized.

Course requirement involve 43-44 semester hours including:

<i>History and Political Science Core</i> .....	<b>33</b>
HIST-1110, 1120 United States History I & II .....	6
HIST-2010, 2020 History of Civilization I & II .....	6
HIST-3110 Early American History .....	3
(or HIST-3120 Recent and Contemporary America .....	3)
HIST-3710 Christian Political Thought .....	3
(or HIST-3720 Politics and Postmodernism .....	3)
POLS-2000 Introduction to Political Science .....	3
POLS-2100 American Political Institutions .....	3
POLS-3600 Public Administration .....	3
POLS-3650 International Relations .....	3
<i>Non-Western History Elective</i> .....	3
<i>Choose one from the following concentrations</i> .....	<b>10-11</b>
<i>History Concentration</i> .....	<b>11</b>
HIST-2000 Introduction to History .....	2
HIST-3000 Introduction to Historiography .....	3
*HIST-4700 Research in American History .....	3
(or HIST-4710 Research in European History .....	3)
(or HIST-4720 Research in Asian History .....	3)
Elective hours in history (3000- or 4000-level) .....	3
<i>Political Science Concentration</i> .....	<b>10</b>
**GSS-3630 Data Analysis and Research Methodology .....	4
*POLS-4900 Research in Political Science .....	3
<i>Political Science elective hours selected from</i> .....	<b>3</b>
POLS-3640 Campaigns and Elections .....	3
POLS-4620 Religion and American Politics .....	3
POLS-4630 American Constitutional Law .....	3

\*Capstone Course

\*\*Meets general education quantitative requirement

#### History/Political Science Major Curriculum Summary

Proficiency Requirements .....	0-5
Other General Education Requirements .....	43-51
History/Political Science Major Requirements .....	43-44
Electives .....	33-42
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Students had the opportunity to interact with Ohio Senator Mike Dewine when he visited the campus in 2005.

#### Suggested Four-Year Curriculum for a Major in History and Political Science

##### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History (before 1865) .....	3
HIST-1120 United States History (after 1865) .....	3
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
Physical Education Activity Elective .....	1
Quantitative Elective .....	3
<b>Total .....</b>	<b>32.5</b>

##### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
HIST-2010 History of Civilization I .....	3
HIST-2020 History of Civilization II .....	3
POLS-2000 Introduction to Political Science .....	3
POLS-2100 American Political Institutions .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Concentration Electives .....	3
Electives .....	6
<b>Total .....</b>	<b>33.5</b>

##### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
POLS-3600 Public Administration .....	3
POLS-3650 International Relations .....	3
Concentration Requirements .....	3
Humanities Elective .....	3
Non-Western History Elective .....	3
Electives .....	12-13
<b>Total .....</b>	<b>31-32</b>

##### Fourth year:

HIST-3110 Early American History .....	3
(or HIST-3120 History of Recent/Contemporary America .....	3)
HIST-3710 Christian Political Thought .....	3
(or HIST-3720 Politics and Postmodernism .....	3)
Concentration Requirements .....	7-8
Electives .....	18
<b>Total .....</b>	<b>31</b>

# Social Sciences and History

School of Social Sciences and Professional Studies

A complete description of the general education requirements is found on page 18

## International Studies – Social Science

The **social science** concentration 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 the foreign service, international media, international relations, and missions. Course requirements involve 30 hours, including:

<i>International Studies Core</i> .....	21
ANTH-1800 Cultural Anthropology .....	3
BEPH-2260 Religion and Culture .....	3
BUS-3910 International Business.....	3
COM-3140 Intercultural Communication .....	3
(or PSYCH-1800 Cross Cultural Psychology .....	3)
GEO-3510 World Regional Geography - West.....	3
(or GEO-3520 World Regional Geography - East.....	3)
HIST-2010 History of Civilization I .....	3
(or HIST-2020 History of Civilization II .....	3)
INTL-3190 Global Issues.....	3

Course requirements involve 30 hours including:

<i>Social Science Requirements</i> .....	9
ECON-3350 Comparative Economic Systems .....	3
INTL-3650 International Relations.....	3
*INTL-4850 Research in International Studies .....	3
<i>Social Science Electives chosen from the following</i> .....	21
<i>Three or more courses selected from</i> .....	9
ECON-3360 International Trade and Economics.....	3
ECON-3380 Economic Development and Political Economy .....	3
HIST-3080 History of Russia and the Soviet Union .....	3
INTL-3200 History and Politics of Latin America .....	3
INTL-3210 History and Politics of Asia .....	3
INTL-3220 History and Politics of the Middle East .....	3
INTL-3230 History and Politics of Western Europe .....	3
INTL-3240 History and Politics of Eastern Europe .....	3
INTL-3250 History and Politics of Central & South Asia .....	3
INTL-3540 History and Politics of Africa .....	3
INTL-3790 Comparative Politics .....	3
INTL-4050 Great Power Diplomacy in the Modern World .....	3
INTL-4160 International and Domestic Terrorism .....	3
INTL-4800 Seminar in International Studies .....	3
INTL-4980 Independent Study in International Studies .....	1-3
<i>At least one course from philosophy and theology</i> .....	3
BEPH-3250 Philosophy of Religion .....	3
BEPT-3450 Contemporary World Missions .....	3
<i>At least one course in language and literature</i> .....	3
LIT-3400 Studies in Contemporary World Literature.....	3
LIT-XXXX Any Non-American Literature Course .....	3
LING-3080 Linguistics for Language Learning .....	3
<i>Additional required cognates</i> .....	8-16
Intermediate Foreign Language.....	8-16

\*Capstone course

Students are also expected to have an in-depth cross-cultural experience in a non-American culture (at least 6 weeks). Travel Study must be approved by the department.

### International Studies Major- Social Science Concentration Curriculum Summary:

Proficiency Requirements .....	0-5
Other General Education Requirements .....	40-43
International Studies Core Requirements.....	21
Social Science Concentration Requirements .....	30
Required Cognates .....	7-15
Electives .....	19-30
<b>Total (minimum, not including proficiency)</b> .....	<b>128</b>

### Suggested Four-Year Curriculum for a Major in International Studies

*First year:*

ANTH-Cultural Anthropology .....	3
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 English Composition .....	3
GSS-1100 Politics and American Culture .....	3
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
Literature Elective .....	3
Physical Education Activity Elective.....	1
Quantitative Elective .....	3
<b>Total</b> .....	<b>32.5</b>

*Second year:*

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2260 Religion and Culture .....	3
COM-3140 Intercultural Communication .....	3
(or PSYCH-1800 Cross Cultural Psychology .....	3)
GEO-3510 World Regional Geography-West .....	3
(or GEO-3520 World Regional Geography-East .....	3)
HIST-2010 History of Civilization I .....	3
(or HIST-2020 History of Civilization II .....	3)
Elementary Foreign Language, if needed .....	0-8
Physical Science Elective .....	3.5
Electives.....	4-12
<b>Total</b> .....	<b>31.5</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
BUS-2910 International Business.....	3
INTL-3190 Global Issues .....	3
POLS-3650 International Relations .....	3
POLS-3350 Comparative Economic Systems .....	3
Intermediate Foreign Language.....	7
Social Science Electives .....	6
Electives.....	6
<b>Total</b> .....	<b>33</b>

*Fourth year:*

BEGE-3760 Christian Worldview Integration.....	2
INTL-4850 Research in International Studies .....	3
Social Science Electives .....	15
Electives.....	11
<b>Total</b> .....	<b>31</b>

A complete description of the general education requirements is found on page 18

### 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. Besides training students in a core area of courses, the major gives students the opportunity to focus their studies by choosing a concentration either in American politics, international relations, or political philosophy.

Course requirements involve 43 semester hours including:

<i>Political Science Core</i> .....	43
ECON-3380 Economical Develop and Political Economy .....	3
ENG-3110 Style and Mechanics for Writers .....	3
GSS-3630 Data Analysis and Research Methodology .....	4
HIST-1110 United States History I .....	3
(or 1120 United States History II .....	3)
HIST-2010 History of Civilization I .....	3
(or HIST-2020 History of Civilization II .....	3)
POLS-2000 Introduction to Political Science.....	3
POLS-2100 American Political Institutions .....	3
POLS-3600 Public Administration .....	3
POLS-3650 International Relations .....	3
POLS-3710 Christian Political Thought.....	3
POLS-3720 Politics and Postmodernism .....	3
POLS-3790 Comparative Politics .....	3
*POLS-4900 Research in Political Science.....	3
<i>Political Science elective selected from</i> .....	3
POLS-3640 Campaign and Elections .....	3
POLS-4620 Religion and American Politics.....	3
POLS-4630 American Constitutional Law .....	3
POLS-4800 Seminar in International Studies .....	3

\*Capstone Course

#### Political Science Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	46-54
Political Science Major Requirements .....	43
Electives .....	31-39
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Classes are taught by dedicated Christians who are specialists in their specific fields.

#### Suggested Four-Year Curriculum for a Major in Political Science

##### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110 United States History (before 1865).....	3
(or HIST-1120 United States History (after 1865) .....	3)
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Science Elective .....	3.5
Physical Education Activity Elective.....	1
Electives.....	6
<b>Total.....</b>	<b>32.5</b>

##### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
GSS-3630 Data Analysis and Research Methodology .....	4
HIST-2010 History of Civilization I .....	3
(or HIST-2020 History of Civilization II .....	3)
POLS-2000 Introduction to Political Science .....	3
POLS-2100 American Political Institutions.....	3
Humanities Elective .....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Global Awareness Elective .....	3
<b>Total.....</b>	<b>31.5</b>

##### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
ECON-3380 Economical Development and Political Economy .....	3
ENG-3110 Style and Mechanics for Writers .....	3
POLS-3600 Public Administration.....	3
POLS-3650 International Relations .....	3
POLS-3710 Christian Political Thought .....	3
POLS-3720 Politics and Postmodernism.....	3
Electives.....	9
<b>Total.....</b>	<b>31</b>

##### Fourth year:

POLS-3790 Comparative Politics .....	3
POLS-4900 Research in Political Science.....	3
Political Science Elective .....	3
Electives.....	24
<b>Total.....</b>	<b>33</b>

### 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 58 semester hours including:

<i>Prelaw Core Requirements</i> .....	49
ACCT-2110, 2120 Principles of Accounting I & II .....	6
BEPH-2200 Introduction to Philosophy .....	3
BEPH-2240 Logic .....	3
BEPH-2250 Ethics .....	3
ECON-2330 Microeconomics .....	3
ENG-3110 Style and Mechanics for Writers .....	3
GSS-3630 Data Analysis and Research Methodology .....	4
HIST-1110, 1120 United States History I & II .....	6
HIST-2010, 2020 History of Civilization I & II .....	6
HIST-3710 Christian Political Thought .....	3
POLS-4630 American Constitutional Law .....	3
*POLS-4700 Prelaw Seminar .....	3
SOC-2300 Principles of Sociology .....	3
<i>Select one course from the following</i> .....	3
COM-2000 Persuasive Theory .....	3
COM-3120 Argumentation and Debate .....	3
<i>Select two prelaw electives from the following</i> .....	6
HIST-3720 Politics and Postmodernism .....	3
POLS-2100 American Political Institutions .....	3
PUAD-3600 Public Administration .....	3
PSYCH-1600 General Psychology .....	3

\*Capstone Course

### Prelaw Major Curriculum Summary

Proficiency Requirements .....	0-6
Other General Education Requirements .....	46-54
Prelaw Major Requirements .....	58
Electives (consultation with advisor) .....	16-24
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Cedarville professors strive to integrate a biblical perspective in every class.

### Suggested Four-Year Curriculum for a Major in Prelaw

#### First year:

BEGE-1710 Christian Life and Thought .....	3
BEGE-1720 Spiritual Formation .....	3
COM-1100 Fundamentals of Speech .....	3
ENG-1400 Composition .....	3
GSS-1100 Politics and American Culture .....	3
HIST-1110, 1120 United States History I and II .....	6
HUM-1400 Introduction to the Humanities .....	3
PEF-1990 Physical Activity and the Christian Life .....	1
Biological Sciences Elective .....	3.5
Physical Education Activity Elective .....	1
Physical Science Elective .....	3.5
<b>Total .....</b>	<b>33</b>

#### Second year:

ACCT-2110, 2120 Principles of Accounting I and II .....	6
BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature .....	3
BEPH-2200 Introduction to Philosophy .....	3
BEPH-2240 Logic .....	3
BEPH-2250 Ethics .....	3
ECON-2330 Microeconomics .....	3
HIST-2010, 2020 History of Civilization I, II .....	6
Global Awareness Elective .....	3
<b>Total .....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development .....	2
BEGE-3760 Christian Worldview Integration .....	2
ENG-3110 Style and Mechanics for Writers .....	3
GSS-3630 Data Analysis and Research Methodology .....	4
HIST-3710 Christian Political Thought .....	3
SOC-2300 Principles of Sociology .....	3
Humanities Elective .....	3
Literature Elective .....	3
Pre-Law Electives .....	6
Electives .....	3
<b>Total .....</b>	<b>32</b>

#### Fourth year:

COM-2000 Persuasive Theory .....	3
(or COM-3120 Argumentation and Debate .....	3)
POLS-4630 American Constitutional Law .....	3
POLS-4700 Prelaw Seminar .....	3
Electives .....	21
<b>Total .....</b>	<b>30</b>

### Public Administration

The **public administration major** prepares students to serve others with a vision toward improving the quality of life in their local community, state, or the nation. Public administration is an academic discipline historically developed from the interrelationships between government administration, business administration, and law. The major prepares students for careers in government, non-profit and business administration, as well as graduate and professional programs in public administration, the social sciences, management, public policy, social work, criminal justice, or law by utilizing courses in political science, business administration, economics, and law.

Course requirements involve 52 semester hours including:

<i>Public Administration Core Requirements</i> .....	43
ACCT-2110 Principles of Accounting I.....	3
*BEPH-2250 Ethics.....	3
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
ECON-3390 Public Finance.....	3
GSS-3630 Data Analysis and Research Methodology.....	4
MGMT-3500 Principles of Organization and Management.....	3
MRKT-3600 Principles of Marketing.....	3
POLS-2620 American State and Local Government.....	3
POLS-4630 American Constitutional Law.....	3
PUAD-3100 Public Budgeting.....	3
PUAD-3600 Public Administration.....	3
PUAD-3690 Public Policy.....	3
**PUAD-4800 Applied Public Administration.....	3
<i>Communication elective selected from the following</i> .....	3
COM-2000 Persuasive Theory.....	3
COM-3120 Argumentation and Debate.....	3
COM-3140 Intercultural Communication.....	3
COM-3230 Organizational Communication.....	3
COM-3250 Interviewing.....	3
<i>Business electives selected from the following</i> .....	6
ECON-3130 Government and Business.....	3
MGMT-3530 Human Resources Management.....	3
MGMT-3550 Organizational Behavior.....	3
<i>Public administration electives selected from the following</i> .....	0-15
GSS-4990 Social Science/History Internship.....	3-12
PUAD-4970 Independent Study in Public Administration.....	1-3

\*Satisfies humanities elective for general education requirements.

\*\*Capstone course

### Public Administration Major Curriculum Summary

Proficiency Requirements.....	0-6
Other General Education Requirements.....	46-54
Public Administration Major Requirements.....	52
Electives (Consultation with Advisor).....	22-30
<b>Total (minimum, not including proficiency).....</b>	<b>128</b>

### Suggested Four-Year Curriculum for a Major in Public Administration

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	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 the Christian Life.....	1
Biological Sciences Elective.....	3.5
History Elective.....	3
Physical Education Activity Elective.....	1
Physical Science Elective.....	3.5
<b>Total.....</b>	<b>30</b>

#### Second year:

ACCT-2110 Principles of Accounting I.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2250 Ethics.....	3
ECON-2330 Microeconomics.....	3
ECON-2340 Macroeconomics.....	3
POLS-2620 American State and Local Government.....	3
Global Awareness Elective.....	3
Literature Elective.....	3
Electives.....	6
<b>Total.....</b>	<b>33</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
ECON-3390 Public Finance.....	3
GSS-3630 Data Analysis and Research Methodology.....	4
MGMT-3500 Principles of Organization and Management.....	3
MRKT-3600 Principles of Marketing.....	3
PUAD-3100 Public Budgeting.....	3
PUAD-3600 Public Administration.....	3
PUAD-3690 Public Policy.....	3
Communication Elective.....	3
Elective.....	3
<b>Total.....</b>	<b>32</b>

#### Fourth year:

POLS-4630 American Constitutional Law.....	3
PUAD-4800 Applied Public Administration.....	3
Business Electives.....	6
Public Administration Electives.....	0-15
Electives.....	6-21
<b>Total.....</b>	<b>33</b>

## Sociology

The **sociology major** examines the social interaction of individuals in groups, organizations, and institutions. Particular attention is given to the cultural environment in which people live. Courses evaluate the influence of that environment and the relationships established in them, in light of scriptural norms and a Biblical view of God, society, and the individual.

Course requirements involve 37 semester hours including:

ANTH-1800 Cultural Anthropology .....	3
GSS-3630 Data Analysis and Research Methodology .....	4
PYCH-1600 General Psychology .....	3
PYCH-3690 Social Psychology .....	3
SOC-2300 Principles of Sociology .....	3
SOC-3730 Social Problems.....	3
SOC-3750 Social Movements .....	3
SOC-4720 Social Theory.....	3
*SOC-4800 Research in Sociology .....	3
<i>Elective hours in Sociology</i> .....	9

\*Capstone Course

### Sociology Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	43-51
Sociology Major Requirements.....	37
Electives .....	40-48
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>



Dr. Susan Warner, assistant professor of sociology, brings a wealth of knowledge and research to her classroom.

### Suggested Four-Year Curriculum for a Major in Sociology

#### First year:

ANTH-1800 Cultural Anthropology.....	3
BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	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 the Christian Life .....	1
PYCH-1600 General Psychology.....	3
Biological Sciences Elective .....	3.5
History Elective .....	3
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>32.5</b>

#### Second year:

BEGE-2730 Old Testament Literature .....	3
BEGE-2740 New Testament Literature.....	3
SOC-2300 Principles of Sociology.....	3
Literature Elective .....	3
Physical Science Elective .....	3.5
Electives.....	15
<b>Total.....</b>	<b>30.5</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration .....	2
GSS-3630 Data Analysis and Research Methodology .....	4
PYCH-3690 Social Psychology.....	3
SOC-3730 Social Problems .....	3
SOC-3750 Social Movements.....	3
Electives.....	15
<b>Total.....</b>	<b>32</b>

#### Fourth year:

SOC-4720 Social Theory .....	3
SOC-4800 Research in Sociology .....	3
Sociology Elective.....	9
Electives.....	18
<b>Total.....</b>	<b>33</b>

### 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.

#### Mission Statement

The mission of the social work program is to prepare and equip, from a biblical world and life view, social work students who are committed to the core values and purpose of social work, so that these students might obtain entry-level social work positions as generalist practitioners, improve the holistic quality of life of diverse populations in a variety of work settings, and pursue graduate-level education.

#### Goals

The goal of the social work program is ultimately to enable students to integrate the knowledge, values, and skills of the social work profession into competent practice by:

1. Providing content about social work practice from a generalist perspective with client systems of various sizes and types.
2. Preparing students with the skills, values, and knowledge to practice with diverse populations at risk.
3. Providing content about social contexts, the changing nature of those contexts, the behavior of organizations, and the dynamics of change.
4. Preparing students who are aware of their responsibility to continue their professional growth and development.
5. Preparing students to practice with populations at risk with unique discrimination and oppressive histories (with a special focus on poverty).
6. Integrating biblical principles throughout the curriculum so that students can appropriately integrate their faith and that of their clients into the helping relationship.
7. Laying a foundation of core skills essential to a high caliber of social work practice (i.e., problem solving, listening, verbal and written communication, and critical thinking).
8. Creating an appreciation for the profession as well as an understanding of the history, personalities, and issues and events that helped to shape it.
9. Infusing throughout the curriculum the values and ethics that guide professional social workers in their practice.
7. Apply knowledge of bio-psycho-social-spiritual variables that affect individual development and behavior and use theoretical frameworks to understand the interactions among individuals and between individuals and social systems (i.e., families, groups, organizations, and communities).
8. Analyze the impact of social policies on client systems, workers, and agencies.
9. Evaluate research studies and apply findings to practice and, under supervision, to evaluate their own practice interventions and those of other relevant systems.
10. Use communication skills differentially with a variety of client populations, colleagues, and members of the community.
11. Use supervision appropriate to generalist practice.
12. Function within the structure of organizations and service delivery systems and, under supervision, seek necessary organizational change.
13. Apply the knowledge, values, and skills of the profession to social work practice within the context of the local church and missions organizations.
14. Analyze and apply the knowledge, values, and skills of social work practice from a biblical world and life view.
15. Demonstrate an understanding, sensitivity, and commitment to issues related to poverty.
16. Demonstrate an understanding, sensitivity, and commitment to social work issues from a global/multicultural perspective.

#### Objectives

Graduates of the Cedarville University social work program will be able to:

1. Apply critical thinking skills within the context of professional social work practice.
2. Practice within the values and ethics of the social work profession and with an understanding of and respect for the positive value of diversity.
3. Demonstrate the professional use of self.
4. Understand the forms and mechanisms of oppression and discrimination and the strategies of change that advance social and economic justice.
5. Understand the history of the social work profession and its current structures and issues.
6. Apply the knowledge and skills of generalist social work to practice with systems of all sizes.

#### 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 annual meetings, these experts advise the University and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view. Council members include:

- Nelson Henning, Advisory Council Chair, Cedarville, OH*  
*Rebecca Combs, Greene County Children Services, Xenia, OH*  
*Susan Crumbacher, Crosswalk Ministries, Xenia, OH*  
*Elleen Hopkins Flores, Family Violence Prevention Center, Xenia, OH*  
*Christine Fulmer, Cedarville University, Cedarville, OH*  
*Jacinda Gillette, Junior Representative, Cedarville University, Cedarville, OH*  
*Jennifer Gilliam, Samaritan Behavioral Health, Inc., Dayton, OH*  
*Delton Hochstedler, Ben-El Child and Family Center, Urbana, OH*  
*George Huff, Cedarville University, Cedarville, OH*  
*Sonia Hunt, National Heritage Academy, Dayton, OH*  
*Greg Kelly, Lifeway for Youth, New Carlisle, OH*  
*Esther Lanham, Advisory Council Secretary, Cedarville University, Cedarville, OH*  
*Debbie Matheson, Family Violence Prevention Center*  
*Cari Maynard, The Bair Foundation, Columbus, OH*  
*Linda Moenter, Montgomery County Children Services, Dayton, OH*  
*Amy Miura, Senior Representative, Cedarville University, Cedarville, OH*  
*Kathleen Rhodes, Daybreak, Dayton, OH*  
*Deanna Throop, Xenia, OH*  
*William Voskuhl, Greene County Juvenile Court, Xenia, OH*

Continued on pages 222-223

# Social Sciences and History

## School of Social Sciences and Professional Studies

### 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

1. Complete at least 42.5 hours of the general education requirements, including the necessary social work course prerequisites. (Submit a summary of prerequisites.)
2. Complete SWK-1100 Total Immersion Experience with a "C" or better by Fall Semester of the junior year.
3. Complete SWK-2330 Introduction to Social Work with a "C" or better by Fall Semester of the junior year.
4. Complete SWK-2350 Field Survey with a "C" or better by Fall Semester of the junior year.
5. Complete SWK-2900 Ethics in the Helping Professions with a "C" or better by Fall Semester of the junior year.
6. Complete and submit an Application for Admission to the social work program director, including an autobiographical statement detailing your interest in social work and a significant life experience inventory describing your experience with the listed issues.
7. Submit letters of recommendation from your pastor, an employer or volunteer supervisor, and a teacher or adult friend.
8. Be interviewed by a minimum of two social work faculty.
9. Earn a cumulative GPA of 2.5 or above. Submit a copy of your current unofficial grade transcript from the office of the registrar.
10. Complete and document 40 hours of volunteer experience in a social service/community setting.
11. Provide a valid "No Record" 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.

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 faculty.

### Course Requirements

Course requirements for the B.S. degree with a major in social work involve 85.5 semester hours including:

<sup>1</sup> ANTH-1800 Cultural Anthropology .....	3
<sup>1</sup> BEPH-2200 Introduction to Philosophy .....	3
<sup>1</sup> BIO-1000 Principles of Biology.....	3.5
<sup>1</sup> HIST-3750 Social Movements.....	3
POLS-2620 American State and Local Government.....	3
PYCH-1600 General Psychology .....	3
SOC-2300 Principles of Sociology .....	3
<sup>2</sup> SWK-1100 Total Immersion Experience.....	2
<sup>2</sup> SWK-2330 Introduction to Social Work .....	3
<sup>2</sup> SWK-2350 Field Survey.....	2
SWK-2900 Ethics in the Helping Professions.....	3
<sup>3</sup> SWK-3010 Human Behavior and Social Environment .....	4
<sup>3</sup> SWK-3020 Generalist Social Work Practice with Multicultural Groups .....	3
<sup>3</sup> SWK-3110 Social Welfare Programs and Policy.....	4
<sup>3</sup> SWK-3210 Social Work Practice with Individuals and Families.....	4
<sup>3</sup> SWK-3430 Junior Seminar I.....	1
<sup>3</sup> SWK-3440 Junior Field Experience I .....	3
<sup>3</sup> SWK-3450 Junior Seminar II.....	1
<sup>3</sup> SWK-3460 Junior Field Experience II .....	3
<sup>1,3</sup> SWK-3610 Data Analysis .....	3
<sup>3</sup> SWK-3620 Social Work Research Methods .....	3
<sup>3</sup> SWK-4210 Social Work Practice with Special Populations .....	3
<sup>3</sup> SWK-4220 Social Work Practice with Communities and Organizations.....	4
<sup>3*</sup> SWK-4510 Senior Seminar I .....	2
<sup>3*</sup> SWK-4520 Senior Seminar II .....	2
<sup>3*</sup> SWK-4560 Senior Field Experience I.....	7
<sup>3*</sup> SWK-4570 Senior Field Experience II.....	7

<sup>1</sup>Satisfies general education requirement.

<sup>2</sup>Available to non-majors.

<sup>3</sup>Available only to social work majors who have been accepted into the program.

\*Capstone Course

### Recommended elective:

SWK-2840 Concepts of Chemical Dependency.....	3
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### Social Work Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements .....	42.5
Social Work Major Requirements.....	85.5
<b>Total (minimum, not including proficiency) .....</b>	<b>128</b>

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 18

### Suggested Four-Year Curriculum for a Major in Social Work

*First year:*

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology.....	3.5
COM-1100 Fundamentals of Speech.....	3
ENG-1400 Composition.....	3
GSS-1100 Politics and American Culture.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
PYCH-1600 General Psychology.....	3
SOC-2300 Principles of Sociology.....	3
SWK-1100 Total Immersion Experience.....	2
SWK-2330 Introduction to Social Work.....	3
SWK-2350 Field Survey.....	2
<b>Total.....</b>	<b>32.5</b>

*Second year:*

ANTH-1800 Cultural Anthropology.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
BEPH-2200 Introduction to Philosophy.....	3
HIST-3750 Social Movements.....	3
HUM-1400 Introduction to the Humanities.....	3
POLS-2620 American State and Local Government.....	3
SWK-2900 Ethics in the Helping Professions.....	3
Physical Science Elective.....	3.5
Science Elective.....	3
<b>Total.....</b>	<b>30.5</b>

*Third year:*

BEGE-3750 Christian Worldview Development.....	2
SWK-3010 Human Behavior and Social Environment.....	4
SWK-3020 Generalist Social Work Practice with Multicultural Groups.....	3
SWK-3110 Social Welfare Programs and Policy.....	4
SWK-3210 Social Work Practice with Individuals and Families.....	4
SWK-3430, 3450 Junior Seminar I, II.....	2
SWK-3440, 3460 Junior Field Experience I, II.....	6
Literature Elective.....	3
Physical Education Activity Elective.....	1
Science/Math Elective.....	3
<b>Total.....</b>	<b>32</b>

*Fourth year:*

BEGE-3760 Christian Worldview Integration.....	2
SWK-3610 Data Analysis.....	3
SWK-3620 Social Work Research Methods.....	3
SWK-4210 Social Work Practice with Special Populations.....	3
SWK-4220 Social Work Practice with Communities and Organizations.....	4
SWK-4510, 4520 Senior Seminar I, II.....	4
SWK-4560, 4570 Senior Field Experience I, II.....	14
<b>Total.....</b>	<b>33</b>



# Social Sciences and History

School of Social Sciences and Professional Studies

## 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 education department section of this catalog.

Course requirements involve 43 semester hours including:

<i>Integrated Social Studies Core</i> .....	43
ANTH-1800 Cultural Anthropology.....	3
COM-2300 Voices of Diversity.....	3
ECON-2330 Microeconomics.....	3
EDSE-3800 Teaching Social Studies: AYA.....	2
GEO-3510 World Regional Geography–West.....	3
GEO-3520 World Regional Geography–East.....	3
GSS-1100 Politics and American Culture.....	3
GSS-3810 Clinical Teaching in Social Studies I.....	1
GSS-3820 Clinical Teaching in Social Studies II.....	1
HIST-1110, 1120 United States History.....	6
HIST-2010, 2020 History of Civilization I & II.....	6
HIST-3200 History and Politics of Latin America.....	3
(or HIST-3210 History and Politics of Asia.....)	3
(or HIST-3220 History and Politics of the Middle East.....)	3
(or HIST-3250 History and Politics of Central/South Asia.....)	3
(or HIST-3540 History and Politics of Africa.....)	3
HIST/SOC-3750 Social Movements.....	3
SOC-2300 Principles of Sociology.....	3

<i>Teacher Education</i> .....	36-38
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching: AYA.....	5
EDSE-4450 Adolescent/Young Adult Clinical.....	3
*EDSE-4900 Student Teaching and Seminar– <i>Adolescent/Young Adult</i> .....	10-12
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDSP-4000 Principles of Inclusion.....	1
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
EDUC-4500 Philosophy of Education.....	2

\*Capstone Course

Students must also select a concentration in economics, geography, history, political science, or sociology.

<i>Economics concentration</i> .....	16
ECON-2340 Macroeconomics.....	3
ECON-3340 History of Economic Thought.....	3
GSS-3620 Data Analysis & Research Methodology.....	4
<i>Economics Elective selected from</i> .....	6
ECON-3310 International Money and Capital Markets.....	3
ECON-3350 Comparative Economic Systems.....	3
ECON-3360 International Trade Economics.....	3
ECON-3370 Labor Economics.....	3
ECON-3390 Public Finance.....	3

<i>Geography Concentration</i> .....	13
GSS-3630 Data Analysis and Research Methodology.....	4
<i>Geography Electives selected from (must differ from core)</i> .....	9
HIST-3200 History and Politics of Latin America.....	3
HIST-3210 History and Politics of Asia.....	3
HIST-3220 History and Politics of the Middle East.....	3
HIST-3540 History and Politics of Africa.....	3
INTL-4850 Research in International Studies.....	3

<i>History Concentration</i> .....	12
<i>Student must choose one of the following:</i> .....	2-3
HIST-2000 Introduction to History.....	2
HIST-3000 Introduction to Historiography.....	3
<i>History Electives selected from</i> .....	9-10
HIST-3030 History of Christianity: Pre-Reformation.....	3
HIST-3040 History of Modern Britain.....	3
HIST-3050 Renaissance and Reformation Europe.....	3
HIST-3070 Europe in the 18th and 19th Century.....	3
HIST-3080 History of Russia and the Soviet Union.....	3
HIST-3110 Early American History.....	3
HIST-3120 History of Recent Contemporary America.....	3
HIST-3130 Civil War and Reconstruction.....	3
HIST-3230 History and Politics of Western Europe.....	3
HIST-3230 History and Politics of Eastern Europe.....	3
HIST-4050 Great Power Diplomacy in the Modern World.....	3
HIST-4440 Special Topics in History.....	1-3
HIST-4950 Independent Study in History.....	1-3

<i>Political Science Concentration</i> .....	13
GSS-3630 Data Analysis and Research Methodology.....	4
POLS-2620 American State and Local Government.....	3
<i>Political Science Elective selected from</i> .....	6
POLS-2000 Introduction to Political Science.....	3
POLS-3360 American Judicial Systems.....	3
POLS-3650 International Relations.....	3
POLS-3710 Christian Political Thought.....	3
POLS-3720 Politics and Postmodernism.....	3
POLS-4050 Great Power Diplomacy in the Modern World.....	3
POLS-4620 Religion & American Politics.....	3
POLS-4630 American Constitutional Law.....	3

<i>Sociology Concentration</i> .....	13
GSS-3630 Data Analysis and Research Methodology.....	4
SOC-4720 Social Theory.....	3
<i>Sociology Electives selected from</i> .....	6
SOC-2200 Criminology.....	3
SOC-2310 Juvenile Delinquency.....	3
SOC-2400 Marriage and the Family.....	3
SOC-2840 Concepts of Chemical Dependency.....	3
SOC-2900 Ethics in the Helping Professions.....	3
SOC-3330 Social Stratification.....	3
SOC-3340 Sociology of Religion.....	3
SOC-3710 Family and Society.....	3
SOC-3730 Social Problems.....	3

## Social Studies Education - Integrated Major Curriculum Summary

Proficiency Requirements.....	0-5
Other General Education Requirements.....	40-48
Integrated Social Studies Ed. Major Requirements.....	55-59
Teacher Education Requirements.....	36-38
<b>Total (minimum, not including proficiency)</b> .....	<b>131</b>

A complete description of the general education requirements is found on page 18

### Suggested Four-Year Curriculum for a Major in Social Studies Education - Integrated

#### First year:

BEGE-1710 Christian Life and Thought.....	3
BEGE-1720 Spiritual Formation.....	3
BIO-1000 Principles of Biology.....	3.5
COM-1100 Fundamentals of Speech.....	3
EDUC-1000 The Education Profession.....	1
EDUC-1050 Contemporary Christian Schools.....	0
ENG-1400 Composition.....	3
GSCI-1020 Principles of Physical Science.....	3.5
GMTH-1010 Introduction to Mathematics.....	3
HIST-1110, 1120 United States History.....	6
HUM-1400 Introduction to the Humanities.....	3
PEF-1990 Physical Activity and the Christian Life.....	1
Physical Education Activity Elective.....	1
<b>Total.....</b>	<b>34</b>

#### Second year:

ANTH-1800 Cultural Anthropology.....	3
BEGE-2730 Old Testament Literature.....	3
BEGE-2740 New Testament Literature.....	3
ECON-2330 Microeconomics.....	3
EDSP-2000 Teaching Children with Exceptionalities.....	2
EDSP-2050 Special Education Field Experience.....	1
EDUC-2000 Introduction to Teaching.....	2
EDUC-2100 Technology in the Classroom.....	2
EDUC-2200 Multicultural Field Experience.....	1
EDUC-2500 Educational Psychology.....	3
GEO-3510 World Regional Geography–West.....	3
GEO-3520 World Regional Geography–East.....	3
GSS-1100 Politics and American Culture.....	3
SOC-2300 Principles of Sociology.....	3
<b>Total.....</b>	<b>35</b>

#### Third year:

BEGE-3750 Christian Worldview Development.....	2
BEGE-3760 Christian Worldview Integration.....	2
EDSE-4000 Reading in the Content Area: AYA.....	3
EDSE-4100 Principles of Teaching: AYA.....	5
EDSE-4450 AYA Clinical.....	3
GSS-3810 Clinical Teaching in Social Studies I.....	1
GSS-3820 Clinical Teaching in Social Studies II.....	1
HIST-2010, 2020 History of Civilization I, II.....	6
HIST-3200 History and Politics of Latin America.....	3
(or HIST-3210 History and Politics of Asia.....)	(3)
(or HIST-3220 History and Politics of the Middle East.....)	(3)
(or HIST-3250 History and Politics of Central/South Asia.....)	(3)
(or HIST-3450 History and Politics of Africa.....)	(3)
Concentration Requirement.....	0-5
Literature Elective.....	3
<b>Total.....</b>	<b>29-34</b>

#### Fourth year:

COM-2300 Voices of Diversity.....	3
EDSE-3800 Teaching Social Studies: Adol/Young Adult.....	2
EDSE-4900 Student Teaching and Seminar: AYA.....	10-12
EDSP-4000 Principles of Inclusion.....	1
EDUC-4500 Philosophy of Education.....	2
HIST-3750 Social Movements.....	3
Concentration Requirements.....	7-12
<b>Total.....</b>	<b>28-33</b>

## Minors

### Criminal Justice Minor

Course requirements for a minor in criminal justice involve 18 semester hours including:  
 CRJU-1310 Introduction to Criminal Justice..... 3  
 CRJU-XXXX Criminal Justice Electives..... 15

### History Minor

Course requirements for a minor in history involve 17 semester hours including:  
 HIST-1110, 1120 United States History..... 6  
 HIST-2010, 2020 History of Civilization I, II..... 6  
 HIST-XXXX History Electives..... 5

### International Studies-Social Science Minor

Course requirements for a minor in international studies-social science involve 18 semester hours including:  
 9 credit hours selected from the International Studies Core requirements..... 9  
 6 Social Science credit hours selected from the International Studies-Social Science curriculum..... 6  
 3 credit hours selected from the International Studies-Social Science curriculum..... 3

### Political Science Minor

Course requirements for a minor in political science involve 18 semester hours including:  
 POLS-2000 Introduction to Political Science..... 3  
 PUAD-3600 Public Administration..... 3  
 POLS-XXXX Political Science Electives..... 12

### Public Administration Minor

Course requirements for a minor in public administration involve 18 semester hours including:  
 MGMT-3500 Principles of Organization and Management..... 3  
 POLS-4630 American Constitutional Law..... 3  
 PUAD-3600 Public Administration..... 3  
 PUAD-3690 Public Policy..... 3  
 PUAD-4640 Strategies for Public Administration..... 3  
 ECON, POLS, or PUAD Electives..... 3

### Sociology Minor

Course requirements for a minor in sociology involve 18 semester hours including:  
 SOC-2300 Principles of Sociology..... 3  
 SOC-XXXX Sociology Electives..... 15

# Social Sciences and History

School of Social Sciences and Professional Studies

## Course Descriptions

### Departmental Courses

#### **GSS-1000 Foundations of Social Science—Fa,Sp 3 Hours**

Designed to provide the student with a knowledge of basic concepts in sociology, economics, and political science from a Christian perspective.

#### **GSS-1010 Contemporary Worldviews—Su 2-3 hours**

An exploration of the assumptions of contemporary approaches to issues in society. Includes the study of Naturalism, Transcendentalism, Theism and Post-modernism with an emphasis in the areas of ethics, sociology, political science, history, economics, and law. *Prerequisite: completion of the Summit Ministries Leadership Conference for a choice of two or three hours of academic credit.*

#### **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.

#### **GSS-3630 4 hours**

#### **Data Analysis and Research Methodology—Fa**

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-3810,3820 1 hour each**

#### **Clinical Teaching in the Social Sciences—Fa,Sp**

Practical, on-campus, one credit hour experience in which a student is assigned to assist a college instructor in the preparation of tests and quizzes, grading, research, and other 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 his or her 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-4990 Social Science/History Internship 3-12 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 12 hours of credit.

#### **CRJU-4440 - SWK-4440 Special Topics 1-3 hours**

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

#### **CRJU-4440 Special Topics - Criminal Justice**

#### **GEO-4440 Special Topics - Geography**

#### **HIST-4440 Special Topics - History**

#### **INTL-4440 Special Topics - International Studies**

#### **POLS-4440 Special Topics - Political Science**

#### **PUAD-4440 Special Topics - Public Administration**

#### **SOC-4440 Special Topics - Sociology**

#### **SWK-4440 Special Topics - Social Work**

#### **ANTH-4940 through SWK-4950 1-3 hours**

#### **Independent Study in Social 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.*

#### **ANTH-4940 Anthropology**

#### **CRJU-4960 Criminal Justice**

#### **GEO-4920 Geography**

#### **HIST-4900 History**

#### **INTL-4980 International Studies**

#### **POLS-4930 Political Science**

#### **PUAD-4970 Public Administration**

#### **SOC-4910 Sociology**

#### **SWK-4950 Social Work**

### Anthropology

#### **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.

### Criminal Justice

#### **CRJU-1310 Introduction to Criminal Justice—Fa 3 hours**

Introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized in an open systems sense as interacting and interdependent institutions. On occasion, timely issues will be considered as they relate to criminal justice agencies.

#### **CRJU-1350 1 hour**

#### **Career Planning for the Criminal Justice Professional—Sp**

The course is designed to provide an understanding of how to select the right major as a student and how to identify your professional career aspiration. Understanding one's unique skill set, interest, and God's will is paramount to identifying the correct vocation to select. This course will utilize two personal assessment instruments to help students better understand their personal profile in relationship to professional opportunities. Students will learn the fundamentals of how to develop and implement a career plan. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

#### **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 Delinquency—Sp 3 hours**

Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (Fee: \$30)



### CRJU-2700

3 hours

**Financial Management for Social Science Professionals–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.

### CRJU-2840 Concepts of Chemical Dependency–Sp 3 hours

Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse and methods of assessment, intervention, and treatment. Crosslisted as CRJU, SOC, or SWK. *Prerequisite: PSYCH-1600 General Psychology; SOC-2300 Principles of Sociology; or permission of instructor.*

### CRJU-3300 Corrections–Sp 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-3320 Criminal Investigation–Fa 3 hours

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-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 3 hours

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. Crosslisted as CRJU or POLS. *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.*

### CRJU-3400 Criminal Procedure–Sp 3 hours

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-3410 3 hours

### Ethics and Civil Liability for Criminal Justice Personnel–Sp

Focuses on civil liability issues with a review of pertinent U.S. Supreme Court decisions. Emphasis on federal civil liability, tort liability and damages, acts of negligent employment, qualified immunity, seizures and civil liability, special duty to protect, liability for policy or custom, and preventive measures. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

### CRJU-4150 Homeland Security–Fa 3 hours

This course will study emergency planning and response management, multi-jurisdictional and interagency coordination, specific threats and advisory system, intelligence for policymaking, and the Homeland Security Act. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*

### CRJU-4160 International & 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.

### 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-4330 3 hours

### Contemporary Issues in Criminal Justice–Sp

Analysis of key issues influencing the criminal justice system.

### CRJU-4630 American Constitutional Law–Sp 3 hours

In-depth analysis of selected Supreme Court decisions and their relevance to political, social, economic, and religious dimensions of American life.

### CRJU-4900 Research Issues in Criminal Justice–Fa 3 hours

This is a capstone course for criminal justice majors. The class 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 class will prepare a project that will be presented in a public forum. *Prerequisite: senior status as a CRJU major. (fee: \$100)*

### Geography

### GEO-3080 History of Russia and the Soviet Union–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

### 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. (even years)



# Social Sciences and History

## School of Social Sciences and Professional Studies

### **GEO-3210 History and Politics of Asia—Sp 3 hours**

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. Crosslisted as GEO, HIST, INTL, or POLS. (odd 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. (even years)

### **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. (odd years)

### **GEO-3240 History and Politics of Eastern Europe—Sp 3 hours**

This overview course will cover the geography, history, politics, and international relations of Eastern Europe from prehistory to the present. While special attention will be given to the religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

### **GEO-3250 History and Politics of Central & South Asia—Fa 3 hours**

This overview course will cover geography, history, politics, and international relations of Central and South Asia to the present. While special attention will be given to religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEP, HIST, INTL, or POLS. (odd years)

### **GEO-3510 World Regional Geography—Western Hemisphere—Fa 3 hours**

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 World Regional Geography—Eastern Hemisphere—Sp 3 hours**

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-3540 History and Politics of Africa—Sp 3 hours**

This course will begin with the landing of the Ark on Ararat, discuss the origins of the Hamatic, Semetic, and the Japethitic peoples of Africa, and trace their histories to the modern day. The problems of slavery, colonialism, socialism, Islam, de-colonization, corruption, poverty, AIDS, tropical diseases, and women's issues. This class should not be taken by freshmen. Crosslisted as GEO, HIST, INTL, or POLS. *Prerequisite: permission of instructor* (even years).

### **History**

### **HIST-1110 United States History I—Fa 3 hours**

### **HIST-1120 United States History II—Sp 3 hours**

Analysis of the development of the United States from the colonial period to the present. Attention is given to the dominant Christian influences that have tended to mold the philosophy and ideology of our cultural, social, and political development.

### **HIST-2000 Introduction to History—Fa 2 hours**

An introduction to the field of history as it pertains to both the academic and the public historian. Emphasis will be given to historical inquiry, source evaluation, analysis and synthesis, research methodology, formal historical writing, and career opportunities. Introduction to History should be taken in the sophomore year.

### **HIST-2010 History of Civilization I—Fa 3 hours**

### **HIST-2020 History of Civilization II—Sp 3 hours**

This survey of human history begins at the advent of civilized life in the ancient Near East and continues into the twentieth century. It presents the religious, social, political, and intellectual development of mankind from a Christian interpretive point of view.

### **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 History of Christianity: Pre-Reformation—Sp 3 hours**

Survey of ancient and medieval church history with emphasis given to doctrinal and institutional developments. (even years)

### **HIST-3040 History of Modern Britain—Fa 3 hours**

A survey of the events, major individuals, and ideas of modern Great Britain, including Scotland and Ireland, from the time just prior to the Reformation to the twentieth century. The class will focus on the influence of British ideas on American Culture and religion, the rise of classical liberalism and the free market system, the role of socialism, the age of colonialism, the common law, Reformed theology from Puritanism and Scottish Presbyterianism, and other movements and ideas.

### **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. (odd years)

### **HIST-3070 Europe in the 18th & 19th Century: Continuity & Change—Sp 3 hours**

A survey of the period spanning the mid-seventeenth century through about 1918, including the Enlightenment. The course will include the many political, social, and ideological changes of the eighteenth and nineteenth centuries. (even years)

### **HIST-3080 History of Russia and the Soviet Union—Fa 3 hours**

This course will cover not only Soviet history but also the 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.

### **HIST-3110 Early American History—Fa 3 hours**

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 History of Recent and Contemporary America—Fa 3 hours**

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. *Prerequisite: HIST-1120 United States History or permission of instructor.*

### **HIST-3130 Civil War and Reconstruction—Sp 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.* (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. (even years)

### **HIST-3210 History and Politics of Asia—Fa 3 hours**

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (odd 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. (even years)

### **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. (odd years)

### **HIST-3240 History and Politics of Eastern Europe—Sp 3 hours**

This overview course will cover the geography, history, politics, and international relations of Eastern Europe from prehistory to the present. While special attention will be given to the religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

### **HIST-3250 History and Politics of Central & South Asia—Fa 3 hours**

This overview course will cover geography, history, politics, and international relations of Central and South Asia to the present. While special attention will be given to religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

### **HIST-3540 History and Politics of Africa—Sp 3 hours**

This course will begin with the landing of the Ark on Ararat, discuss the origins of the Hamatic, Semetic, and the Japethitic peoples of Africa, and trace their histories to the modern day. Special emphasis will be given to the problems of slavery, colonialism, socialisam, Islam, de-colonization, corruption, poverty, AIDS, tropical diseases, and women's issues. This class should not be taken by freshmen. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

### **HIST-3710 Christian Political Thought—Fa 3 hours**

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. *Prerequisite: major or minor in history or political science or permission of instructor.*

### **HIST-3720 Politics and Postmodernism—Sp 3 hours**

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 history or political science or permission of instructor.*

### **HIST-3750 Social Movements—Fa,Sp 3 hours**

Study of the influence of ideas and institutions upon social movements in America. May be Crosslisted as HIST or SOC



### **HIST-4050 Great Power Diplomacy in the Modern World—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-4110 Interpretations in American History—Fa 3 hours**

Study of selected historical problems in America. Emphasis placed on new interpretations and their impact.

### **HIST-4700 Research in American History—Fa,Sp 3 hours**

### **HIST-4710 Research in European History—Sp 3 hours**

### **HIST-4720 Research in Asian History 3 hours**

All majors are required to take either HIST-4700, HIST-4710, or HIST-4720. Each student will prepare a formal monograph. *Prerequisite: major or minor in history. (Fee:\$100)*

### **International Studies**

### **INTL-3080 History of Russia and the Soviet Union—Fa 3 hours**

See course description for GEO-3080 History of Russia and the Soviet Union.

### **INTL-3190 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.

### **INTL-3200 History and Politics of Latin America—Fa 3 hours**

See course description for GEO-3200 History and Politics of Latin America. (even years)

### **INTL-3210 History and Politics of Asia—Fa 3 hours**

See course description for GEO-3210 History and Politics of Asia. (odd 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. (even years)

### **INTL-3230 History and Politics of Western Europe—Sp 3 hours**

See course description for GEO-3230 History and Politics of Western Europe. (odd years)

### **INTL-3240 History and Politics of Eastern Europe—Sp 3 hours**

See course description for GEO-3240 History and Politics of Eastern Europe. (even years)

# Social Sciences and History

## School of Social Sciences and Professional Studies

- INTL-3250 History and Politics of Central & South Asia—Fa** 3 hours  
See course description for GEO-3250 History and Politics of Central & South Asia. (odd years)
- INTL-3540 History and Politics of Africa—Sp** 3 hours  
See course description for GEO-3540 History and Politics of Africa. (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-4050 Great Power Diplomacy in the Modern World—Sp** 3 hours  
See course description for HIST-4050 Great Power Diplomacy in the Modern World.
- INTL-4160 International & 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-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.
- INTL-4850 Research in International Studies—Sp** 3 hours  
Students will prepare and present a formal research project on a country, region, or significant international issue. Crosslisted as INTL or POLS. (Fee:\$100)
- Political Science**
- POLS-2000 Introduction to Political Science—Fa** 3 hours  
This course offers students a window into the discipline of political science. Students will be exposed to basic methods of the discipline, the fundamental issues of biblical integration and political science, as well as the dominant sub-fields: American politics, comparative politics, international relations, and political philosophy.
- POLS-2100 American Political Institutions—Sp** 3 hours  
This course is an introduction to the legislative, executive, and judicial branches of government. This course focuses on the constitutional structure of all three branches, as well as their historical and political development, and it introduces students to the variety of approaches scholars use when studying the branches of government.
- POLS-2250 Popular Culture and Politics—Sp** 3 hours  
This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC.
- POLS-2620 American State and Local Government—Sp** 3 hours  
The organization and function of states and their political subdivisions form the basis of study in this course.
- POLS-3080 History of Russia and the Soviet Union—Fa** 3 hours  
See course description for GEO-3080 History of Russia and the Soviet Union.
- POLS-3100 Public Budgeting—Fa** 3 hours  
See course description for PUAD-3100 Public Budgeting.
- POLS-3190 Global Issues—Sp** 3 hours  
See course description for INTL-3190 Global Issues.
- POLS-3200 History and Politics of Latin America—Fa** 3 hours  
See course description for GEO-3200 History and Politics of Latin America. (even years)
- POLS-3210 History and Politics of Asia—Fa** 3 hours  
See course description for GEO-3210 History and Politics of Asia. (odd years)
- POLS-3220 History and Politics of the Middle East—Sp** 3 hours  
See course description for GEO-3220 History and Politics of the Middle East.
- POLS-3230 History and Politics of Western Europe—Sp** 3 hours  
See course description for GEO-3230 History and Politics of Western Europe. (odd years)
- POLS-3240 History and Politics of Eastern Europe—Sp** 3 hours  
See course description for GEO-3240 History and Politics of Eastern Europe. (even years)
- POLS-3250 History and Politics of Central & South Asia—Fa** 3 hours  
See course description for GEO-3250 History and Politics of Central & South Asia. (odd years)
- POLS-3360 American Judicial System—Fa** 3 hours  
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 or POLS. *Prerequisite: CRJU-1310 Introduction to Criminal Justice.*
- POLS-3540 History and Politics of Africa—Sp** 3 hours  
See course description for GEO-3540 History and Politics of Africa. (even years)
- POLS-3600 Public Administration—Fa** 3 hours  
See course description for PUAD-3600 Public Administration.
- POLS-3640 Campaigns and Elections—Fa** 3 hours  
This course examines the fluid nature of political campaigns and elections in modern American politics. Students will study the strategies of political campaigns, including use of the media, fundraising, and resource allocation, as well as individual-level voting behavior as it is practiced in the context of campaigns. *Prerequisite: GSS-1100 Politics and American Culture* (even years)
- 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.
- POLS-3710 Christian Political Thought—Fa** 3 hours  
See course description for HIST-3710 Christian Political Thought.
- POLS-3720 Politics and Postmodernism—Sp** 3 hours  
See course description for HIST-3720 Politics and Postmodernism.
- POLS-3790 Comparative Politics—Fa** 3 hours  
The purpose of this class is to familiarize the student with the major historical and political debates of comparative politics. Particular emphasis will be placed on the topics of political economy, new institutionalism, ethnic conflict, state and nation building, sources of prosperity, corruption, political communication, and political parties. Other important topics covered will be the role of women in society, economic development, ideology, cultural values and traditions, and religion in politics. (even years)
- POLS-4050 Great Power Diplomacy in the Modern World—Sp** 3 hours  
See course description for HIST-4050 Great Power Diplomacy in the Modern World.



**POLS-4620 Religion and American Politics—Fa 3 hours**

This course examines the intersection of religion and American politics by studying the historical, constitutional, and cultural contexts of the interaction. Special attention is paid to America's founding and to the politics of evangelical and fundamentalist Protestantism in the twentieth century. (odd years)

**POLS-4630 American Constitutional Law—Sp 3 hours**

In-depth analysis of selected Supreme Court decisions and their relevance to political, social, economic, and religious dimensions of American life.

**POLS-4700 Prelaw Seminar—Fa,Sp 3 hours**

Individual projects acquaint the student with legal procedures and research in areas such as briefs and contracts.

**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-4850 Research in International Studies—Sp 3 hours**

Students will prepare and present a formal research project on a country, region, or significant international issue. Crosslisted as INTL or POLS. (Fee:\$100)

**POLS-4900 Research in Political Science—Fa,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. *Prerequisite: all political science major requirements or permission of instructor.* (Fee: \$100)

**Public Administration**

**PUAD-3100 Public Budgeting—Fa 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.

**PUAD-3390 Public Finance—Sp 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. *Prerequisite: ECON-2340 Macroeconomics.*

**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. *Prerequisites: HIST-1110, 1120 U.S. History; POLS-2610 American National Government.*

**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—Fa 3 hours**

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: \$100)

**Sociology**

**SOC-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.

**SOC-2250 Popular Culture and Politics—Sp 3 hours**

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC.

**SOC-2300 Principles of Sociology—Fa,Sp 3 hours**

Introduction to the concepts of sociology. The structure and processes of social life are studied.

**SOC-2310 Juvenile Delinquency—Sp 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 3 hours**

See course description for SWK-2330 Introduction to Social Work.

**SOC-2400 Marriage and the Family—Fa,Sp 3 hours**

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 Concepts of Chemical Dependency—Sp 3 hours**

See course description for SWK-2840 Concepts of Chemical Dependency.



# Social Sciences and History

## School of Social Sciences and Professional Studies

### **SOC-2900 Ethics in the Helping Professions—Fa,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. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making and self awareness. Crosslisted as SOC or SWK.

### **SOC-3330 Social Stratification—Fa 3 hours**

Study of the class structure and its implications for American society. *Prerequisite:* SOC-2300 Principles of Sociology.

### **SOC-3340 Sociology of Religion—Sp 3 hours**

The relationship of religion to society with particular reference to contemporary movements.

### **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.

### **SOC-3710 Family and Society—Sp 3 hours**

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-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: \$100)

### **Social Work**

### **SWK-1100 Total Immersion Experience—Fa,Sp 2 hours**

Available to all students. Preprofessional experience for students interested in social work. Participation with a social service agency, shadowing a social worker (minimum-LSW and two years experience) for five full and consecutive days to better understand: (1) social work as a vocation; (2) the vulnerable populations social workers serve; (3) the professional helping relationship; and (4) the agency setting. Students must complete this class before applying for admission to the program. (Fee: \$60)

### **SWK-2330 Introduction to Social Work—Fa,Sp 3 hours**

Available to all students. This course gives an introduction to the social work profession and a variety of fields of social work practice. It includes a study of the historical development and professionalization of social work. There will be an overview of the integration of faith and practice and the program's poverty focus. 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 interdisciplinary teams in agency settings. Course provides detailed exposure to fields of social work practice, the role of social work, and agency structure. There is a special emphasis on understanding the dynamics of the professional helping relationship given the client's membership in certain groups. Does not count toward social science elective for general education. (Fee: \$30)

### **SWK-2840 Concepts of Chemical Dependency—Sp 3 hours**

Available to all students. Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse, and methods of assessment, intervention, and treatment. Crosslisted as CRJU, SOC, or SWK. *Prerequisite:* PSYCH-1600 General Psychology; SOC-2300 Principles of Sociology; or permission of the instructor.

### **SWK-2900 Ethics in the Helping Professions—Fa,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. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making and self awareness. Crosslisted as SOC or SWK.

### **SWK-3010 4 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 Multicultural Groups—Fa**

This course teaches an understanding of the cultural values of diverse groups and their impact on the group process and the importance of being a culturally sensitive group leader. Emphasis is given to using a problem-solving and group decision-making process in practicing group work with multicultural, small groups, communities, and organizations. *Prerequisite:* admission to the Program or permission of the instructor.



### **SWK-3110 Social Welfare Programs and Policy—Fa 4 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. Innovative programs and models that the churches could consider will be discussed and developed. Prerequisite: admission to the social work program.

### **SWK-3210 Social Work Practice with Individuals and Families—Sp 4 hours**

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 interviewing. Professional writing skills are further developed. Prerequisites: SWK-3010 Human Behavior and the Social Environment; admission to the social work program.

### **SWK-3430 Junior Seminar I—Fa 1 hour and SWK-3440 Junior Field Experience I—Fa (Fee: \$90) 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 his/her 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: SWK-3430 and SWK-3440 must be taken together.

### **SWK-3450 Junior Seminar II—Sp 1 hour and SWK-3460 Junior Field Experience II—Sp (Fee: \$90) 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 his/her senior field seminar. Prerequisite: admission to the social work program. Corequisite: SWK-3450 and SWK-3460 must be taken together.

### **SWK-3610 Data Analysis—Fa 3 hours**

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-3620 Social Work Research Methods—Sp 3 hours**

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-4210 Social Work Practice with Special Populations—Fa 3 hours**

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; appalachians; 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.

### **SWK-4220 Social Work Practice with Communities and Organizations—Sp 4 hours**

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; SWK-4210 Social Work Practice with Special Populations. (Fee: \$20)

### **SWK-4510 Senior Seminar I—Fa 2 hours and SWK-4560 Senior Field Experience I—Fa 7 hours**

These courses are coordinated with SWK-4210 Social Work Practice with Special Populations. 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: SWK-4510 and SWK-4560 must be taken together. (Fee: \$90)

### **SWK-4520 Senior Seminar II—Sp 2 hours and SWK-4570 Senior Field Experience II—Sp 7 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: SWK-4520 and SWK-4570 must be taken together. (Fee: \$90)

# Financial Information

## Student Costs

### 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

*Regular tuition per semester credit .....	\$575
Audit tuition per semester credit .....	288

##### Fees

Application fee .....	\$30
Board per semester	
Group A Meal Plans .....	1,163
Group B Meal Plans .....	1,050
Car registration fee per semester .....	35
Drop/add (course) fee .....	5
Late payment fee .....	35
Late registration .....	50
Lost room key .....	50
New student fee	
Commuting student – Fall Semester .....	90
Commuting student – Spring Semester .....	70
Resident student – Fall Semester .....	120
Resident student – Spring Semester .....	80
Payment plan enrollment fee .....	100
Reservation deposit .....	250
Room deposit (refundable upon withdrawal) .....	100
Room per semester .....	1,342
Test-out fee per semester credit .....	288

\*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.

#### Summary of Costs

##### Institutional Costs

Estimated basic costs for the academic year of 2006-07 (excluding transportation, personal expenses, books, and laboratory fees):

Tuition (based on an average of 32 semester hours) .....	\$18,400
Board (14 meals per week) .....	2,100
Room .....	2,684
<b>Total Estimated Costs .....</b>	<b>\$23,184</b>

##### Miscellaneous Costs

Other yearly expenses may be estimated as follows:

Books and supplies .....	\$800
Personal expenses (including clothing, recreation, and personal items) Note: laundry included with room .....	1,300
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 classes 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 2006	Spring 2007
First Payment Due:	August 1, 2006	January 1, 2007
Second Payment Due:	September 1, 2006	February 1, 2007
Third Payment Due:	October 1, 2006	March 1, 2007
Fourth Payment Due:	November 1, 2006	April 1, 2007

**A student is not considered financially registered until at least the first one-fourth payment has been received by the cashier's 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 cafeteria and library privileges and the withholding of grades and on-line registration.

#### Making Payment

Students and parents now will be able to pay their University bill using a variety of payment methods, thanks to our relationship with Tuition Management Systems (TMS). Payments can be made by check\*, credit card, or debit card (convenience fees apply) over the phone or via the Internet. For your protection, please do not mail cash.

Please send payments made payable to:

Tuition Management Systems:  
P.O. Box 70900  
Philadelphia, PA 19176-5900

\*Please remember to include your student ID# and student name on all checks.

Payment by phone option, please call: 1-800-463-6994

Payment by Internet, please visit: [www.afford.com](http://www.afford.com)

For more information on payment options, visit the cashier's office Web site at [www.cedarville.edu/cashiers](http://www.cedarville.edu/cashiers).

#### Notification of the University Bill

Students who pre-register will receive an invoice based on their pre-registration schedule 20 to 30 days before the semester begins. You are responsible for making your payments by the due dates. A statement of the student account is generated each month that the account has activity. Invoices and student statements are sent to the student at his/her campus post office box unless directed otherwise in writing. Students wishing to have their invoices and statements sent to their home address may obtain a form from the Cashier's Office. You may view your student account history at any time by using CedarInfo and selecting "View your student account."

#### Invoices and Statements Online

Students may view their student account, most recent invoice, and most recent transactions online using CedarInfo. Students may also assign their parents a password, giving them access to their student account and invoices. Parents can view this information by logging onto the campus homepage 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 cafeteria and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$35. Students with unpaid balances at the end of the semester could be denied enrollment in the next semester, grade reports, transcripts, or diploma. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.

### Interest Rates

An annual interest rate of 15% (1.25% 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.

### Prepayment Incentive Credit Plan (PIC-Plan)

This plan enables a student to earn interest on their student account that has a credit balance of \$500 or more on the first day of the calendar month. The PIC-Plan account and the student account are one and the same. PIC-Plan interest is taxable and anyone earning \$10 or more in interest will receive a 1099-INT form. Please call 937-766-7665 for the maximum deposit amount and the current interest rate.

### Withdrawals From a Student Account

A student may withdraw cash from their student account during the semester, provided they have a credit balance. Cash withdrawals may not exceed \$50 per week. No more than two cash withdrawals may be made per week. Withdrawals of amounts greater than \$50 are issued by check; requests can be made by contacting the cashier's office or using CedarInfo by selecting "**Request a check from your student account**" under **Financial Transactions**. Checks are issued within two to three business days of the request.

### Student Health Insurance

Due to increasing complexities in dealing with Health Maintenance Organizations (HMOs) and the many and varied Preferred Provider Plans (PPPs), medical insurance is provided for all students taking six or more credits at no additional cost. Students taking less than six credit hours may purchase the Student Health Insurance Plan. Married students may also purchase the Student Health Insurance Plan for their spouse and dependants. For more details, please contact the student health insurance coordinator at 937-766-7864, visit online at [www.cedarville.edu/dept/ums](http://www.cedarville.edu/dept/ums), or e-mail [stuhealth@cedarville.edu](mailto:stuhealth@cedarville.edu) (fax: 937-766-3646).

### 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 account and used to cover first semester expenses. A student must submit 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. Requests for refunds received after the reservation deposit deadline are partially refundable (\$150 of the \$250 deposit) until the refund date. No refunds are available after the partial refund date.

Reservation deposit submission deadlines and refund dates are as follows:

Term	Deadline Full Refund	Partial Refund Date
Fall Semester	May 1	July 1
Spring Semester	Nov. 1	Dec. 1
Summer Session I	April 15	May 1
Summer Session II	May 15	June 1
Summer Session III	June 15	July 1

### Continuing Student Reservation Deposit Refund

Full (100%) 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 his/her intention not to return Fall Semester, \$150 of his/her deposit will be refunded. No refunds will be made after July 1.

### Withdrawal Refunds

#### *Tuition and Science Laboratory Fees*

Students withdrawing from the University before the end of a semester may request a refund from the cashier's 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 and science laboratory fee refunds for withdrawal are granted on this schedule:

Refund	Fall 2006	Spring 2007
100%	thru Sept. 1	thru Jan. 19
75%	thru Sept. 8	thru Jan. 26
50%	thru Sept. 15	thru Feb. 2
25%	thru Sept. 22	thru Feb. 9
No Refund	after Sept. 22	after Feb. 9

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

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 six 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.

# Financial Information

## Student Costs

### Federal Refund Policy

Programs that are included:

1. Federal Pell Grant
2. Academic Competitiveness Grant
3. National SMART Grant
4. Federal SEOG Grant
5. Federal Perkins Loan
6. Federal Stafford Loans
7. Federal Parents PLUS Loan

A portion of Title IV grant or loan funds, but not FWS funds, must be returned to the Title IV programs upon a Title IV recipient's withdrawal from the school.

### Withdrawal date

The day the student withdraws is the date (determined by the school):

- The student began the withdrawal process prescribed by the school;
- The student otherwise provided the school with official notification of the intent to withdraw; or
- For the student who does not begin the school's withdrawal process or notify the school of the intent to withdraw, the mid-point of the period of enrollment for which Title IV assistance was disbursed (unless the institution can document a later date).

If the school determines the student did not begin the withdrawal process or notify the school of the intent to withdraw due to illness, accident, grievous personal loss, or other such circumstances beyond the student's control, then the school may determine the appropriate withdrawal date.

### Percentage of the payment period or period of enrollment completed

The percentage of the period of enrollment for which assistance was awarded that was completed is determined by dividing the total number of calendar days comprising the period of enrollment for which assistance is awarded into the number of calendar days completed in that period as of the day the student withdrew.

### Calculation of Title IV assistance earned

To calculate the amount of Title IV assistance earned by a student, the school must first determine the percentage of Title IV assistance the student earned. Up through the 60 percent point of time, the percentage of assistance earned is equal to the percentage of the period of enrollment for which it was awarded that was completed as of the day the student withdrew. If the student withdrawal occurs after the 60 percent point, then the amount is 100 percent.

### Calculation of Title IV assistance not earned

The amount of the Title IV grant and loan assistance not earned by the student is calculated by determining the complement of the percentage of assistance the student earned and applying it to the total amount of grant and loan assistance that was disbursed (or that could have been disbursed) to the student, or on the student's behalf, for the period of enrollment as of the day the student withdrew.

### Difference between amounts earned and amounts received

The school will follow the regulations for late disbursement if the student received less grant or loan assistance than the amount earned. If the student has received more grant or loan assistance than the amount earned, then the unearned funds shall be returned by the school or the student or both.

### Responsibility of the school

The school shall return the lesser of the unearned amount of Title IV assistance or an amount equal to the total institutional charges the student incurs for the period of enrollment of which the assistance was awarded, multiplied by the unearned percentage of awarded Title IV grant and loan assistance.

### Responsibility of the student

Students shall return unearned Title IV assistance minus the amount the school returns.

### Order of return of Title IV funds

Excess funds returned by the school or student are credited to outstanding Title IV loan balances for the student or made on the student's behalf for which a return of funds is required. Excess funds must be credited to outstanding balances in the following order:

1. Unsubsidized Stafford loans
2. Subsidized Stafford loans
3. Federal Perkins loans
4. FFEL PLUS loans
5. Federal Pell grant
6. Academic Competitiveness Grant
7. National SMART Grant
8. Federal SEOG grant

### Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 35, 1606 and 1607, U.S. Code for Education of Veterans and their Dependents. Students under Chapters 30, 32, 35, 1606, and 1607 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.

Inquiries concerning eligibility should be directed to the contact office of a Veterans Administration Regional Office. 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 the disabled 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.

### Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under chapters 30, 31, 32, 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 10/1
	2nd payment by 11/1
	3rd payment by 12/1
	Final payment by 1/1
Spring Semester:	1st payment by 2/1
	2nd payment by 3/1
	3rd payment by 4/1
	Final payment by 5/1

A late payment charge of \$35 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 the Free Application for Federal Student Aid (FAFSA) and submit the form to the Central Processing Center. The FAFSA should be submitted to the central processor by February 10, but not before January 1 preceding the academic year for which aid is being requested. It is not necessary to have filed your federal taxes before completing your FAFSA. Estimated data can 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. New aid applicants may obtain the FAFSA from their high school guidance counselor or from the Cedarville University Financial Aid Office. For filing online, obtain a PIN number for **both** the parent and student at [www.pin.ed.gov](http://www.pin.ed.gov) and complete the FAFSA at [www.fafsa.ed.gov](http://www.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.

The financial aid office 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 [www.cedarville.edu/finaid](http://www.cedarville.edu/finaid).

Students should advise the financial aid office when they receive additional assistance from sources other than Cedarville University. This assistance will be considered when preparing award packages and at times 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 the financial aid office at 937-766-7866 or 1-800-444-2433. Visit Cedarville's financial aid Web site at [www.cedarville.edu/finaid](http://www.cedarville.edu/finaid) and the FAFSA Web site at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

### Institutional Grants and Scholarships

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.

#### Academic Scholarships

- Cedarville Scholars – Nine students selected from each freshman class. Half tuition award (\$9,200 in 2006-07), renewable with 3.5 GPA.
- National Scholar Award – Students selected as National Merit or National Achievement Finalist or Semi-Finalist. \$4,000 award, renewable with 3.5 GPA.

- President's Scholarship – Students who score 30 or higher on the ACT. \$2,500 award, renewable with 3.5 GPA.
- Faculty Scholarship – Students who score between 25-29 on the ACT. Award amounts range from \$1,000-2200, renewable with 3.25 GPA.
- Cedarville Academic Scholarship – Awarded to upperclassmen (sophomore, junior, or senior) with demonstrated need and a 3.5 Cedarville GPA. Awards are \$1,800-2,000.
- African-American Scholarships – These merit and need-based scholarships range from \$2,000-5,000.
- Hispanic Scholarships – These merit and need-based scholarships range from \$2,000-5,000.

#### Effective Leader Grants

Effective Leader grants are competitive scholarships that are awarded for outstanding leadership experience. Awards are \$1,000-2,000.

#### Other Grants

- Christian Medical and Dental Society Scholarship – One time grant of \$1,500
- Home school/Leader Scholarship – One time award of \$750-2,000
- Jack Wyrzten Scholarship – Awarded to graduates of Word of Life Bible Institute
- Inter-Cultural Scholarship – A need-based grant for multi-cultured students
- Student Government Grants – Grants for the elected officers of the student body government
- Future Generations Scholarship – One-time scholarship for new students whose parents or grandparents graduated from Cedarville University
- Ministry Grant – A renewable, need-based grant ranging from \$500-2,000 will be offered to students who have a parent employed in full-time vocational ministry (pastors, missionaries, Christian educators, etc.). Need will be determined after other institutional, state, and federal grants are applied. A cumulative Cedarville GPA of 2.5 or above is required for renewal.
- Legacy Grant – A renewable, need-based grant ranging from \$500 to \$2,000 will be offered to students who have a parent or sibling who is an alumnus or who have a sibling currently enrolled at Cedarville University. Need will be determined after other institutional, state, and federal grants are applied. A cumulative Cedarville GPA of 2.5 or above is required for renewal.
- Forensics Grant - Awarded by the forensics coach.
- Debate Grant - Awarded by the debate team coach.
- Theatre Grant - Awarded by the director of theatre.
- Church Matching Grant – Cedarville University will match up to \$1,000 for students enrolled full time at Cedarville University who receive a scholarship from their local church. The Church Matching Grant application must be received along with the church's scholarship check.

#### Department Grants

- Athletic – Contact the athletic department or coach
- Communication Arts – Contact the director of theatre, forensics, or debate
- Music – Grants awarded to music majors

### State Grant Programs

#### Ohio Choice Grant

Students who are residents of Ohio and attending Cedarville University on a full-time basis may be eligible for an Ohio Choice Grant. Recipients must be undergraduate students enrolled in a bachelor's degree program. Students who have a prior bachelor's degree or have attended college full-time prior to July 1, 1984, do not qualify. Demonstration of financial need is not required. Students must complete a residency form provided by the University.

#### Ohio College Opportunity Grant

Students who are residents of Ohio and have an expected family contribution of less than \$2,190 as calculated on the FAFSA are eligible for the Ohio College Opportunity Grant. Application may only be made through the completion of the FAFSA. The filing deadline is October 1.

#### Ohio Instructional Grant

Students who are residents of Ohio and have a family income of less than \$35,000 may be eligible for an Ohio Instructional Grant. Application may only be made through the completion of the FAFSA. The filing deadline is October 1.

#### The Ohio Academic Scholarship Program

A \$2,005 scholarship is awarded to the top graduating senior in each accredited Ohio high school. The student is chosen according to GPA and scores on the ACT. The recipient must attend an eligible Ohio college or university. The scholarship is renewable each year, providing the student remains full time and is making satisfactory academic progress. For more information, contact your high school counselor.

#### The Ohio Air 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.

#### The 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 Board of Regents, 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 the financial aid office.

#### 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
- Rhode Island – 1-800-736-1100
- Vermont – 1-800-642-3177
- Maryland – 1-800-974-1024
- Delaware – 1-800-292-7935
- Michigan – 1-888-95-MERIT

### 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 department 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 an expected family contribution of \$3,850 or less as calculated on the FAFSA are eligible for a Pell Grant. Grants currently range from \$400-4,050 per year.

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 hours	=	3/4 award
6-8 hours	=	1/2 award
1-5 hours	=	Partial award – Federal Pell Grant only

#### Academic Competitiveness Grant

The Academic Competitiveness Grant provides up to \$750 for the first year of undergraduate study and up to \$1,300 for the second year of undergraduate study to full-time students who are U.S. citizens, eligible for a Federal Pell Grant, and who have successfully completed a rigorous high school program, as determined by the state or local education agency and recognized by the Secretary of Education. Second year students must also have maintained a cumulative grade point average (GPA) of at least 3.0. The program will be available for the first time for the 2006-07 school year for first year students who graduated from high school after January 1, 2006, and for second year students who graduated from high school after January 1, 2005. The Academic Competitiveness Grant award is in addition to the student's Pell Grant award.

#### National Smart Grant

The National SMART Grant provides up to \$4,000 for each of the third and fourth years of undergraduate study to full-time students who are U.S. citizens, eligible for a Federal Pell Grant, and pursuing the specified majors in physical, life, or computer sciences; mathematics; technology; or engineering; or a foreign language determined critical to national security. The student must also have maintained a cumulative grade point average (GPA) of at least 3.0 in coursework required for the major. The National SMART Grant award is in addition to the student's Pell Grant award.

#### Federal Supplemental Educational Opportunity Grant (SEOG)

This grant is offered at Cedarville University to students with exceptional need who are eligible to receive Pell Grants. Due to limited funding, Cedarville University offers SEOG with a maximum award of \$1,000.



### 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 Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

#### 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 Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

#### 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 Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

### Special Institutional Grant and Scholarship Funds

Alumni and other people who have a special interest in the growth and progress of Cedarville University have generously donated funds to help defray educational expenses of students who have special and exceptional financial needs. These funds, which are listed below, are for the most part under the control of the Director of Financial Aid, who determines who is eligible and the award that will be provided according to specific guidelines for each fund. The minimum cumulative GPA necessary to obtain assistance from these funds is 2.0 unless otherwise stipulated by the donor.

Most of our institutional grant and scholarship agreements require students to be full-time (12 hours) in order to receive an award from the endowment funds. If attendance status is not addressed in the endowment document, the following adjustments will be made:

<b>12 hours or more</b>	<b>=</b>	<b>Full award</b>
<b>6-11 hours</b>	<b>=</b>	<b>Prorated</b>
<b>less than 6 hours</b>	<b>=</b>	<b>No award</b>

*African-American Nursing Student Scholarship* Given to students majoring in nursing. Students must have a GPA of 2.0 or above. Preference is given to African-American students.

*The Alumni Softball Fund* Awarded to qualified students who participate in the softball program.

*Armstrong Family Memorial Scholarship Fund* Given to students majoring in biblical education who are interested in full-time Christian service as a career. Provided by the families of Mead and Bryan Armstrong.

*Anonymous Bible* Given to juniors or seniors majoring in comprehensive Bible, international studies, or preseminary.

*The Robert Atkinson Memorial Scholarship* Given to juniors majoring in political science, history, or music with a GPA of 3.25 or above who are involved in ministry and community service. Preference is given to members of Licking County Grace Brethren Church, Blacklick, Ohio; or East Side Grace Brethren Church, Blacklick, Ohio; or to children of active missionaries.

*The Autio Family Scholarship* Provided by General Clyde and Mrs. Jean Autio for juniors who are majoring in engineering, nursing, or education. Students must have a GPA of 3.0 or above and demonstrate financial need.

*Bartlett Family Early Childhood Education Scholarship* Given to students majoring in early childhood education who are planning to teach kindergarten. Recipients must demonstrate potential to excel as classroom teachers, must have completed at least one year of study at Cedarville University, and must maintain a cumulative GPA of 2.5 or above.

*Bartlett Family Nursing Scholarship* Given to a student majoring in nursing. Recipient must have completed at least one year of study at Cedarville University. The recipient must also demonstrate financial need and maintain a cumulative GPA of 3.0 or above.

*Bartlett Family Professional Writing Scholarship* Given to a student majoring in technical and professional communication. Recipient must have completed at least one year of study at Cedarville University. The recipient must also demonstrate financial need and maintain a cumulative GPA of 2.5 or above.

*Rudy Bedford Endowed Memorial Scholarship Fund* Given to a business major. Established by Trustees of the University.

*William J. and Nora J. Bolthouse Endowed Scholarship Fund* Given first to students of William Bolthouse Farms, Inc. employees. Other students may be eligible when the above priority has been satisfied.

*DeLois C. Brown Family Love Scholarship* Given to students pursuing an undergraduate degree in any academic program. Student must demonstrate financial need according to criteria established by Cedarville University.

*Joseph & DeLois Brown Scholarship* Awarded to advancing junior or senior students majoring in Management, Marketing, or Management Information Systems. If recipients continue to fulfill the scholarship criteria, the scholarship will be renewed in their senior year. Recipients must demonstrate exceptional ability and potential to excel in their respective fields of study. This scholarship is provided by Mr. William F. Poe.

*Ruby E. Booher Bontrager Memorial Endowed Grant Fund* Given to students who have demonstrated financial need.

*Robert Orr Burns Scholarship Fund* Given to mechanical engineering majors who have completed two years at Cedarville and have a GPA of 3.2 or above. May receive for up to two years. Endowed by Richard and Beverly Burns.

*James Cain Special Education Award* Awarded to students majoring in special education. Must have completed at least one year at Cedarville. Awarded to a student who has demonstrated a heart for teaching children with special needs. Preference will be given to students who are involved with extracurricular activities that minister to children with special needs and their families. This award is funded by Dr. Cheryl Irish, Cedarville University Education professor, and her husband, James Irish.

*The Ross and Gladys Campbell Scholarship Fund* Awarded to students entering the ministry who demonstrate financial need.

*CDR Network Assistantship Fund* Given to full-time students pursuing a degree in any academic program; however, preference will be given to students engaged in broadcast communications. Recipients must be contributing to the work of CDR Radio through special projects assigned by radio personnel. Preference given to students who demonstrate financial need.

*Cedarville University Memorial Endowment* Given to full-time students who demonstrate financial need.

*Christian Education Scholarship* Given to students pursuing an undergraduate degree in education. Recipients must desire to teach in Christian elementary or secondary institutions, have a cumulative GPA of 3.3, and demonstrate exceptional ability in the field of teaching. Preference given to students who demonstrate financial need according to criteria established by Cedarville University.

*The Christian Ministry Scholarship Fund* Granted to full-time Bible majors with priority given to students whose parents are not in full-time Christian ministry and who have cystic fibrosis or a learning disability.

*David H. and Edith W. Clark Scholarship Fund* Awarded to students with financial need who have completed one year at Cedarville and have a GPA of 2.5 or above. Students may receive this scholarship for up to three years.

*Computer Science Missions Scholarship* Given to students majoring in computer science who have completed one year at Cedarville. The recipient must have served on a University or Christian organization-sponsored missions trip or internship during the previous summer break.

*The Criminal Justice Scholarship* Awarded to a senior criminal justice major who is involved in Christian service and demonstrates exemplary Christian character and financial need.

*Minor and Bernice Cross Endowed Scholarship Fund* Given to students who demonstrate financial need. Preference is given to members in good standing of Faith Baptist Church, 2220 Western Ave., Matton, Illinois, or missionaries supported by that church.

*Richard C. Davis Family Scholarship* Given to sophomore, junior, or senior students pursuing an undergraduate degree in any academic program who have attended Cedarville University for at least one academic year.

*Willis F. Early Business Scholarship* For training Christian students in business. Given to students majoring in business. Established by Richard Early as an endowment in memory of his father, Willis F. Early.

*Betty J. Early General Scholarship* Awarded to a student pursuing a bachelor's degree in any academic program except business. This scholarship is provided by Dr. & Mrs. Richard Early.

*The Nathan and Hazel Elder Scholarship* Given to an English or education major who has completed at least one year at Cedarville University and has a minimum GPA of 3.0.

# Financial Information

## Financial Aid

- Dr. Charles Ellington Church Music & Worship Scholarship** Given to a student majoring in church music ministry. Recipient must have completed at least one year of study at Cedarville University and maintain a cumulative GPA of 2.8 or above. Preference given to those students who demonstrate financial need.
- Dr. Warren G. Elliott Scholarship** Given to a student with financial need who has completed at least one year at Cedarville and has a GPA of 2.5 or above. Students may receive this scholarship for up to three years. Provided by Dr. Warren G. Elliott.
- Dorothy Ellis Family Scholarship** Given to sophomore, junior, or senior students pursuing an undergraduate degree in any academic program under the Department of Engineering or Science and Math.
- Fellowship Baptist Church Scholarship** Awarded to students majoring in any academic program. Must be members or faithful attendees of Fellowship Baptist Church, Lakeland, FL, and receive a pastoral recommendation for this scholarship. This scholarship is provided by members of the Fellowship Baptist Church, Lakeland, FL.
- John and Ann Field Scholarship** Given to first-year students demonstrating exceptional financial need. Established by John, Ann, and Patrick Field.
- The First Baptist Church of Findlay, Ohio, Scholarship Fund** Given to students from this church. Others will be considered if no qualified students from the church enroll.
- Future Generations Scholarship** Awarded to freshman students who are children or grandchildren of a Cedarville University graduate. Students must demonstrate exceptional leadership skills and a heart for Christian service. Financial need may be a consideration and applications are available through the Admissions Office.
- Lewis P. Gallagher Scholarship Fund** Given to students from the state of Maine who have been residents of the state of Maine for five or more years. Preference given to members of Berean Baptist Church, Brunswick, Maine. Provided by the Lewis P. Gallagher Family Foundation. Students must complete an application for this scholarship.
- S. Margaret Gallagher Scholarship** Awarded to qualified nursing majors. Provided by the Lewis P. Gallagher Family Foundation.
- GAR Foundation Scholarship Fund** Awarded to full-time students who demonstrate financial need.
- GAR Foundation Summit County Scholarship** Given to students who reside in Summit County, Ohio.
- The Godby Memorial Scholarship** Given to full-time students in good standing who are residents of Kentucky. Provided by Mr. Eric Brock in memory of his grandparents, Mr. and Mrs. Herbert Godby.
- William and Rachel Grapentine Scholarship Fund** Granted to nursing majors with financial need who have completed at least one year at Cedarville and have a GPA of 3.0 or above. Students pursuing a career in missions will also be considered. Preference is given to Michigan residents.
- The Gray-Paxson Scholarship** Awarded to exceptional junior or senior students preparing to teach in public schools. Renewal is based on continued outstanding performance.
- The Gugger Scholarship Fund** Awarded to students selected by the University Administrative Council.
- Frank O. Harris Memorial Scholarship** Given to children of full-time missionaries who have significant financial need and a GPA of 2.5 or above. The scholarship was established by Gilbert and Billye Gallagher in loving memory of Billye's father, Frank O. Harris.
- Helping-Hand Endowed Fund** Given to deserving and needy students. Established by Miss Mabel Irvin Walker.
- William and Cora Norman Henry Endowed Memorial Scholarship Fund** Given to full-time students majoring in elementary education who demonstrate financial need. Preference is given to students from Clark County, Ohio. Provided by Geraldine Henry.
- The Heritage Baptist Church Scholarship** Given to members of Heritage Baptist Church, Lakeland, Florida, who are recommended by its pastor or pastoral staff. Applicants/recipients must submit a paper by July 1 each year detailing their spiritual goals for the coming year. Must have a GPA of 2.5 or above.
- Holmes Family Scholarship** Preference given to graduates of Dayton Christian High School, Dayton, Ohio, demonstrating financial need. Endowment provided by Richard and Carole Holmes.
- Bea Holmes Nursing Scholarship** Granted to a qualified nursing major in honor of Bea Holmes. Endowment provided by Richard and Carole Holmes.
- Edward B. Holmes Engineering Scholarship** Granted to a qualified engineering major in honor of Edward B. Holmes. Endowment provided by Richard and Carole Holmes.
- Harold P. "Howdy" House Endowed Memorial Scholarship Fund** Given to full-time students who intend to be pastors or missionaries, have previous preaching experience, can provide a recommendation from a pastor, and have demonstrated financial need. Preference is given to members of Calvary Baptist Church, then to residents of Guernsey City, Ohio, and then to residents of Coshocton, Ohio.
- Dr. Robert and Myrtle Hutchinson Scholarship** Given to students preparing for full-time foreign missionary service.
- The Deborah Bush Haffey Intercollegiate Debate Scholarship** Granted to qualified students participating in intercollegiate debate. Provided by David and Deborah Haffey.
- International Student Organization Scholarship** Given to international students who are not U.S. citizens and who hold an F-1 student visa. Financial need is a consideration.
- Jersey Baptist Church Scholarship** Given to members of Jersey Baptist Church, Pataskala, Ohio, who demonstrate a passion for Christian ministry and who have accumulated student loan debt. Second consideration will be given to other members of Jersey Baptist Church. Final consideration will be given to students who are not members of Jersey Baptist Church but demonstrate a passion for Christian ministry and have accumulated student loan debt. Students may be pursuing an undergraduate degree in any academic program.
- Jewels for Students Scholarship** Benefits junior or senior students who demonstrate an inability to pay for a significant portion of their educational expenses, in spite of exhausting all traditional forms of financial aid, including scholarships, grants, and federal student loans. Provided by Miss Brittany Smith.
- The Diane Renée Jones Memorial Scholarship** Awarded to qualified students who major in biological science or science education and maintain a GPA of 2.0 or above. Students must have completed at least one year at Cedarville University and can receive the scholarship for up to three years.
- William M. Junk and Frances William Smith Junk Endowed Grant** Given to a freshman with demonstrated academic prowess and financial need.
- Dr. and Mrs. R. G. Kennedy Endowed Scholarship Fund** Given to one or more students preparing for areas of Christian service.
- Kettering Medical Center Sponsorship & Grant** Awarded to a student entering the junior or senior year of nursing with the intent of pursuing a full-time career in nursing after graduation. Recipients must demonstrate a spirit of service to others, the desire and the ability to excel in the nursing profession, and possess a high regard for the call of nursing. Recipients should exemplify the five dimensions of nursing - spiritual, physical, social, emotional, and intellectual. Preference will be given to students demonstrating financial need according to the criteria established by KMC and the University's Director of Financial Aid. Students accepting the sponsorship portion of the scholarship will agree to employment terms with KMC upon graduation.
- Kittyhawk AOC Chapter Scholarship** Awarded to a junior or senior majoring in the engineering and/or computer/information science field. Recipients must possess appropriate academic and professional credentials and demonstrate financial need. The recipients must not have any aversion to defense-related activities or accepting a scholarship from a defense-related activity. This scholarship is provided by the Kittyhawk Chapter of the Association of Old Crows, which is an international professional organization comprised of academic, government, and industry personnel dedicated to the preservation and advancement of Defensive Electronic Countermeasures.
- Ruth COUNTER Klopfenstein, R.N. and A. Rees Klopfenstein, M.D. Nursing Education Endowment** Given to students pursuing an undergraduate degree in nursing. Recipients must meet one of two sets of criteria: junior with an overall GPA of 2.75 and 3.0 in basic sciences and senior with an overall GPA of 2.75 and 3.0 in professional nursing courses. Both recipients must demonstrate maturing Christian character in their personal and professional life and a commitment to and love for the nursing profession.
- Loretta Lawrence Scholarship** Given to full-time junior or senior students in good standing who are pursuing a bachelor's degree in social work. Recipients must have a GPA of 2.5, be mission-minded, and be involved in extracurricular activities. Provided by Cindy Sutter-Tkel in honor of her grandmother.
- MK Scholarship/Grant** Established by interested alumni missionary friends to assist children of missionary parents who meet the guidelines and who, without this help, would have difficulty meeting their educational expenses.
- The Nelson L. and Vera B. Lee Scholarship** Awarded to students preparing for the pastoral ministry or the mission field, teaching in a Christian school or other full-time vocational Christian work, and maintaining a GPA of 2.0 or higher. Students must have attended Cedarville University for at least one year.
- William M. and Ruth Ann Lewis Endowed Assistance Fund** Given to students in good standing with demonstrated financial need. Preference given to students from southeastern Ohio.
- Philip S. Lindner Scholarship** Established by David ('84) and Laura ('85) Lindner in memorial to their fathers, this scholarship is given to students from single-parent homes resulting from the death of the student's father. Recipients must demonstrate financial need.
- George H. and Edna F. Louys Endowed Grant Fund** Given to students training to be pastors or missionaries. Provided by the family of Edna F. Louys.
- Sam Lyndon Memorial Scholarship** Given to students pursuing an undergraduate degree in any academic program under the Department of Business. At least one of the recipient's parents must be deceased. This scholarship is provided by Walsworth Publishing in memory of Sam Lyndon, the father of CU graduate Angela Lyndon.
- Irene MacArthur Memorial Scholarship** Benefits students with at least a 3.5 GPA who are members of Calvary Memorial Church in Racine, Wisconsin. Students must demonstrate financial need. Provided by Mr. and Mrs. John Weeks.

- The William and Jean Meahl Scholarship Fund** Granted to a Cedarville High School graduate who pursues an elementary or secondary education degree and maintains a GPA of 3.0 or above. The student is eligible beginning the freshman year and must demonstrate financial need.
- Mephibosheth Scholarship Endowment** Given to students who have a physical impairment that is likely to continue indefinitely. Preference given to those who have an impairment that makes employment during the academic year less likely. Given to students pursuing an undergraduate degree in any academic program. The endowment is provided by the late Peter DeKorete, a successful businessman who himself had a physical disability.
- Dwight L. Morris and Marguerite J. Morris Scholarship** Given to students who are pursuing an academic program in accounting and who demonstrate financial need. Endowment established through the Marguerite J. Morris Trust.
- The Nashville Baptist Church Scholarship Fund** Given to students who demonstrate financial need. First priority is given to residents of Brown County, Indiana. Second priority is given to residents of Baptist Children's Home in Valparaiso, Indiana.
- Navajo Bible Church Scholarship** Given to a member of the Navajo Bible Church, Fort Defiance, Arizona, who demonstrates financial need. Established to encourage spiritual leadership and development of Navajo young people.
- The Richard and Mary Olsen Scholarship** Given to a student with financial need who has completed two years at Cedarville and has a GPA of 3.0 or above.
- Rita G. Patterson Nursing Scholarship** Awarded to a full-time junior or senior student majoring in nursing. Must have a cumulative grade average of 3.0. This scholarship is provided by Donald and Rita Patterson.
- The Alvin and June Perry Scholarship** Given to a student with financial need who has completed at least one year at Cedarville University and has a GPA of 2.5 or above.
- Personnel & Process Solutions, Inc. Scholarship** Given to students majoring in business management. Must have completed at least one year of study at Cedarville University and maintain a cumulative GPA of 2.8 or above. Preference is given to students demonstrating financial need.
- Ralph and Floyd Pflieger Memorial Scholarship** The recipient must be a member of the Cedarville University baseball team and demonstrate financial need. Established by Mary Jo Martin in memory of her father, Ralph Pflieger, and her grandfather, Floyd Pflieger.
- The Pleasant View Baptist Church of Wren, Ohio Endowed Scholarship Fund** Given to students from this church. Others may be considered should no students from the church qualify.
- Dan Poole Broadcasting Award** Given to students pursuing an undergraduate degree in broadcasting who are actively involved with the University student radio station.
- Don and Peg Rickard MK Scholarship** Established by the Cedarville University Student Government Association, this scholarship is given to students whose parents are missionaries serving in a foreign country. Recipients must be freshmen and demonstrate financial need.
- Rife Endowed Scholarship Fund** Awarded to students based on demonstrated financial need and donor stipulations. Established by Mrs. Ralph Rife and children.
- The Jean Scott Endowed Memorial Scholarship Fund** Given to continuing students with a 2.5 GPA or above intending to be missionaries. Secondary consideration is given to students entering full-time Christian services.
- Mike & Amy Shane Scholarship** Given to members in good standing of Calvary Baptist Church, Bakersfield, California; employees or children of employees of the grantors or their immediate family; or citizens of the People's Republic of China.
- James A. Smith Elderly Compassion Memorial Scholarship** Given to students pursuing an undergraduate degree in any academic program. Student must demonstrate a passion for serving the elderly community through Christian service of career aspirations.
- Jane Adams Smith Memorial Scholarship** Given to students pursuing an undergraduate degree under the department of Psychology. Recipients must have completed at least one year at Cedarville University.
- Lucy Smittle Memorial Scholarship** Given to sophomore, junior or senior students pursuing an undergraduate degree in finance.
- Soccer Alumni Fund** Given to students who demonstrate talent and ability in soccer. Established by Cedarville University alumni in support of the soccer program and team members. Contact the Athletic Department for more information.
- James and Lorna Spencer Endowed Scholarship** Given to a full-time student with demonstrated financial need.
- The David W. Stahl Endowed Memorial Scholarship Fund** Given to a sophomore music major with a GPA of 3.0 or above.
- Al and Joanna Stevens Scholarship** Given to students pursuing an undergraduate degree in any academic program. Recipients must be children of full time employees of Opex Corporation, Moorestown, NJ.
- Dr. Daniel C. Stevens Memorial Scholarship** Awarded to advancing sophomores or juniors majoring in Christian Education. Must be routinely faithful in exhibiting the biblical triad of faith, hope, and love. This award is given by Mrs. Suzanne Stevens in loving memory of her husband and CU faculty member, Dr. Daniel Stevens.
- Esther Stone Endowed Trust Fund** Given to preministerial or ministerial students with moral character, academic potential, and demonstrated financial need.
- Stuck Memorial Endowed Grant Fund** Given to eligible students. Established in memory of Jim Stuck.
- Student Body Loan and Grant Fund** Given to qualified students with financial need. Provided by the student body.
- Dave Taylor Memorial Scholarship** Given to junior or senior students pursuing an undergraduate degree in any academic program. Recipients must also have steadfast plans to enter the foreign mission field. This scholarship is endowed by friends and classmates of Dave Taylor, class of 1964.
- Tempelhof Organ Scholarship** Assists students who are studying the organ. Students must be knowledgeable of the piano keyboard. Possible student use of the scholarship may include music books, lessons, or funding to attend organ workshops. Provided by Mrs. Janet Tempelhof.
- Theta Rho Epsilon Scholarship** Awarded to a student pursuing a bachelor's degree in any academic program. Students who have a cumulative grade point average closest to 2.75 during the spring term of their junior year and who do not qualify for other forms of merit-based scholarships will be considered for the scholarship.
- The Cal Thomas Scholarship Fund** Given to students who have the intention of and the competencies to influence the media for Christ.
- Edward J. and Melvina W. Thompson Memorial Scholarship** Given to full-time sophomores, juniors, and seniors of any major who demonstrate financial need and maintain a GPA of 3.0 or above.
- The Tindall Scholarship Fund** Awarded to students with extreme and urgent financial need. Preference is given to children of full-time missionaries who agree with Cedarville University's doctrinal statement.
- Marvin and Janet Troyer Athletic Scholarship** Given to members of the women's volleyball and/or women's basketball team who demonstrate financial need. Preference given to students pursuing a career in nursing, medicine, or Christian ministry. Established by Drs. Tim and Wendy Troyer in honor of their parents, Marvin and Janet Troyer.
- Dr. Donald Tyler Scholarship** Established by Bethesda Baptist Church, this scholarship is given to students who are enrolled in a Bible program and preparing for ministry in the pastorate. Recipients must have a minimum cumulative GPA of 3.0.
- James & Ruby Wells Scholarship** Benefits students who attend the Haxtun Berean Bible Church in Haxtun, Colorado. Recipients shall be full-time and maintain satisfactory academic progress. If there are no recipients meeting these criteria, all other CU students will be considered who have financial need and excel academically. Provided by Mrs. Ruby Wells.
- Wickerham Memorial Endowed Grant Fund** Given to students who demonstrate financial need. Established by the generosity of Ruth Ann (Burns) Wickerham.
- Stephen J. Wildasin Memorial Scholarship** Given to students who are pursuing an academic program in biology and who demonstrate financial need. Established by the family of Stephen J. Wildasin in memory of his life and Christian testimony.
- Rev. and Mrs. Earl V. Willetts Endowed Grant Fund** Given to students in good standing. Provided by the Willetts family.
- World Missions Scholarship** Awarded to students planning to enter full-time missions under the authority of a recognized Christian organization that provides appropriate accountability and support. Primary consideration will be given to students who are planning to enter the foreign mission field immediately following graduation. Secondary consideration may be given to students planning to complete seminary before entering the mission field or to students planning to serve in the domestic mission field. Must possess aptitude to excel in missionary service, evidenced by their ministry experience, spiritual maturity, and academic performance.
- G. Marvin Wright Memorial Scholarship** Given to a full-time student who maintains a GPA of 3.0 or above and is engaged in a student ministry through the Christian Ministries Department.
- Gladys York Memorial Scholarship** Given to students from Calvary Baptist Church in Parkertown, NJ, who are recommended by the pastor. Students must write a paper detailing their spiritual, academic, and long-term goals by July 1 each year.
- Gladys York Memorial Scholarship for the King's Christian School** Given to graduates of King's Christian School, New Jersey, with demonstrated financial need. Applicants must submit a paper by July 1 detailing their spiritual, academic, career, and professional goals.
- Zehr Family Scholarship** Established by Eric Zehr '87 and Joseph Zehr, this scholarship is given to graduates of Blackhawk Christian School, Fort Wayne, Indiana. Recipients must demonstrate financial need.

### Academic Awards

- Dr. and Mrs. Merlin Ager Education Award** Given to a senior majoring in education; preference given to those planning to teach overseas. The student must have a GPA of 3.3 or above and have an effective, ongoing ministry to young people. Established by the Department of Education faculty and friends of Dr. and Mrs. Merlin Ager.
- Alumni Scholarship and Grant Endowment Fund Awards** Awarded to outstanding freshmen, sophomores, and juniors by each academic department. Provided by the Alumni Association.

# Financial Information

## Financial Aid

- Alumni Spanish Majors Scholarship** Given to a student majoring in Spanish or Multi-Age Spanish Education. Preference is given to students who have been accepted for study-abroad programs in Spanish for a summer term or semester or who are active in outreach ministries. The recipient must be in his/her sophomore, junior, or senior year and must have a GPA of 3.3 or above.
- The Amstutz Management-Sales Award** Granted to a deserving junior majoring in business administration. Provided by Mr. Myron E. Amstutz.
- The Amstutz Nursing Award** This endowed annual award is granted to a deserving junior majoring in nursing and has been provided by Mr. Myron E. Amstutz. This student must demonstrate academic excellence and commitment to a nursing career and be involved in activities that strengthen nursing at Cedarville University.
- Anderson Family Scholarship Fund** Granted to a female student with a foreign language concentration and a 3.0 GPA. Provided by Mr. and Mrs. Robert J. Anderson.
- The Arline Littleton Autio Award** Given to a last-semester elementary education senior who intends to pursue a career in public school education. General and Mrs. Clyde Autio endow the award in loving memory of and in gratitude for the life and educational ministry of General Autio's mother, Arline Littleton Autio.
- Nathan R. Arnold Accounting Award** Given to sophomore or junior accounting majors who have a minimum GPA of 3.5 and demonstrate exceptional Christian character. Established by Robert and Brenda Arnold in honor of their son, Nathan, a 2005 Cedarville graduate.
- The John W. Bickett Alumni Scholarships** Given to juniors and seniors preparing for pastoral or missionary service and planning to continue their education in seminary or language studies. Provided by Heritage Alumni.
- Shari Boblitt Family Memorial Award** Given to a graduating senior who is pursuing a post-graduate degree in Christian counseling. The recipient must have a cumulative GPA of 3.3 or above. Established by the family of Shari Boblitt.
- The Boyd Accounting Award** Presented annually to a deserving junior in accounting.
- The Dolph & Brown Psychology Award** Given to two juniors majoring in psychology or applied science. Provided by Dr. and Mrs. Charles Dolph and Mrs. Alcene Brown.
- The Edmund Burke Award** Presented to a junior majoring in social science with a 3.5 GPA.
- Burris Logistics Computer Science Award** Given to students pursuing a degree in computer science who have demonstrated exemplary character in the personal, spiritual, and academic pursuits. Must have a GPA of 3.3, participate in community service and ministry opportunities, and make contributions to the advancement of the computer science program. Established by Burris Information Technology.
- The David G. Canine Award** Given to a graduating senior with a cumulative GPA of 3.0 or above who is planning to enter the pastorate and has a heart for evangelism. Established in memory of and gratitude for the ministry of David G. Canine.
- Centennial Library Scholarship Award in Library Science** Given to a senior accepted for enrollment or planning to begin a graduate program within two years of graduating from Cedarville University to pursue an advanced degree in library and information science.
- Charles and Margaret Clevenger Piano Award** Established by Dr. Charles Clevenger to honor his parents, Charles E. and Margaret Clevenger, whose love and encouragement have shaped him as an artist and educator. Recipients must be full-time, rising junior or senior students with a minimum GPA of 3.3, pursuing a bachelor's degree in music with piano as principal instrument. The recipient must also demonstrate exemplary musical stewardship and Christian character.
- J.D. Cloud and Co. Accounting Award** Given to an accounting student who is a junior with a 3.5 or higher GPA and who has expressed an interest in public accounting as a career.
- Compton/Knight Family Music Scholarship** Given to students who demonstrate extraordinary potential to excel as classroom teachers for vocal and/or instrumental music. Recipients must have a minimum GPA of 3.5 and have completed at least one year of study at the University. Established by Harland P. and Pauline G. Knight.
- CRC Press Chemistry Award** Presented to the student with the highest average for the year in general chemistry.
- The Creation Research Awards** Presented annually to outstanding seniors majoring in biology, chemistry, mathematics, or physics.
- Daniel Award** Given to graduating male seniors who are planning to serve as full-time pastors and are accepted by a conservative evangelical seminary. Recipients must have a minimum cumulative GPA of 3.3. Established by David and Jean Heyd in memorial to their parents Charles and E. LaRue Wilcox and Elmer and Kathryn Heyd.
- The Irma M. Dodson Award** Granted to a graduating senior in elementary education. Endowed out of gratitude for the Lord's enablement in allowing Irma M. Dodson to serve 50 years in education.
- Helen Drullinger Memorial Award** Given to a student enrolled in a Bible program, preparing for professional Christian ministry. The recipient must maintain a cumulative GPA of 3.3 or above. Preference is given to a married student whose wife is working to help pay for his college expenses. Established in memory of Helen Drullinger.
- The Erich W. Ebert Award** This annual award is given to a last-semester secondary or elementary education senior who intends to pursue a career in Christian school education. General and Mrs. Clyde Autio have endowed this award in loving memory of and in gratitude for the life and educational ministry of Mrs. Autio's father, Erich W. Ebert.
- Sharon Eimers Award** Established in loving memory of Dr. Sharon Eimers, this award recognizes and assists exceptional education majors. The recipient must be a full-time junior or senior education major with a minimum GPA of 3.3. The student who receives this award must demonstrate exceptional creativity, enthusiasm, and dedication to teaching.
- Jenna Lynn Ellis Award** Awarded to junior or senior students pursuing a career in law and planning to attend law school. Preference will be given to students who want to serve in a branch of law relating to victim advocacy or criminal prosecution. Recipients must demonstrate exceptional academic, personal, and spiritual standards. Interested parties must complete an essay application explaining their motivation for pursuing a career in law, their definition of justice, and their ethical responsibilities within their expected field of practice. This scholarship is funded by Jenna Ellis.
- The Austin Elmore Award** Presented annually to a junior majoring in biology. Preference given to students demonstrating potential in botanical sciences. Established to honor Austin Elmore for 17 years of faithful ministry as a biology professor at Cedarville.
- The Faculty Scholarship Trophy** Given to the graduating senior with the highest cumulative grade point average. Eligibility must include 90 semester hours taken at Cedarville University completed within six regular semesters.
- The Dr. Clifford W. Fawcett Senior Business Scholarship Award** Given to graduating seniors who have demonstrated exceptional scholarship and exemplary Christian, moral, and ethical character.
- Harold R. Green Christian Ministries Award** Given to a deserving senior showing faithfulness and leadership in the area of Christian service.
- The Hugh T. Hall Memorial Award** Presented to a senior biblical education major who has completed two full years at Cedarville maintaining a GPA of 3.5 or above. Recipient should demonstrate exemplary Christian character, a love for people, and a productive ministry through the Christian ministries program.
- Dr. Joseph Halsey Award** Given to a student pursuing a degree in political science planning to enter law school after graduation. The student must have a GPA of 3.0 or above. Established by a 1998 graduate of the political science program to honor and express appreciation to Dr. Joseph Halsey.
- Morley Halsmith Memorial Scholarship** This award was established by Debra Halsmith to honor the life and ministry of her husband, Morley R. Halsmith, and to assist graduating seniors in the church music ministries program. The recipient must be a graduating senior with a minimum cumulative GPA of 3.3 who plans a full-time career in church music ministry. The student must demonstrate exceptional musical and spiritual leadership abilities.
- Marinus Hazen, Jr. Memorial Scholarship** Awarded to graduating seniors pursuing a bachelor's degree in Finance. Recipients must demonstrate exceptional integrity, a strong Christian testimony, and consistent ethical behavior. This scholarship was established in loving memory of Rene by his family and friends.
- Heyd Math and Science Award** Given to sophomore or junior students who are pursuing a degree within the Department of Science and Mathematics. Recipients must have a minimum cumulative GPA of 3.3. Established by David and Jean Heyd in memorial to their parents Charles and E. LaRue Wilcox and Elmer and Kathryn Heyd.
- Raymond P. Holland, Jr. Engineering Excellence Award** Awarded to advancing sophomore or junior students pursuing a bachelor's degree in engineering. Recipients must have a minimum 3.3 cumulative grade average and must exhibit excellence, creativity, dedication, and common sense in their studies and application of engineering principles. This award is provided annually by Steve and Linda Nelson.
- Rev. Henry and Lilian Hutchison Christian Education Award** This award was established by Thomas and Amy Hutchison to honor his parents, Henry and Lilian Hutchison, by subsidizing student expenses for ministry preparation. The recipient must be a full-time junior or senior pursuing a degree in Christian education or youth ministry. The recipient of this cash award must have a minimum cumulative GPA of 3.3, be actively involved in Christian ministries, and have a demonstrated passion for ministry and excellent potential for communicating the Word of God.
- Reverend Michael Holt Memorial Scholarship** Established by Deborah Holt '87 to honor the life and ministry of her husband and to assist students preparing for a career in the pastorate. The recipient must have a minimum GPA of 3.3 and exhibit attributes that reflect the life ministry of Rev. Michael Holt, including integrity and steadfastness, passion of biblical study, and zeal for preaching.
- The James T. Jeremiah Award** Given to a senior desiring to enter a full-time pastoral ministry and planning to attend seminary. Established by Cedarville University to honor Dr. James T. Jeremiah for his many years of faithful service.

- The Ruby Jeremiah Scholarship** This award was established by the faculty women of Cedarville University to honor Mrs. Ruby Jeremiah for more than 25 years of service to the University and to continue her interest and support of married women completing their education at Cedarville University. The recipient must be a full-time junior or senior married woman with a minimum GPA of 3.0. She must be active in Christian service, student life, and have financial need. The steering committee of the scholarship fund makes the selection.
- The Dave Jones Memorial Soccer Award** Given to junior or senior varsity men's or women's soccer team members who are active in the soccer ministry/outreach program. Established by friends and family of Dave Jones in memory of his contribution to the Cedarville University soccer and ministry programs.
- Joseph Award** Given to male juniors who are pursuing an appropriate Department of Biblical Education major for seminary training and are planning to serve in the pastorate. Recipients must have a minimum cumulative GPA of 3.3. Established by David and Jean Heyd in memorial to their parents Charles and E. LaRue Wilcox and Elmer and Kathryn Heyd.
- The Kimberly Kerr Memorial Scholarship** Granted to a qualified junior or senior nursing student who demonstrates financial need and scholastic achievement. Established in memory of Kimberly Kerr, class of 1975.
- The Rusty King Memorial Scholarship** This endowed scholarship will be awarded annually to two students, one female and one male, who have completed at least two years on the cross-country team. Recipients shall have achieved a GPA of 3.3 or above and demonstrated exemplary Christian character.
- The John E. Kohl Music Trophy** Granted to a deserving junior majoring in music. Provided by the estate of John E. Kohl.
- The Lillian Kresge Award** Given to a junior or senior nursing student based on demonstrated financial need and scholastic achievement. Established in memory of Lillian Kresge, a resident of Cedarville who devoted her life to a career as a Christian nurse.
- Madison Caroline Law Memorial Scholarship** Given to a full-time junior or senior female student pursuing a bachelor's degree in music education with vocal emphasis. Financial need is not required but may be considered. Recipient will be a Christian woman who shows gifting and true promise as a vocalist and educator. The scholarship is given in memory of Madison Caroline Law, infant daughter of Mike and Jill Law, who are Cedarville graduates. Provided by Randy and Meredith Johnson.
- The George L. Lawlor Greek Award** Given to a student with the highest average in elementary and intermediate Greek over four semesters.
- Mary Jane LeBlanc Missions Award** Given to an advancing junior or senior female student in good standing preparing for full-time crosscultural missionary service. Preference will be given to students who demonstrate financial need, but it is not required. This award is provided by Mr. & Mrs. John K. LeBlanc in honor of John's mother, Mrs. Mary Jane LeBlanc.
- The Dorothy Hilma Leininger Nursing Scholarship** Established by Dr. Wayne E. Leininger in honor of his wife, Dorothy Hilma Leininger, in gratitude for her life and ministry. The award is granted to a full-time nursing student, sophomore or above, preparing to enter the nursing profession as a career missionary. The recipient demonstrates well-rounded interests and involvements, an exemplary Christian testimony, active Christian service, Christian principles, compassion and care for others, and financial need.
- The Love Pedagogy Scholarship in Music** Awarded to a music major, who has an emphasis in pedagogy, demonstrates excellence in pedagogy, has a GPA of 3.5 or above, and has financial need. Must demonstrate exemplary Christian character and involvement in Christian service. Recipient must have completed two years at Cedarville and can receive this scholarship for up to two years.
- The Miriam Maddox Speech Communication Scholarship** Presented annually to a communication arts major who is a freshman, sophomore, or junior and exhibits high commitment to Christian education and excellence in speech communication.
- The Clara Monzelle Milner Award** Granted to a deserving junior majoring in teacher education. Provided by Dr. George S. Milner.
- The Edith Hart Milner Award** Presented to a deserving junior majoring in English. Provided by Dr. George S. Milner.
- Jim & Phyllis Murphy Business Award** Awarded to advancing sophomores and juniors pursuing a degree in any academic major in business, with the exception of accounting. Recipients must have a minimum cumulative grade average of 3.5. Jim ('68) and Phyllis ('71) Murphy are the donors of this scholarship.
- The Nehemiah Engineering Award** Granted to an engineering student who demonstrates the balance of devotion to God and diligence of professional purpose that was exemplified in the life of Nehemiah. Provided by Dr. and Mrs. Eugene Apple.
- Oxford University Press Bible Award** Awarded to the graduating senior Bible major with the highest GPA.
- The Patterson College Chemistry Award** Given to an outstanding junior chemistry major. Sponsored by the Dayton section of the American Chemical Society.
- James R. Phipps Communication Award** Given to a junior or senior pursuing an academic major in communication arts and actively involved in community service and Christian ministries. Established by the communication arts faculty in honor of Dr. James R. Phipps.
- Rolan David Polsdorfer Electrical Engineering Award** Awarded to advancing sophomore and junior students pursuing a bachelor's degree in electrical engineering. Recipients must have one year of study remaining in their academic program. This scholarship is provided by Mrs. Catherine Polsdorfer, in loving memory of Rolan David Polsdorfer, to recognize the academic achievements of outstanding students who are pursuing careers in the field of electrical engineering.
- Mr. & Mrs. Rolan David Polsdorfer Music Award** Given to a full-time advancing junior or senior pursuing a bachelor's degree in music with piano as principal instrument. Recipient must have one year of study remaining. Provided by Mrs. Catherine Polsdorfer.
- The President's Trophy** Awarded to a graduating senior on the basis of scholastic ability, character, leadership, and sportsmanship.
- The Donna Purple Award in Education** This award was established by the friends and family of Donna Purple to honor her memory and to assist students preparing for a career in education. The recipient must be a full-time rising junior or senior student pursuing a degree in education, preferably middle childhood education, with a minimum GPA of 3.3.
- The Marlin Rayburn Award** Presented to a student who demonstrates excellence in homiletics and has a GPA of 3.0 or above. Established in memory of Marlin Rayburn by Mrs. Ethel Rayburn Jeremiah and Mrs. Marilyn Twigg.
- The Rietveld Fine Arts Award** Given to a junior or senior demonstrating consistent and outstanding ability and development in the area of studio art. Established by Mr. and Mrs. Floyd Rietveld.
- Roloff Incentive Award** This scholarship, endowed by Dr. Marston Val Roloff, is awarded to full-time students who have completed at least one year at Cedarville University. The recipients must demonstrate financial need and be actively involved in community service or other highly desirable leadership roles with a cumulative GPA of 3.0 or above. The award is given to students pursuing an academic program in biological sciences, and preference is given to children and other descendants of Cedarville University graduates.
- Salt and Light Scholarship** Given to students with a minimum GPA of 3.3 who are pursuing a degree under the department of business administration or the department of communication arts. Students must complete and essay application explaining how they plan to integrate biblical thought and practice into their academic discipline.
- Jane Adams Smith Memorial Scholarship** Given to students pursuing an undergraduate degree in any academic major under the department of Communication Arts who have also completed at least one year at Cedarville University.
- The Spiritual Leadership Music Award** This award was established by John and Jean LeBlanc in memorial to his father, John D. LeBlanc, to assist music majors. The recipient must be a full-time junior or senior student pursuing an academic major in music. The recipient must also have a minimum GPA of 3.3 and must demonstrate increasing spiritual maturity as a musician.
- The Taylor Scholarship Award** Established in honor of Ruel B. and M. Ethel Taylor by their children and grandchildren, this endowed scholarship award is granted to a full-time junior nursing student in the top ten percent of the nursing class. The recipient demonstrates financial need, is committed to honoring and serving the Lord and Savior Jesus Christ, and is an excellent prospect for a career in nursing.
- Olen Tilma Small Business Scholarship** Given to students pursuing an undergraduate degree in any academic major under the department of business administration with a minimum cumulative GPA of 3.3.
- The Undergraduate Award for Achievement in Organic Chemistry** Given by the Polymer Education Committee of the Division of Polymer Chemistry and Polymeric Materials to the most outstanding chemistry major in organic chemistry with a GPA of 3.4 or higher.
- The Kristi Lynn Walborn Memorial Scholarship** Given to a sophomore or junior music major with an emphasis in voice or in music education with vocal emphasis. Established in memory of Kristi Lynn Walborn.
- C. Eugene Walker, Ph.D. Psychology Award** Given to a junior or senior pursuing a degree in psychology. The student must have a GPA of 3.3 or above, have plans for graduate education in psychology, be involved in a Christian ministry, and participate in research in Department of Psychology activities. Established by C. Eugene Walker, Ph.D.
- The Wall Street Journal Award** Presented to an outstanding graduate in business administration.
- The J. D. "Jack" Willetts Scholarship Award** Given to a sophomore or junior who excels in preparation for a career in education. Given in memory of the former president of the Cedarville Alumni Association and member of the Class of 1958.
- The Dr. and Mrs. Duane R. Wood Family Award** Granted to a full-time student who will be at least a sophomore with a 3.25 or higher GPA who has evidenced Christian character, leadership on campus, academic achievement, and varsity athletic performance.
- The Zondervan Greek Award** Given to the student having the highest grade average in elementary Greek.

### Institutional Loan Funds

Detailed information concerning the application and repayment process is available from the financial aid office. There are several types of short and long-term loans available for situations where funding is delayed. A co-signer is required unless payment is guaranteed through another source of financial aid in the given academic year. The annual limit for an institutional loan is \$2,400.

### Federal Family Education Loan Programs

#### Federal Stafford Student Loan

Federal Stafford Student Loan funds are available to dependent and independent undergraduate students. Requests for loan assistance from this program may be made through the FAFSA. Cedarville University processes applications electronically through the Great Lakes Higher Education Corporation and its participating lenders. Applications will be mailed directly to the student from the guarantee agency. The federal government will subsidize (pay) the interest on loans while the student is in school and during a six month grace period following withdrawal or graduation if the student has demonstrated financial need as determined by the FAFSA calculations. The interest rate, as of July 1, 2006, is a fixed rate at 6.8%. Freshmen can borrow a maximum of \$2,625, sophomores \$3,500, and juniors and seniors \$5,500. Loan origination and insurance fees totaling 3% of the loan amount will be deducted by the lender.

#### Federal Unsubsidized Stafford Student Loan

Federal Unsubsidized Stafford Student Loan funds are available to students who do not qualify for all or part of the need-based subsidized Stafford Loan. The annual loan limits are the same, as stated above, for the subsidized, unsubsidized, or any combination of the two programs. In this program, all the terms are the same as the subsidized Stafford; however, the federal government does not cover the interest expenses while the student is in school or during the six-month grace period. The student does have the option to defer interest payments during in-school and grace periods; however, the interest continues to accrue. Independent students are eligible to borrow additional funds through the Unsubsidized Stafford. Freshmen and sophomores may borrow an additional \$4,000 and juniors and seniors may borrow an additional \$5,000 per year.

#### Federal Parent Loan to Undergraduate Students (PLUS)

Federal Parent Loan to Undergraduate Students (PLUS) funds are available for creditworthy parents to borrow on behalf of their 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 any amount up to the cost of education less any financial aid the student is receiving. The fixed interest rate is 8.5%. The lender will deduct 3% of the loan amount to cover the origination and insurance fee. Repayment does begin within 60 days following full disbursement of the loan funds. Further information and applications for this program may be obtained by contacting the financial aid office.

Students should be aware that funds awarded from these programs are considered to be awarded for the entire loan period requested by the borrower. Should the student withdraw before the end of the loan period, a proportionate refund of the loan funds may be returned to the lender. 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 the financial aid office.

### Federal Perkins Loans

Federal Perkins Loans are available through the University to students who are citizens of the United States and who demonstrate exceptional financial need. Funds are awarded to Federal Pell Grant recipients first. Other applicants are awarded pending availability of funds.

The Federal Perkins Loan Fund was established to help students pursue their courses of study at their chosen institutions of higher education. Students are eligible if they are: (1) a citizen of the United States, in the United States for other than a temporary purpose and intend to become a permanent resident thereof, a permanent resident of the Trust Territory of the Pacific Islands, or the Northern Mariana Islands; (2) in need of the amount of the loan to pursue a course of study at an eligible institution; (3) capable, in the opinion of the institution, of maintaining good standing in such course of study; and (4) accepted for enrollment as at least a half-time undergraduate student. Continuing students must be in good standing and enrolled as at least a half-time undergraduate.

The standard Perkins Loan amount is \$1,500. However, the annual amount may be increased as funding allows.

Repayment begins nine months after graduation or when a student leaves school for other reasons. One may have up to 10 years to pay back the loan, depending upon the aggregate amount borrowed. During the repayment period, the borrower will be assessed 5% interest on the unpaid balance of the loan principle.

Exit interviews will be conducted for graduates and withdrawals to explain loan deferment and cancellation provisions for borrowers who continue their education or go into certain fields of teaching or specified military duty.



## 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 done 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 the Financial Aid Office. Community service positions are also available in this program. Visit [www.cedarville.edu/dept/fa/studentemployment.htm](http://www.cedarville.edu/dept/fa/studentemployment.htm) 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, cafeteria, 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 the career services office 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.

## 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.

The University recognizes that conditions that create the need for financial assistance may also create other educational needs that require extra time and slower progress in achieving educational goals. Students who, because of exceptional educational needs, must make slower progress than outlined in the policy or who find themselves victims of unusual circumstances, are encouraged to discuss their situations with their academic advisors and the Financial Aid Office. Where legally possible, because of mitigating circumstances, exceptions to this policy can be considered.

When the Congress of the United States enacted the Higher Education Amendments of 1976, eligible institutions were directed to define and enforce standards of progress for students receiving federal financial assistance.

The programs directly involved at Cedarville University are:

1. Unsubsidized Stafford loans
2. Subsidized Stafford loans
3. Federal Perkins loans
4. FFEL PLUS loans
5. Federal Pell Grant
6. Academic Competitiveness Grant
7. National SMART Grant
8. Federal SEOG Grant

### Full-Time Students

To be eligible for full benefits of Federal Title IV funds, undergraduate recipients of financial aid must enroll for a minimum of 12 credit hours of classes during each semester that aid is received. All students are required to have a cumulative grade point average of 2.0 (C) in order to graduate from Cedarville University. The following academic requirements would be appropriate in achieving this goal by "carrying to completion" the required credit hours. In order to meet academic progress standards, students must complete a minimum number of credit hours based on a percentage of work to be completed and maintain a minimum cumulative grade point average consistent with the requirements for graduation. The following illustrates the academic progress policy:

Hours attempted	1-32	33-64	65-96	97-192
Completed (percent)	65%	70%	75%	80%
Minimum cumulative GPA	1.70	1.90	2.00	2.00

Satisfactory academic progress means that first-time students must, after a reasonable probationary period not to exceed one semester, have registered the minimum cumulative grade point average each semester thereafter as indicated above. In addition, these students must complete 65% of attempted course work the first academic year, 70% the second year, 75% the third year and 80% the fourth year.

**Note:** *Academic progress is measured at the end of each academic term. (Satisfactory progress for summer coursework will be evaluated at the end of the fall semester when fall term academic progress is evaluated.) It is assumed that the majority of students will graduate in the normal time frame. However, no student may continue more than six years as a full time student*



# Financial Information

## Financial Aid

*in order to complete his/her academic program. Regardless of the credit hours a full-time student attempts and received aid for, (which cannot exceed 192) they must complete the percentage of work attempted and have the appropriate cumulative grade point average as stipulated above.*

Aid recipients who fail to complete the required percentage of work attempted as listed above during the applicable semester and/or do not meet the minimum cumulative grade point requirements each semester will be considered as not making satisfactory academic progress. These students will be subject to having their federal aid discontinued unless there are mitigating circumstances involved that may affect a student's academic progress.

Students who withdraw from all courses during any semester will be encouraged to confer with the Financial Aid Office. If permitted to continue, students who withdraw from all courses during each semester for two consecutive semesters will be considered as not making satisfactory academic progress and will be discontinued from receiving federal financial aid.

In conjunction and addition to the academic policy listed in the University catalog, the grading marks F, I, W, WF & WP will not be considered as successful completion of courses attempted. The attempt of these courses will be considered in quantitative (percent completion) analysis of SAP but not the qualitative (GPA) analysis. The incomplete (I) grades will be considered into the qualitative (GPA) analysis when completed according to the provisions in the university catalog. When an incomplete grade changes to another grade notation, that change will be picked up in the next SAP review.

Repeat course credits earned are averaged into the cumulative grade point averages; however, credit hours are counted only once towards the graduation requirement, but both attempts towards the percent of completion calculation.

Credit hours in which a "CR" has been earned count toward total graduation requirements but are not used in the computation of grade point averages. Non-credit hours for which "NC" has been earned are not used in the computation of grade point averages.

Audit (AU) classes do not constitute hours attempted or completed and are not used in the computation of grade point averages.

Repeat course credits earned are averaged into the cumulative grade point averages; however, credit hours are counted only once.

Summer school credit hours earned will be included in the academic year to which summer sessions are assigned. They will be evaluated the same as hours earned in regular semester sessions.

### Part-time Students

Students who enroll for less than full-time (12 hours per semester) will receive proportionately less financial aid than a full-time student as dictated by lower school costs and federal regulations. Similar academic progress requirements for full-time apply to part-time enrollment on a proportional basis. Financial aid (except the Federal Pell Grant) will not be awarded to students who enroll for fewer than six credit hours per semester (half-time).

### Transfer Students

Transfer students who have never attended Cedarville University will be treated as new students in regard to the probationary period (one semester). The transfer credits plus the credits received at Cedarville will be used for the percent of completion measurement; however, only the cumulative grade point average earned at Cedarville will be the evaluating factor to determine if progress is being made, based on the current satisfactory academic progress policy.

### How to Re-establish Eligibility

When a student is denied aid because of lack of academic progress, additional courses at Cedarville University must be taken at the student's own expense. This will be necessary until the minimum cumulative grade point average and the percentage of completion requirements meet the academic progress criteria. In all cases, each student, upon completion of these requirements, must schedule an appointment with the assistant director of financial aid to determine his or her future eligibility for federal assistance.

### Method for Appeal

Students who have been denied federal aid due to unsatisfactory academic progress have the right to appeal and can do so by a written request to the assistant director of financial aid. All appeals must include substantive reasons for failure to comply with this policy.

The assistant director of financial aid along with the appeal committee will review the appeal and the assistant director will respond by letter with either an approval or rejection of the student's appeal. On an individual basis, future progress requirements may be placed on a student whose appeal is approved. If the appeal is approved, the student's financial aid will be reinstated for the term.

If necessary, further appeals may be made to the vice president for enrollment management.





## Student Rights

1. You have the right to know what financial aid programs are available at your school.
2. You have the right to know the deadlines for submitting applications for each of the financial aid programs available.
3. 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.
5. 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

1. You must complete all application forms accurately and submit them on time to the right place.
  2. 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.
  3. You must return all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office 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.
  5. You must accept responsibility for all agreements that you sign.
  6. You must perform the work agreed upon in accepting a university employment award.
  7. 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

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 reelection each year. The executive committee of the board consists of the chairman, vice chairman, secretary, treasurer, chairmen of the standing committees, and the president of the University. The board meets quarterly in January, May, and October.

#### Officers

*William Brown, President*  
*Ronald Becker (2008), Chairman*  
*William Bernhard (2007), Vice Chairman*  
*Mary Howard (2007), Secretary*  
*William Bolthouse (2008), Treasurer*

#### Term of Office Ending June 2007

*William Bernhard, Pewaukee, Wisconsin*  
*Gilbert Brueckner, Menomonee Falls, Wisconsin*  
*James DeVries, Ada, Michigan*  
*Daryle Doden, Auburn, Indiana*  
*David Gower, Elgin, Illinois*  
*John Hays, Reynoldsburg, Ohio*  
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### Administration

#### Administrative Council

**William E. Brown, President.** B.A., University of South Florida, 1975; Th.M., Dallas Theological Seminary, 1981; Ph.D., Dallas Theological Seminary, 1984. At Cedarville since 2003.  
**Paul H. Dixon, Chancellor.** 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.  
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**Office of the Registrar**

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**Rebecca Dufresne**, Assistant Registrar. B.S., University of Vermont, 1999. At Cedarville since 2005.

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**Patricia L. Bates**, Associate Dean of Students. B.S., Ouachita University, 1968; M.S., Xavier University, 1971. At Cedarville since 1974.

**Kirsten Gibbs**, Dean of Students. B.A., Cedarville University, 1993; M.S.A., Central Michigan University, 2003. At Cedarville since 1993.

**John Potter**, Director of Counseling. B.A., Cedarville University, 1979; M.A., Dallas Theological Seminary, 1993; M.A., Amber University. At Cedarville from 1981-1984, since 1997.

**Jonathan M. Purple**, Dean for Student Life Programs. B.S., Tennessee Temple University, 1980; M.Ed., Liberty University, 1988. At Cedarville since 1991.

**Brad Smith**, Associate Dean of Students. B.S., Liberty University, 1984; M.A., Liberty University, 1990. At Cedarville since 2000.

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**Academic Assistance**

Kimberly Ahlgrim, Director of Academic Assistance

**Admissions**

Roscoe Smith, Director of Admissions

**Alumni Relations**

Faith Linn, Director of Alumni Relations

**Athletics**

Ronald (Pete) Reese, Athletic Director

**Career Services**

Travis L. (Lew) Gibbs, Director of Career Services

**Centennial Library**

Lynn Brock, Director of Library Services

**Cedarville University Medical Services**

Debra McDonald, Director of Cedarville University Medical Services

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Donald Humphreys, Director of Teaching and Learning

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Robert Rohm, Vice President for Christian Ministries

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**Counseling Services**

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**Curriculum**

Robert Milliman, Academic Vice President

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Marilyn Meyer, Coordinator of Disability Services

**Estates and Planned Giving**

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Fred Merritt, Director of Financial Aid

**Food Service**

Charles McKinney, Supervisor of Food Service

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David Mills, Director of the Honors Program

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Sharon Johnson, Director of Institutional Research and Effectiveness

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Janice Supplee, Director of Marketing Services

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**Program Development**

Duane Wood, Executive Director of Program Development

**Student Accounts**

Ron Wood, Manager of Student and Vendor Accounts

**Student Life, Housing**

Kirsten Gibbs, Dean of Students

Patricia Bates, Associate Dean of Students

Brad Smith, Associate Dean of Students

**Student Life Programs**

Jonathan M. Purple, Dean for Student Life Programs

Richard Walker, Dean for Community and Family Programs

Jeff Beste, Associate Dean for Student Leadership Development

Scott VanLoo, Associate Dean for Student Center Operations/Programs

**Summer School/Study Abroad**

Mark McClain, Director of Summer School/Continuing Education

**Study Abroad**

Andrew Wiseman, Director of Travel Study Programs

**Transfer Services**

Karisa Linafelter, Associate Registrar

**WCDR-FM**

Paul Gathany, General Manager

Direct correspondence to:

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Cedarville, OH 45314

[www.cedarville.edu](http://www.cedarville.edu)

e-mail: [admissions@cedarville.edu](mailto:admissions@cedarville.edu)

### 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 in the Scriptures of the Old and New Testaments as verbally inspired by God and inerrant in the original writings, embracing all matters which the biblical authors address, and believe that they are of supreme and final authority in faith and life. II Timothy 3:16,17; II Peter 1:19-21.

We believe in one God—eternal, omnipotent, omniscient, and omnipresent existing as three Persons—Father, Son, and Holy Spirit, one in nature, attributes, power, and glory. Genesis 1:1,26; Proverbs 30:4; Mark 12:29; Matthew 28:19; II Corinthians 13:14; John 1:1-4, 14,18; Acts 5:3,4.

We believe that the Lord Jesus Christ was begotten by the Holy Spirit, born of the virgin Mary, and that He is both true God and true man. Matthew 1:18-25; Luke 1:26-35; Philippians 2:6-11; Isaiah 7:14; John 1:14.

We believe in the literal six-day account of creation, that the creation of man lies in the special, immediate, and formative acts of God and not from previously existing forms of life. Genesis 1:26,27; 2:7-9,16,17; 3:1-19.

We believe that man was created perfect in the image of God, that he sinned and thereby incurred not only physical death, but also that spiritual and eternal death, which is separation from God, and that all human beings are born with a sinful nature and are sinners in thought, word, and deed. Genesis 3:1-6; Romans 1:18,32; 3:10-19; 5:12,19.

We believe that the Lord Jesus Christ died for our sins according to the Scriptures as a representative and substitutionary sacrifice and rose again for our justification; and that all who 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. Acts 13:39; 16:31; Romans 3:21-28; Ephesians 2:8-10; Titus 3:3-8.

We believe that all who receive by faith the Lord Jesus are born again by the Holy Spirit through the Word of God and thereby become the children of God forever and are eternally secure. John 1:12,13; 3:3-16; 5:24; 10:28,29; I Peter 1:23; II Peter 1:4-11.

We believe that the Holy Spirit is a divine Person, equal with God the Father and God the Son; that He was active in creation; that He convicts of sin, righteousness, and judgment; that He is the Agent in the new birth; that He baptizes all believers into the body of Christ at conversion; that He indwells, seals, endues, guides, teaches, witnesses, sanctifies, and helps the believer. Psalm 139:7-12; John 14:16,17; 16:13,14; Romans 8:9; I Corinthians 6:19.

We believe that the sign gifts of the Holy Spirit are completed and are not applicable to the work of the Holy Spirit today. I Corinthians 12:8-10, 28-30; 14:1-40.

We believe in the imminent “Blessed Hope,” the Rapture of the church before the tribulation, when the “Lord shall descend from heaven” to catch up His bride to meet Him in the air and “so shall we ever be with the Lord.” John 14:1-3; I Thessalonians 4:13-18; I Corinthians 15:15-58.

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 personal, bodily, visible return to the earth at the end of the tribulation to establish His millennial Kingdom on earth, and to reign as the only Potentate, the King of Kings, and Lord of Lords. Luke 24:36-43; John 20:24-29; Acts 1:9-11; I Corinthians 15:25; Revelation 1:5-7; 19:11-16; 20:6.

We believe in the bodily resurrection of all the dead: the saved to a life of eternal glory and bliss in Heaven with God; the unsaved to eternal judgment of conscious suffering and woe in the lake of fire. John 5:28,29; Revelation 20:6,11-15; 21:1-8; Matthew 10:28; 18:8,9; 25:41,46; Mark 9:43-49; II Thessalonians 1:6-9.

We believe in personal separation from all practices and influences of the world which hinder a spirit-filled life. We believe in biblical separation from all forms of ecclesiastical apostasy. Romans 12:1; James 4:4; I John 2:15-17; II Corinthians 6:14; 7:1; Colossians 3:1-17; Romans 6:1-14; Galatians 5:16-25.

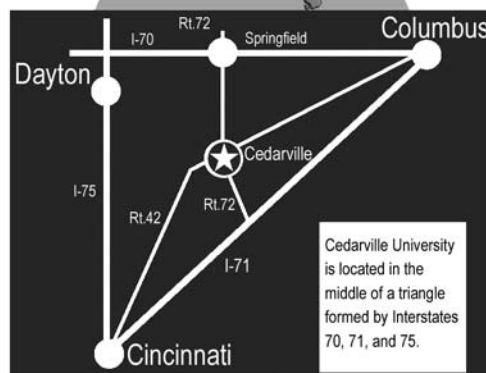
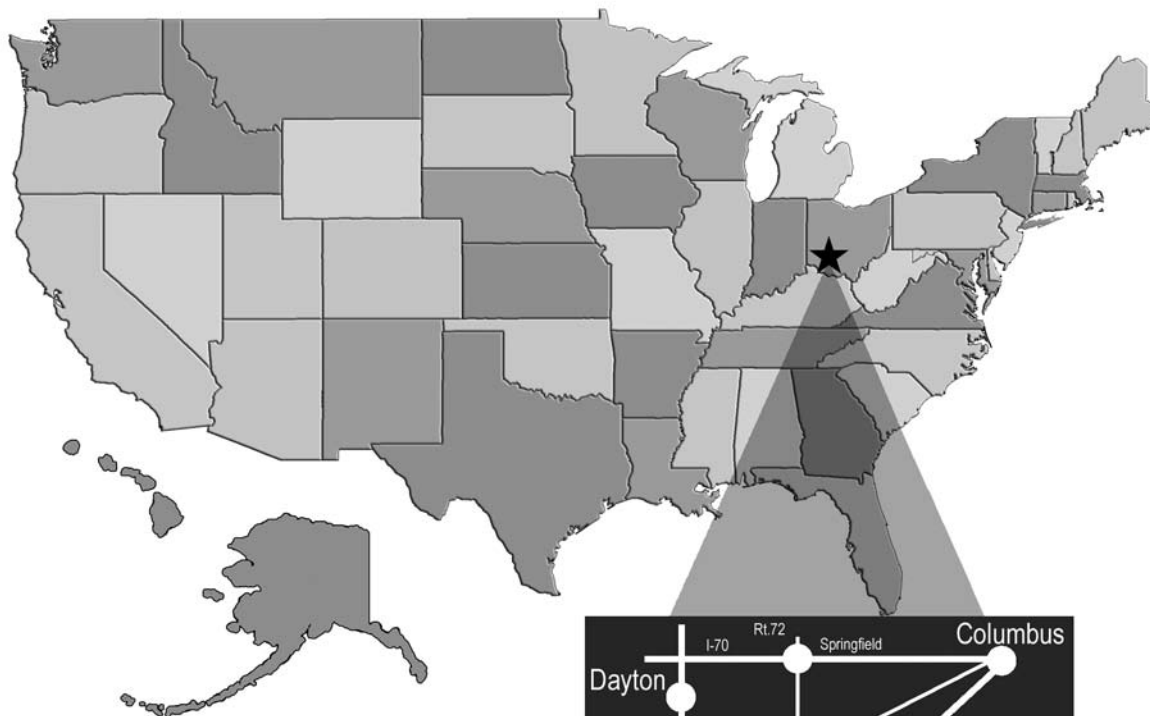
We believe that it is the privilege and responsibility of every believer to be a personal soul winner and to do his utmost to give the gospel of Christ to the whole world. Mark 16:15; Acts 1:8; John 17:18; 20:21; II Corinthians 5:20.

We believe that the local Church is an organized congregation of immersed believers, associated by covenant, observing the ordinances of Christ, having the offices of pastor and deacon, exercising the gifts, rights, privileges, and responsibilities given them by His Word, and that it has the absolute right of self-government. We believe that the Church which is His Body includes all New Testament believers. Matthew 18:15-17; I Corinthians 1:2; 7:17; 11:16; I Timothy 3:1-15; I Corinthians 12:28; Ephesians 1:22,23; 2:14,15; 5:23-32.

We believe that the Scriptural ordinances of the local church are Baptism and the Lord’s Supper; that Baptism, by immersion, should be administered to believers only, as an identifying symbol of their belief in the death, burial, and resurrection of our Lord and Savior Jesus Christ, and our death to sin and resurrection to a new walk in life, and that it is a prerequisite to local church membership; that the Lord’s Supper is a commemoration of His death and should be preceded by believer’s baptism and solemn self-examination. Matthew 28:19,20; Acts 8:36-39; 18:8; Romans 6:3-5; Colossians 2:12; I Corinthians 11:23-32.

### Statistical Information–Fall Semester 2005

By Class - Men and Women	Men	Women	Totals	Faculty/Enrollment Comparison (full-time equivalents)			
				Student	Faculty	Ratio	
Freshmen	386	505	891				
Sophomores	304	372	676	1999-00	158	17:1	
Juniors	301	383	684	2000-01	167	16:1	
Seniors	350	426	776	2001-02	169	17:1	
Special/Grad/High School	21	42	63	2002-03	193	15:1	
<b>Totals</b>	<b>1,362</b>	<b>1,728</b>	<b>3,090</b>	2003-04	200	14:1	
				2004-05	211	14:1	
				2005-06	211	14:1	
<b>Student Resident Status</b>							
Campus housing	2,466						
Commuters	624						
<b>By Major – Men and Women</b> (double majors are included)				<b>By State</b>	<b>Men</b>	<b>Women</b>	<b>Totals</b>
<i>Major</i>	<i>Men</i>	<i>Women</i>	<i>Totals</i>	Alabama	0	1	1
Accounting	42	30	72	Alaska	3	4	7
American Studies	2	3	5	Arizona	3	6	9
Applied Psychology	10	42	52	Arkansas	0	2	2
Athletic Training	14	17	31	California	13	26	39
Bible – one year certificate	5	3	8	Colorado	13	15	28
Bible, Comprehensive	19	11	30	Connecticut	11	13	24
Bible, Preseminary	48	5	53	Delaware	3	6	9
Bible, Teacher Education	2	3	5	Florida	17	21	38
Bible, Youth Ministries	60	25	85	Georgia	11	9	20
Biology – Bachelor of Arts	20	32	52	Hawaii	0	2	2
Biology – Bachelor of Science	39	57	96	Idaho	0	3	3
Chemistry – Bachelor of Arts	1	7	8	Illinois	49	66	115
Chemistry – Bachelor of Science	10	15	25	Indiana	85	99	184
Christian Education	14	28	42	Iowa	9	17	26
Communication Studies	44	99	143	Kansas	5	3	8
Computer Engineering	48	0	48	Kentucky	11	22	33
Computer Science	46	2	48	Louisiana	1	3	4
Criminal Justice	41	16	57	Maine	10	19	29
Early Childhood Education	8	204	212	Maryland	30	36	66
Electrical Engineering	60	3	63	Massachusetts	9	14	23
Electronic Media Technology	67	21	88	Michigan	148	174	322
End-User Information Systems	0	1	1	Minnesota	5	13	18
English	25	54	79	Mississippi	0	0	0
Exercise Science	19	34	53	Missouri	11	20	31
Finance	48	15	63	Montana	3	0	3
Global Economics – International Business	12	17	29	Nebraska	4	6	10
Graphic Design	33	45	78	Nevada	2	1	3
History	25	13	38	New Hampshire	15	17	32
History/Political Science	8	4	12	New Jersey	49	43	92
Individual Studies	0	2	2	New Mexico	2	3	5
Information Systems	29	3	32	New York	69	69	133
Integrated General Science Education	3	4	7	North Carolina	18	33	51
Integrated Language Arts Education	10	40	50	North Dakota	1	1	2
Integrated Life Science Education	4	3	7	Ohio	503	632	1,135
Integrated Math Education	10	17	27	Oklahoma	1	3	4
Integrated Physical Science Education	1	2	3	Oregon	6	4	10
Integrated Physics Education	2	1	3	Pennsylvania	121	163	284
Integrated Social Studies Education	14	16	30	Rhode Island	1	4	5
Management	89	36	125	South Carolina	5	4	9
Marketing	47	32	79	South Dakota	1	2	3
Mathematics – Bachelor of Arts	5	3	8	Tennessee	7	17	24
Mathematics – Bachelor of Science	5	15	20	Texas	11	19	30
Mechanical Engineering	180	6	186	Utah	1	0	1
Middle Childhood Education	20	81	101	Vermont	4	2	6
Missiology – International Studies	8	19	27	Virginia	31	41	72
Multimedia Technology	1	0	1	Washington	11	20	31
Music	12	19	31	West Virginia	17	14	31
Music, Church Ministries	17	6	23	Wisconsin	19	28	47
Music, Composition	3	2	5	Wyoming	0	0	0
Music, Keyboard Pedagogy	0	12	12	District of Columbia	1	0	1
Music, Multi-Age Education	11	30	41	Guam	1	0	1
Music, Performance	8	12	20	Puerto Rico	0	0	0
Nursing	24	300	324	Subtotals	1,351	1,715	3,066
Pastoral Studies	24	0	24	Foreign Residence	11	13	24
Philosophy	14	7	21	<b>Totals</b>	<b>1,362</b>	<b>1,728</b>	<b>3,090</b>
Physical Education and Sport Studies	8	6	14				
Physical Education, Multi-Age	6	15	21	<b>By Age – Men and Women</b>			
Physics – Bachelor of Arts	10	2	12	<b>Years</b>	<b>Men</b>	<b>Women</b>	<b>Totals</b>
Physics – Bachelor of Science	2	0	2	under 18	28	46	74
Political Science	16	11	27	18	251	394	645
Prelaw	13	12	25	19	315	422	737
Psychology	36	74	110	20	307	403	710
Public Administration	4	0	4	21	269	313	582
Sociology	2	6	8	22	116	92	208
Social Science	1	0	1	23-24	48	22	70
Social Science – International Studies	14	16	30	25-29	17	6	23
Social Work	3	66	69	30-34	4	5	9
Spanish	3	19	22	35-39	1	5	6
Spanish Education, Multi-Age	1	16	17	40-49	5	11	16
Special Education, Multi-Age	1	55	56	50+	1	9	10
Sport Management	27	3	30	<b>Totals</b>	<b>1,362</b>	<b>1,728</b>	<b>3,090</b>
Studio Art	0	5	5				
Technical & Professional Communication	2	13	15				
Theatre	6	27	33				
Undecided	96	120	216				
World Missions	7	6	13				



### Directions to Cedarville University

Cedarville is located in the middle of a triangle formed by Interstates 70, 71, and 75.

#### From the North

I-75 south to I-70 east; travel approximately 24 miles to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

#### From the South

I-75 north to Cincinnati; merge with I-71; take I-71 north to the Sabina/Jamestown exit 58 (Rt. 72); follow Rt. 72 north to Cedarville. Proceed through Cedarville three blocks to the campus.

#### From the East

I-70 west to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

### From the West

I-70 east to the Springfield/Cedarville exit (Rt. 72); travel south 11 miles on Rt. 72 to the campus.

### Traveling by Air

The nearest commercial airport is Dayton International Airport in Dayton, Ohio, which is a 45-minute drive from the campus.

Columbus International Airport, located an hour from Cedarville, is also an excellent option to consider.

### Traveling by Bus

Both Greyhound and Trailways Bus lines have terminals in Springfield.

Transportation from an airport or bus terminal may be arranged by contacting the Admissions Office at **1-800-CEDARVILLE (233-2784)**.

**Academic Course Planner**

First year			
Fall Semester Courses	Credits	Spring Semester Courses	Credits
<b>Total Hours:</b>		<b>Total Hours:</b>	
Second year			
Fall Semester Courses	Credits	Spring Semester Courses	Credits
<b>Total Hours:</b>		<b>Total Hours:</b>	
Third year			
Fall Semester Courses	Credits	Spring Semester Courses	Credits
<b>Total Hours:</b>		<b>Total Hours:</b>	
Fourth year			
Fall Semester Courses	Credits	Spring Semester Courses	Credits
<b>Total Hours:</b>		<b>Total Hours:</b>	



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# Cedarville University Campus Map

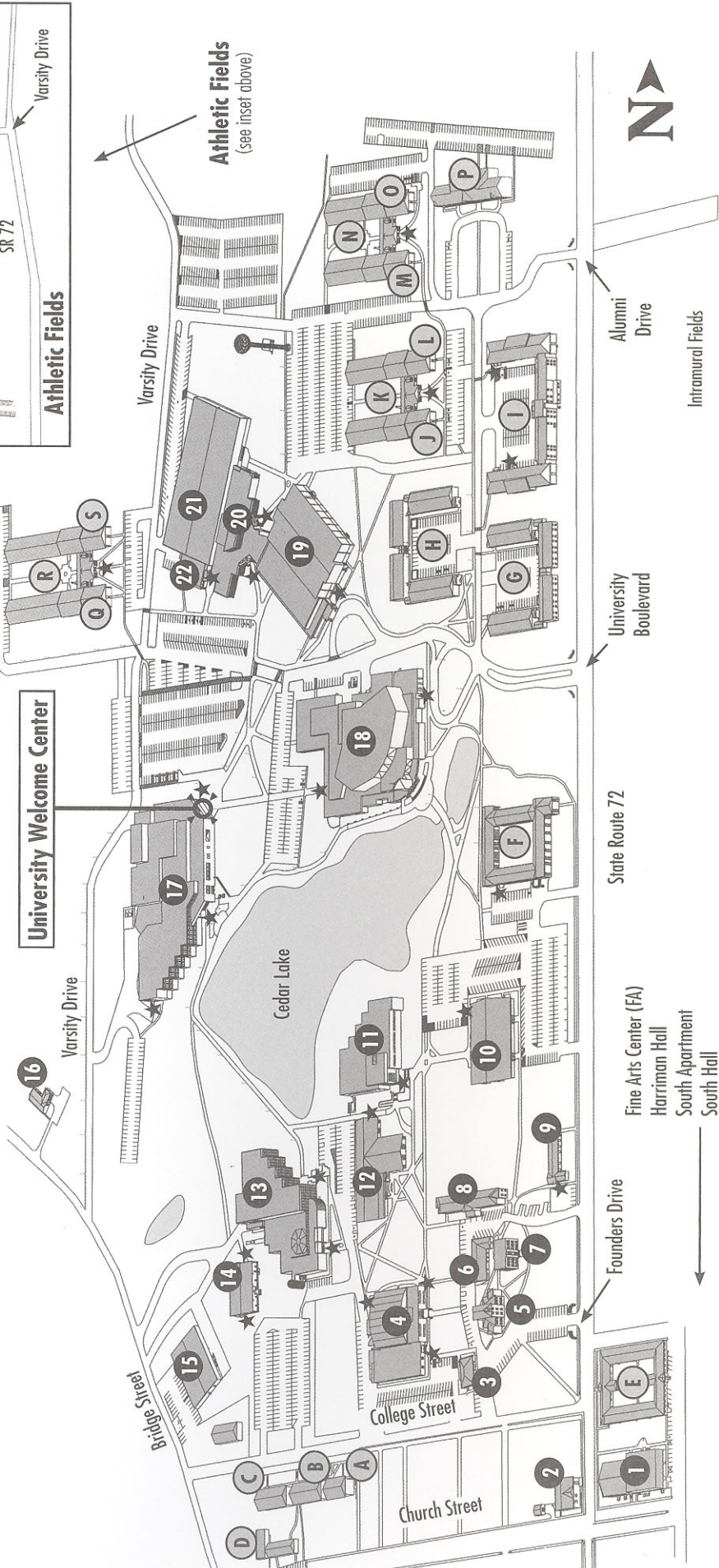
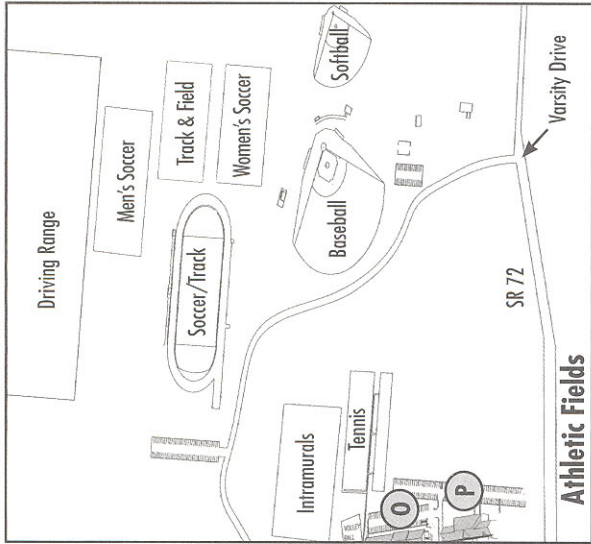
## Academic, Administrative, and Athletic

- 1 Alford Hall (AL)
- 2 Ambassador Hall (AM)
- 10 Apple Technology Resource Center (APP)
- 19 Callan Athletic Center (CAL)
- 3 CDR Radio Network Center (CDR)
- 11 Centennial Library (LB)
- 7 Collins Hall (CO)
- 18 Dixon Ministry Center (DMC)
- 21 Dodan Field House (DFH)
- 13 Engineering, Nursing, Science Center (ENS)
- 14 Engineering Projects Laboratory (EPL)
- 20 Fitness Center (FIT)
- 5 Founders Hall (FH)
- 6 Human Resource and Safety Center (HRS)
- 1 Milner Business Administration (MIL)
- 2 Patterson Hall (PAT)
- 10 Service Center (SERV)
- 19 Stevens Student Center (SSC)
- 3 Tyler Digital Communication Center (TYL)
- 11 University Medical Services (UMS)
- 7 Williams Hall (WI)
- 18 Wisecup Hall (WISE)
- 21 Women's Soccer
- 12 Track & Field
- 9 Men's Soccer
- 15 Baseball
- 17 Softball
- 4 Intramurals
- 4 Tennis
- 4 Soccer/Track
- 4 Driving Range

## Residence Life

- | Men                       | Women           |
|---------------------------|-----------------|
| 12 Brock Hall             | P Faith Hall    |
| 9 Carr Hall               | M Johnson Hall  |
| 15 Lawlor Hall            | F Maddox Hall   |
| 17 Marshall Hall          | J McKimney Hall |
| 4 McChesney Hall          | Q Murphy Hall   |
| 22 Palmer Hall            | H Priddy Hall   |
| 8 Rickard Hall            | I Willerts Hall |
| 16 Rogers Hall            |                 |
| St. Clair Hall            |                 |
| Residence Life Centers    |                 |
| Green Conference Center   |                 |
| Miter Conference Center   |                 |
| Younger Conference Center |                 |

★ = Automatic Handicap Door



- Fine Arts Center (FA)
- Harriman Hall
- South Apartment
- South Hall

# CU on Campus

## Experience Cedarville for Yourself

The best way to decide if Cedarville is the place for you is to visit! Spend a day as our guest, meet students and faculty, and experience campus life in action. Make plans now to spend a day with us!

- Join us for chapel at 10 a.m.
- Tour campus.
- Visit a class or two.
- Talk with a professor.
- Discuss financial aid opportunities.
- Meet your admissions counselor.
- Speak with a coach in your sport.
- Eat in our dining hall.
- Participate in an evening activity.
- Spend a night in one of our residence halls.

We'll customize a visit just for you and your family. Let us know when you are coming, and we'll make all the arrangements. We are open Monday through Friday 8 a.m.–5 p.m. and by appointment on Saturday.

Whenever you come, we will do our best to meet your needs, surpass your expectations, and offer you the best campus visit experience possible!



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