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# 2004-2005 Academic Catalog 

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## inspiring.

Hearts for God. Minds for Truth. Friends for Life. Service for Eternity.


## CEDARVILLE unwersity

# CEDARVILLE 

## Academic Calendar 2004-05

## FALL SEMESTER 2004

## August 2004

9-10,13 New Faculty Orientation
11-12 Faculty/Staff Sessions
12 President's Faculty/Staff Banquet
20-22 Getting Started Weekend
23-26 Fall Bible Conference
25 Instruction begins at 8:00 a.m. (Convocation)

September 2004
6 Labor Day (no classes)
22 Day of Prayer (classes begin at 1:00 p.m.)
29-30 Trustee Meetings

October 2004
1-3 Homecoming
14-17 Fall Break (no classes)
18 Instruction resumes at 8:00 a.m.
Advising and Early Registration for
Spring Semester 2005:
26-27 Seniors
28-29 Juniors

## November 2004

Advising and Early Registration for
Spring Semester 2005:
1-3 Sophomores
15-17 Freshmen
5-6 Parents Weekend
8-12 Student Evaluation of Faculty
24 Thanksgiving Vacation begins at 1:00 p.m.
30 Instruction resumes at 8:00 a.m.

## December 2004

7 President's Faculty/Staff Family Banquet
14-17 Final Exams
22 Grades due at 4:00 p.m.

## SPRING SEMESTER 2005

## January 2005

10 New Student Orientation \& Registration
11 Instruction begins at 8:00 a.m.
11-13 Missions Conference
20-21 Trustee Meetings
20 Trustee/Faculty Banquet

February 2005
23 Day of Prayer (classes begin at 1:00 p.m.-Monday Schedule)

March 2005
7-14 Spring Break
15 Instruction resumes at 8:00 a.m.
Advising and Early Registration
for Fall Semester 2005:
17-18 Seniors
21-22 Juniors
23-25 Sophomores
29-31 Freshmen
25 Easter Break begins at 1:00 p.m.
29
Instruction resumes at 8:00 a.m.

April 2005
1 Grandparents Day
4-8 Student Evaluation of Faculty
11 Academic Honors Day

May 2005
3-6 Final Exams
5-6 Trustee Meetings
7 109th Annual Commencement
12 Grades due at 1:00 p.m.

## SUMMER SESSION I

May 2005
16 Orientation and Registration
17 Instruction begins

## June 2005

3 Summer Session I ends

## SUMMER SESSION II

June 2005
13 Orientation and Registration
14 Instruction begins

July 2005
8 Summer Session II ends

## 2004-05 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.


## A Word From Our President, Dr. Bill Brown

## Thank you for your interest in Cedarville University!

This catalog is designed to answer many of the questions you may have about us. Please read it carefully. I also invite you to visit our campus to see for yourself why Cedarville is such a popular university among committed Christian young people today. We would love to have you join us and prepare for your life's career and ministry in this dynamic learning environment.
Christians have countless opportunities to serve 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.
I believe that you will be particularly impressed with the people who make up Cedarville University. Our faculty, staff, and administrators are here to teach you and to serve you in many different roles and also to encourage you to grow in Christ. They will demonstrate a sincere concern for your growth-intellectually, physically, emotionally, socially, and spiritually. You will find we really are family.
A Cedarville education combines the personal attention of godly faculty with a high-tech environment that commands national attention. For 117 years Cedarville University has offered Christian higher education consistent with biblical truth. We stand ready to help prepare you to serve our unchanging Christ in this millennium.

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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 has continued to flourish 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. The future looks bright for Cedarville University as it seeks God's continued blessing and enters its 116th year of service.

## Profile

Cedarville University is a Baptist university of arts and sciences. 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 course work.

## Purpose

The purpose of the University has remained unchanged: to offer an education consistent with 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 in faithful Christian service.
3. To increase each student's awareness of the world of ideas and events that 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 wholesome avocational and cultural activities.

## Recognition, Accreditation, and Licensure

Cedarville University is a four-year and graduate degreegranting 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 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 of Social Work Education (CSWE).
The University holds membership in the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, Illinois, 60602-2502, phone 312-2630456. This recognition signifies that the University is accredited.
The University also holds membership in the Council for Christian Colleges and Universities, the Ohio College Association, the Association of Independent Colleges and Universities of Ohio, the National Association of Independent Colleges and Universities, the Association of Christian Schools International, and the Ohio Foundation of Independent Colleges.
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 3,000 . 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, 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 to relax.
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 sports teams, concerts, and employment opportunities.

## Facilities

## Alford Hall

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 theatre. The building with its new 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 classroooms, a 40 -station general usage computer laboratory, a video conferencing center, a computerized testing room, student lounges and 17 offices. New electronic media facilities have been 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 and provides space for academic programs in the Department of Exercise and Sport Science as well as fitness and recreational activities.

## Callan Athletic Center

Constructed in 1981, the Callan Athletic Center provides yearround recreation and training. This sports center features three full-length basketball courts, five volleyball courts, eleven badminton courts, and the athletic training facility. It seats nearly 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 houses 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 other exercise equipment. Students can also enjoy a room for aerobic classes and workouts, three racquetball courts, and a vending and lounge area. 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.


The Dixon Ministry Center-the heart of the campus.

## 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 website. A listener-supported ministry, the network offers a quality mix of praise and inspirational Christian music, Bible-centered programming, and up-to-date 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 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 instructional technology assistance service, 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 over 180,000 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

Renovated in 1987, Collins Hall houses the academic departments of Communication Arts and Social Sciences and History.

## Dixon Ministry Center

The 120,000 square-foot Dixon Ministry Center, completed in 1996, includes the Jeremiah Chapel, the Christian Ministries Division, the Department of Music, and several classrooms.
The 3,400 seat chapel is the site of daily chapel services that bring the university family together daily for worship and instruction from God's Word. This auditorium features a 9 -foot Steinway grand piano and a Rodgers 960 organ.
The music department facilities include 14 instructional studios, 20 practice rooms, 4 rehearsal halls, a piano pedagogy suite, a piano laboratory, a computer laboratory, 3 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 11 classrooms, including a 200-seat auditorium, 10 independent study laboratories, 5 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 computerequipped classrooms, a reflecting telescope with a 16-inch mirror, an audio visual learning laboratory, a simulated hospital ward, and an engine test cell.

## 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, ceramics studio and kiln, and faculty offices.

## Founders Hall

"Old Main" has served as the focal point of campus activity for over 100 years. 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 ten general classrooms, a computer classroom, and offices for the Department of Business Administration.

## Patterson Hall

Formerly the home of the University's Clinic, Patterson Hall now provides 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, Academic Services, Counseling, Student Services, and Campus Activities 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 theatre complex includes a 400 -seat theater, movement studio, makeup suite, scene design lab, scene shop, offices, and dressing rooms. The theatre has a 36 ' by $18^{\prime}$ proscenium arch, 38 lines with full fly space, and a Gala electronic lift system for the orchestra pit.


The Stevens Student Center, opened in the fall of 2000, is the central focus of campus life.

## Tyler Digital Communication Center

This newly renovated facility includes a graphic design lab, writing center, multimedia lab, classrooms and offices. Offices for Alumni, Public Relations, Development, 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.

## 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 CedarNet is that students have access to over 150 commercial software packages directly from the residence hall rooms, without needing to go 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 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. All laboratories offer highquality laser printers and flatbed scanners. The library computer laboratory also features color printers, digital cameras, and other specialized equipment. Internet access is supported through the use of a DS-3 line. Cedarville is a participant in Internet 2, which means that Internet traffic goes over the fastestavailable connections. Each residence-hall room has two 100Mbps network connections, for use by the university-provided computer and for student-provided systems.

## 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, and in large gathering areas such as the Centennial Library, the Stevens Student Center, and the Dixon Ministry Center. Students are also allowed to provide their own wireless access in the residence hall rooms.


Technology is incorporated into many class assignments and projects, simulating real-world experiences.


Computers in every residence hall room provide 24-hour access to CedarNet, the award-winning campus computer network.

## Benefits

Students using the network can:

- Communicate electronically on campus with professors, friends, and classmates, or with friends and family around the world.
- Manage, display, and analyze data using spreadsheet, statistical, and database software.
- 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 Corporation, retired
Mr. George Chessum, Resurrection Health Care
Mr. David Cossey, Union College
Mr. William Dyer, National City
Mr. Aaron Fessler, mediaForce, Inc.
Mrs. Marivi Garrison, Dulles Group
Mr. Gary Habegger, The BFGoodrich Company, retired
Dr. Shawana Johnson, Global Marketing Insights
Mr. James Kregel, Kregel Publications
Mr. Fred Laxton, Executive Consultants
Mr. Douglas Macrae, Video Guide
Mr. Andrew Mininger, Imagedog
Mr. Greg Moran, Bank One
Mr. Robert Murphy, J.W. Pepper and Son, Inc.
Mr. William Pardi, Microsoft
Mr. Mark Prevost, TopNoggin
Mr. Randy Rabold, CBC Companies
Mr. Gary Rutledge, FANUC Robotics
Mr. Al Stevens, OPEX Corporation
Mr. David Whitten, General Motors
Dr. Michael Zastrocky, Gartner Group

# Introduction <br> University Services 

## 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. Assessment tools are available to help students 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) 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.
Students who register with the office are placed in a job-match database that enables Career Services to provide resumès to employers and publish them on the Internet. The office maintains credential files for all education majors and provides registered 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. Annually the board meets to advise and evaluate Cedarville's plans for further strengthening the career and ministry placement services.

Jeffrey A. Carter, The University of Dayton, MBA Programs<br>Timothy Houghton, The Horace Mann Companies<br>Jim Leightenheimer, Cedarville University<br>Salvatore LoDico, Senior VP-Cardone Industries<br>Larry Mealy, Taylor University<br>Carol Rivetti, Comstor, Inc.<br>Marcella Sampson, Central State University, Emeritus<br>Jennifer Sheehan, Rocking Horse Center<br>John Styll, President Gospel Music Association<br>Ronald Walker, Cedarville University<br>Thad Winston, The State Farm Insurance Companies<br>Myron L. Youngman, The Kaifa Group, Incorporated

## 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.
Support groups are formed as needed. 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.
In addition, the vice president for Christian ministries, faculty members, and staff members provide counsel and guidance to students. Faculty advisors are particularly prepared to assist students in program and course selection.

## Healthcare and Medical Services

The nurses and physicians at Cedarville University Medical Services work closely with area hospitals and specialists to provide comprehensive health care for students.
phone: 937-766-7862; fax: 937-766-7865
web: www.cedarville.edu/dept/ums e-mail: univmed@cedarville.edu
The services of University Medical Services also include Cedarville University Emergency Medical Services, a volunteer EMS ambulance service manned with students who are nationally certified EMT's and/or paramedics. CUEMS is available 24 hours a day when classes are in session to respond to campus emergencies (www.cedarville.edu/dept/ums/cuems).
All students taking six or more credit hours per semester are enrolled in a Student Health Insurance Plan as a benefit of tuition. 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. Refer to the Student Health Insurance Plan brochure for details of the coverage, or visit our website.
phone: 937-766-7864; fax: 937-766-3646
web: www.cedarville.edu/dept/ums
e-mail: stuhealth@cedarville.edu


CUEMS volunteers are prepared to respond to a campus emergency 24 hours a day.

## Housing

Residence hall living is an integral part of the educational process at Cedarville. All single students 23 years of age and under, except those commuting from the home of their parents or legal guardian, are required to live in university residence halls. Students 25 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 Services 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. A student handbook will be mailed to new students prior to their arrival on campus.
Married students may find housing at Cedar Park, a universityowned 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 Public Safety Office.

## Chapel

Dr. Dixon, Cedarville's chancellor, has said many times, "The heartbeat of every Christian college/university is chapel."
Five days a week the Cedarville family and guests meet in the 3,400-seat James T. Jeremiah Chapel. At 10:00 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. Joe Stowell, Alistair Begg, Knute Larsen, Jim Cymbala, and Dr. Warren Wiersbe, just to name a few, bring messages from God's Word. Alumni often speak of chapel as being one of the things they miss most after graduation. Many return to be able 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 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.
Opportunities for worship include the Cedarville University Fellowship, which meets in the university chapel, as well as numerous churches within easy driving distance of Cedarville.
Spiritual growth is further encouraged through student prayer groups that meet regularly to pray for special needs. One day each semester 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 selfcontrol, 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.

## 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-Dept. of Communication Arts, pg 64
Drama-Dept. of Communication Arts, pg 64
Engineering Competitions-Dept. of Engineering, pg 90
Forensics-Dept. of Communication Arts, pg 64
Math Club-Dept. of Science and Mathematics, pg 160
Miriam Maddox Forum-Dept. of Communication Arts, pg 64
Student Radio Station-Dept. of Communication Arts, pg 64

## 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, University Jazz Singers, Jubilaté ministry choir, Gospel Choir or one of the many small ensembles directed by the Division of Christian Ministries.

## Intercollegiate Athletics

Cedarville University maintains 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 Mideast 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 Activities

The Campus Activities Office provides a program of cultural, social, educational, and recreational activities. Programs include Christian concerts with groups like Newsboys, Jars of Clay, the Elms, and Point of Grace; cultural programs; 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 principle 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 our 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.
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 a 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

Alpha Sigma is devoted to promote 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 112.

Army ROTC-see page 113.
Chess Club provides opportunities for fellowship and interaction with students who enjoy the game of Chess.
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 have 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 stands for "Servants building Relations with Visitors". DAE is a group of junior students who work directly with the Cedarville University Alumni Association and Development 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.

Pi Kappa provides fellowship and support to PKs (Pastor's Kids) on campus as well as ministering to local PKs, encouraging pastoral studies students, and encouraging local pastors.
Renaissance Guild increases learning and awareness of the medieval and renaissance eras and provides fellowship with like-minded individuals.
Students for Religious Freedom seeks to inform and involve the student body and churches regarding religious persecution.
Women's Awareness Organization is dedicated to the education of the University family in support of many different issues related specifically to women around the world.

## 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.
Kappa Epsilon Alpha provides insights into the world of business and promotes free enterprise through S.I.F.E., a Students In Free Enterprise program.
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.

## Cross-Cultural Organizations

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 cultures through extracurricular activities.
Societe de Francais (the French Club) promotoes 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 prehospital care and transportation to Cedarville students in need.
Homes for L.I.F.E. is a student organization committed to demonstrating Christ's love in truth and deed by working with local housing organizations to eliminate poverty housing.
Pi Delta is a volunteer, honorary, coeducational student group whose purpose is to provide tours for campus visitors.

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 girls 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.

## Leadership Opportunities

The Campus Activities Office provides 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 to enhance leadership skills
- The Character Forum - Panel discussions, chapel series, and awards to develop and recognize strong character
- Mentoring Programs - Veranda Life (women) and MMM (men) connect students with proven leaders for personal reflection and accountability.


## Recreational Activities

The Recreational Activities Program provides 20 intramural sports, various outdoor pursuits (skiing, rock climbing, caving, whitewater rafting, etc.), fitness, and special events to help meet the fitness and recreational needs and interests of our university family. For a list of activities and additional information, visit the following website:
www.cedarville.edu/departments/cao/ra/ra-home.htm

## Christian Ministries

The Division of Christian Ministries coordinates all universitysponsored 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

Cedarville University is located in a region known as the Miami Valley, encompassing the cities of Columbus, Dayton, and Cincinnati 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 \& Children's Ministries, Jail/Detention Center Ministries, Hospital Ministries, Nursing Home/Elderly Visitation Ministries, Special Needs Ministries, and Local Church Ministries.

## 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 250 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 50 student-led small group Bible studies, men's and women's prayer groups, and a Scripture memory group. Discipleship ministries are excellent avenues for growing in your walk with God and finding 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 use drama to encourage and challenge youth and adults in their faith (team selection is held in the spring).
- Master's Puppets use puppetry and a variety of other teaching methods to minister to children.
- HeartSong Teams are nine-member ensembles with vocalists, keyboard players, guitarist, percussionist, and sound technician.


## Spring Break Ministries

A number of teams are available to give students the opportunity to minister over the school's spring break. Ministries include but are not limited to the following: Child Evangelism Fellowship, Children's Bible Fellowship, Inner City Impact, Joy Ranch, The Master's Mission Team, and Shepherd's Home.

## 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.

## Requirements

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 secondary school 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. Academic record, recommendations, and rank in class.
3. Scores from the ACT or SAT I tests.

ACT scores are preferred. Because test scores are used for placement purposes, transfer students may be requested to submit them.
Applicants with the best prospects for admission have academic credentials that include a college-preparatory secondary 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.
The University does not discriminate on the basis of race, color, sex, or national origin. The University admits students with various disabilities.

## Secondary School Requirements

Although the University does not prescribe actual secondary 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)
- 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 nontraditional secondary school experiences. Typically, 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 on a monthly basis to prospective students.
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.

## 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 on-line at
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 through the junior year be sent to Cedarville University, along with a recommendation from the high school counselor. Class rank at the end of the junior year should be included.
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.

## Readmission

A student whose academic work has been interrupted for one semester or more must apply for readmission two months before the beginning of the semester in which the student desires to matriculate. Readmission forms are available online or from the Admissions Office. An updated recommendation from the pastor or church leader of the church 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.

## 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 (3.0/4.0 scale) in a full-time college-level class schedule. Courses in which less than a "C-" is earned are not granted transfer credit.

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 Academic Services Office. 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 processed 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.

## 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.

## Individuals with Disabilities

Through specific counseling, adjustments are made to enable students with disabilities to achieve their educational objectives. Additional information concerning specific services is available from the Student Services Office or the Academic Assistance Center. Individuals with disabilities are advised to contact the director of academic assistance, Kim Ahlgrim, at (937) 7667765, for appropriate academic accommodations. The Campus Safety and Physical Plant departments handle ADA compliance issues.

## 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 or a computerbased score of 213 or better. All international applicants are required to submit either TOEFL or SAT I scores (Cedarville's institution TOEFL code is 1151).
To satisfy United States Immigration and Naturalization requirements, upon acceptance international students must deposit $\$ 21,674$ (includes $\$ 1,720$ for personal expenses) at the University in United States currency or submit a certified affidavit of support that demonstrates the ability to cover universityrelated 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 beautiful 400-acre campus of Cedarville University offers many quiet places to find study time.

## 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 education 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.

## 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.


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## 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 receiving these scores, 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. 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 Academic Services Office, or the University website. No fee, other than those accompanying the examinations, must be paid in order to receive college credit through CLEP.
Students who wish to use CLEP examinations to satisfy General Education Requirements in foreign language, literature, 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 (30004000 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 (30004000 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.
6. Participate in the university testing and assessment program when asked.
7. 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.
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 in the catalog 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 course work 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.

## Current Program

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. 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:

- Content - biblical truth is integrated into all course content.
- Convenience - program design works well with active professionals.
- Cost - tuition is competitively priced in comparison to other graduate programs.

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, or visit the graduate program website at 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 65 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 Ministry
- Communication Arts
- Comprehensive Bible
- Computer Engineering
- Computer Science
- Criminal Justice
- Early Childhood Education
- Electrical Engineering
- Electronic Media
- English
- Exercise Science
- Finance
- Global Economics and International Business
- Graphic Design
- History
- History-Political Science*
- Integrated Language Arts Education
- Integrated Life Science Education
- Integrated Mathematics Education
- Integrated Physics Education
- Integrated Physical Science Education
- Integrated Science Education
- Integrated Social Studies Education


## 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:

- Art
- Bible
- 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 Promotion
- History
- International Business
- Literature
- Management Information

Systems

- Mathematics
- Missions
- Multi-Age Health Education
- Music
- Philosophy and Religion
- Organizational

Communications

- Physics
- Political Science
- Preseminary Bible
- Psychology
- Public Administration
- Sociology
- Spanish
- Spanish for Professionals
- 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
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- 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

## Emergency Medical Services

Cedarville University Emergency Medical Services (CUEMS) originated in 1965 when a men's service organization, Alpha Chi, formed the Cedarville College Fire Department. In 1969 the fire department was converted into a rescue squad. Today, CUEMS is comprised of students who are state and nationallycertified EMTs and/or paramedics and who volunteer their time to act as the Emergency Medical Services division of Cedarville University Medical Services.
The squad responds primarily to emergencies on campus, but CUEMS offers its services to the community as well. The department has a mutual aid agreement with the Cedarville Township EMS, serving as a backup squad when the need arises.
CUEMS has several goals for the operation of its pre-hospital and transport services. As a Christian organization, its primary goal is to be an outstanding testimony for the Word of God and the testimony of Jesus Christ to all publics of this organization. The desire of CUEMS is to comfort and show compassion for those for whom they care. Squad members strive not only to address physical needs but to reassure their patients emotionally. Another goal is to provide opportunities for practical application of classroom knowledge. Involvement in this service provides those pursuing careers in the medical field with practical experience and offers all members, regardless of major, opportunities to cultivate skills in teamwork, to operate efficiently in stressful situations, and to make sound decisions quickly.
Since state certification is required and national certification is recommended for membership on the squad, the University grants credit to those matriculated Cedarville students who complete the National Registry's approved programs in EMT training. Upon receipt of bona fide copies of National Registry certificates of completion, the University will grant 3 semester hours of elective credit for EMT-Basic training, 2 additional semester hours for EMT-Intermediate training, and 5 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 layman at church. This curriculum is outlined in the biblical education section of this catalog.

## Preprofessional Programs

Many students seek specialized training in professions after attending Cedarville University. A number of preprofessional programs are available. The preseminary curriculum, which prepares students for seminary studies and the gospel ministry, is outlined in the biblical education section of this catalog. The prelaw curriculum prepares students for law school and is explained in the social sciences and history section of this catalog. Preprofessional 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:

1. Score $21^{*}$ or higher on the English section of the ACT; or
2. Score $500^{*}$ or higher on the verbal section of the recentered SAT; or
3. Score 53 or higher on the CLEP English Composition Examination; or
4. Score 25 or higher on the Cedarville University English Proficiency Examination; or
5. Complete a course equivalent to the Cedarville University ENG-1000 Basic English with a grade of "C-" or higher ( $\mathrm{A}=4.0$ 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
6. Complete a college-level composition course with a grade of "C-" or higher ( $\mathrm{A}=4.0$ system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through a successful completion of the course ENG-1000 Basic English (3 semester hours), which is to be taken during the first semester of matriculation. These 3 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:

1. Score $19^{*}$ or higher on the mathematics section of the $A C T$; or
2. Score $500^{*}$ or higher on the quantitative section of the recentered SAT; or
3. Score 48 or higher on the CLEP College Algebra exam; or
4. Score 10 or higher on the Cedarville University Algebra Proficiency Examination; or
5. Complete a course equivalent to DEV-0900 Intermediate Algebra with at least a grade of "C-" or higher ( $\mathrm{A}=4.0$ 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
6. Complete a course equivalent to the Cedarville University GMTH-1020 College Algebra with a grade of "C-" or higher ( $\mathrm{A}=4.0$ system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through successful completion of the course DEV-0900 Intermediate Algebra ( 2 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 2 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 Education16 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, 3060 Nursing in Relationships I and II ..... 4
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 Humanities elective or 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 complete one of the following:
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

## Academic Information

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 in number four 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 East 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
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.
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 3 semester hours selected from the following quantitative courses:
BUS-2110, 2120 Statistics4
EDUC-2800 Principles of Mathematics II .....  3
GMTH-1010 Introduction to Mathematics ..... 3
GMTH-1020 College Algebra ..... 3
GMTH-1030 Precalculus ..... 4
GMTH-1040 Calculus for Business ..... 4
GSS-3610 Data Analysis ..... 3
(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 additionalsix semester hours. These hours must be selected fromcourses with BIO, CHEM, ESCI, GSCI, GMTH, MATH, and PHYSdesignators; decision sciences; statistics; or computer applica-tion courses selected from the following:EGCP-1010 Digital Logic Design3
EGCP-1310 Algorithmic Programming ..... 2
MIS-2000 Structured Programming ..... 3
MIS-3510 COBOL Programming ..... 3
VIII. Social Sciences and History ..... 9 hrs
A. GSS-1000 Foundations of Social Science ..... 3
B. One course in history ..... 3
C. One course selected from the following: ..... 3
A second HIST course
Any course with a designator of
PYCH-1600 General Psychology
*ANTH-1800 Cultural Anthropology may satisfy either Humanities electiveor Social Science elective, but not both.
Total General Education Requirements52-63
Many of these courses also satisfy the requirements for majorfields of study.


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


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 fouryear 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 64 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, page 19

## 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.
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 terms, must apply to participate in commencement before degree requirements are met. Students who have more than 18 semester hours to complete after the spring term must obtain approval from the academic vice president to participate in commencement. Information concerning eligibility for August or December graduation and early commencement is available in the Academic Services Office.

## 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, 3 days a week, for 15 weeks, receives 3 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 $15-18$ 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 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 chair 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 chair, 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 | $1-30$ |
| 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 theadvisor.
Out-of-class course approval forms are available in the Academic Services Office. 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 region-ally-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 Academic Services Office.

## 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 3 semester hours.
3. The faculty member supervising the independent study, the student's advisor, and the department chair must sign the student's independent study form. Registration for the independent study must occur at the beginning of the semester in which the work is to be completed.
4. No more than 6 semester hours in independent study may be counted toward the major field, no more than 3 semester hours toward a minor field, and no more than 12 semester hours may be counted 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.


Many well-known speakers come to the Cedarville Campus to share inspiring messages from God's word.

## 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 Academic Services Office, 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 testout 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 Assistance

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

## Tutoring

Tutoring is available to students desiring supplemental learning opportunities. The Student Government Association, in conjunction with the Academic Assistance Office, offers student-to-student tutoring in several courses each semester including GMTH-1040 Calculus for Business, CHEM-1000 Principles of Chemistry, BIO-1000 Principles of Biology, GSS-1000 Foundations of Social Science, and others. Additionally, private tutoring may be arranged with individuals recommended by the professor of the course or through the Academic Assistance Office. Faculty assistance is available for all courses during posted office hours.

## Transient Study

Course work 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 Academic Services Office. 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 planning help, contact Cedarville University's Travel Study Director, Dr. Kevin Sims.

## ARRIBA

ARRIBA, Academic Residency and Research Internship for Baptists Abroad, is a work/study program sponsored by Faith Baptist Bible College, in Ankeny, IA, 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 of up to $\$ 1,500$. 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 the 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 Dr. Kevin Sims or the Travel Study Office. Application procedures and program details are also listed at www.cedarville.edu/dept/sumsch/travelstudy.

## The Council for Christian Colleges and Universities Study Programs

Cedarville University cooperates with the CCCU in offering programs for students in the places listed below. Students interested in any program should contact Dr. Kevin Sims or the Travel Study Office for more information. Application Procedures and program details are also listed at www.cedarville.edu/dept/sumsch/travelstudy.

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 for any of the programs. Program details are available at www.cedarville.edu/dept/sumsch/travelstudy.

Focus on the Family Institute
IBEX (The Master's College)
ISEPS (Seville, Spain)
JUC (Jerusalem University College)
OSAP (Oxford Study Abroad Program)

## IBI - International Business Institute

The International Business Institute is a cooperative overseas program in international economics and business management. This ten-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 School

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 tuition-free 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 for a list of summer school courses being offered.


Daily chapel provides students with an opportunity to worship and to focus on nurturing their relationship with God.

## 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 Academic Services Office of their change in status.
Registration information, including printed registration instructions and course schedules for the semester, is distributed by the Academic Services Office prior to the respective registration periods. Additionally, registration information, including available course offerings and sections, is available on the University website.
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 website. 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 Academic Services webpage or from the Academic Services Office.


[^1] times of fun and fellowship.

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

It is the student's responsibility to verify the accuracy of his/her 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, chair 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 through 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 Academic Services Office 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:

## Week Course Is Dropped

Before the end of the 1st full calendar week

During 2nd full calendar week through 9th calendar week

10th and 11th calendar weeks

Week 12 through the end of the semester

Course changes are complete when the Academic Services Office receives the completed drop/add form. The effective date of the course change is the date the Academic Services Office 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 Academic Services webpage.

## 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 Academic Services Office, 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 Academic Services Office on the last day the student is on campus. No student should leave Cedarville University without completing proper withdrawal through the Academic Services Office.
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 Services 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


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

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 course work upon returning to the University without having to pay tuition again. Forms may be picked up in the Academic Records Office.
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 Academic Services Office 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: 2004-05 is an even year.

## Grading System

A Recognizes excellent achievement. It is indicative of supe-rior-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 "l" 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 academic vice president 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.


Dr. Dixon joins a group of Cedarville students to "make some noise" at a men's home soccer game.

## 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- | .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 <br> Attempted | Minimum Cumulative <br> GPA for Academic <br> Probation | Minimum Cumulative <br> GPA for Accademic <br> 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 suspen-
sion. 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 Office, 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 student who earns 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.
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 4th 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.

## 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 highranking 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."
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 2 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 Academic Services and Student Services Offices.

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
- Nursing
- Science and Mathematics


## School of Health and Human Performance

Dean: Pamela Diehl Johnson, Senior Professor of Physical Ed. 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
- Exercise and Sport Science
- Intercollegiate Athletics


## School of Humanities, Fine Arts, and Bible

Dean: Robert Milliman, 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.
Departments:

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


## School of Social Sciences and Professional Studies

Dean: Merlin Ager, Professor of Education.
Education: B.A., Cedarville University, 1960; M.S., University of Wisconsin, 1962; graduate study, Miami University, summer of 1963; Ph.D., The Ohio State University, 1967. At Cedarville 196475, 1978 to present.
Departments:

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



## Purpose Statement

The Mission of the Cedarville University Athletic Training Education Program (CU 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 NATA-BOC). The CU ATEP meets the requirements set forth by the National Athletic Trainers'

Association (NATA) and the Commission of Accreditation of Allied Health Education Programs (CAAHEP). Even though the CU ATEP has not yet been formally recognized as having accreditation status, the program was reviewed by the Joint Review Committee for Athletic Training (JRC-AT) in April of 2004 and a final decision is expected sometime during the 2004-05 academic year.

## 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. A semi-annual $1 \frac{1}{2}$ mile run is used to evaluate the status of the student's fitness.


[^2] ministry in a variety of settings.

# Athletic Training <br> School of Health and Human Performance 

## Department Requirements

## Admission and retention

Athletic training clinical education is a relatively labor-intensive product to deliver well. Because there is a finite number of quality sports medicine opportunities available on campus, The CU ATEP limits each academic class to no more than 10 students each (i.e. 10 seniors, 10 juniors, and 10 sophomores). There is currently no limit to how many freshman may declare athletic training as their major, but if more than 10 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 CU 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/dept/es/athletictraining
8. Current certification in cardiopulmonary resuscitation (CPR) including AED.
Retention criteria include:
9. Earn a grade of "C-" or better in all athletic training courses
10. Maintain a cumulative grade point average of 2.25
11. Maintain current CPR certification
12. Successful completion of clinical proficiencies established for each term
13. Positive recommendation by the faculty/clinical instructors of the ATEP
Graduation requirements include:
14. Earn a grade of "C-" or better in all athletic training courses
15. Member of the NATA
16. Successful completion of all clinical proficiencies
17. Apply for the NATA-BOC certification exam
18. Meet 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

Robert Duchardt, Assistant Professor of Athletic Training. Certified athletic trainer (NATA-BOC). Education: B.S., Taylor University, 1965; M.S., Union College, 1973; graduate study, West Chester State College, 1977. At Cedarville since 1989.
Evan Hellwig, Associate Professor of Athletic Training. Certified athletic trainer (NATA-BOC); licensed physical therapist. Education: B.S., Mankato State University, 1984; Physical Therapy Certificate, University of lowa School of Medicine, 1986; Ph.D., University of Virginia, 1992. At Cedarville 1986-89, 1992 to present.
William Vine, Associate Professor of Athletic Training. Head Athletic Trainer; Certified athletic trainer (NATA-BOC). Education: B.A., California State University-Chico, 1982; M.A., San Jose State University, 1989. At Cedarville since 2001.
Christopher Cross, Assistant Professor of Athletic Training. Certified athletic trainer (NATA-BOC); B.S., Alderson-Broaddus; M.S., West Virginia University. At Cedarville since 2004.


The Cedarville 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 component of the ATEP. 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 an ATC with a lower extremity sport, an upper extremity sport, an equipment intensive sport (football), and managing an athletic training facility. 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
Training2
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
Total (minimum, not including proficiency) ..... 128.5

A complete description of the General Education Requirements is found on page 18

## 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
BIO-1000 Principles of Biology ..... 3.5
CHEM-1000 Principles of Chemistry .....  5
ENG-1400 Composition ..... 2
GMTH-1020 College Algebra ..... 3
MAHE-1000 Introduction to the Health Profession ..... 1
PEF-1990 Physical Activity and the Christian Life .....  3
Total ..... 32.5
Summer:
ATRN-2900 Sports Medicine Clinic ..... 0
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-1000 Foundations of Social Science ..... 3
Physical Education Activity Elective ..... 1
Electives ..... 3
Total ..... 32
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
MAHE-3030 Nutrition for Health and Weight Control .....  .2
MAHE-3100 Drug Education ..... 3
MAHE-3500 Community Health Concepts ..... 2
Literature Elective ..... 3
Electives ..... 7
Total ..... 32
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
ESS-4600 Research in Athletic Training and Exercise Science ..... 2
History Elective. ..... 3
Humanities/Global Awareness Elective ..... 3
Electives ..... 9
Total ..... 32

## 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; BIO2010 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; BIO2010 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: ATRN1550 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 a varsity team 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 a varsity team 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-SpA 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 the athletic training facility 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
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; ATRN3930 SEAT-Lower Body. (Fee: \$35)


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

## Purpose 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
- Comprehensive Bible
- Philosophy
- Christian Education
- Preseminary Bible
- Inte
- Pastoral Studies


## Minors

- Bible - Philosophy and Religion
- Christian Education
- Preseminary
- Greek
- Women's Ministry
- Missions
- 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 majors are encouraged to take full advantage of them. For example:

- Chi Delta Nu encourages students going into youth ministry through prayer, fellowship, and service.
- 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 • Pastor
- Camp director
- Christian education director
- Philosopher
- Missionary
- Writer
- Youth pastor


## Faculty

Chris Miller, Chairman: 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.
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, Associate 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.
Thomas Cragoe, 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.
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, Associate Academic Vice President; 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.
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), 2004. 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; all work completed for Ph.D. except dissertation, Trinity Evangelical Divinity School. 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. All work completed for Ph.D. except dissertation, The Ohio State University. At Cedarville since 2001.
David Hoffeditz, Assistant 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.
Michael Holt, Assistant Professor of Bible. Education: B.A., Moody Bible Institute, 1977; Th.M., Dallas Theological Seminary, 1983. At Cedarville Since 2001.

Thomas Hutchison, Assistant Chair; 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, Assistant 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.
Robert Milliman, Professor of Bible, Dean, School of Humanities, Fine Arts, and 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 Parrot, Assistant Professor of Bible. Education: B.S., California Polytechnic State University, 1974; M.Div., Western Conservative Baptist Seminary, 1977. At Cedarville since 2004.
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, 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 19761991.

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.


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.

## 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: General Education .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
Bible Teacher Education Core................................................... 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
Professional Education Requirements ................................ 36-38
EDSE-4100 Principles of Teaching-AYA .............................. 5
EDSE-4450 Clinical Teaching-AYA..................................... 3
*EDSE-4900 Student Teaching and Semiar-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
Total (minimum, not including proficiency) ......................... 128

A complete description of the General Education Requirements is found on page 18

## 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
3
COM-1100 Fundamentals of Speech .................................................. 3
EDUC-1000 The Education Profession ........................................................ 1
ENG-1400 Composition ....................................................................... 3
GSS-1000 Foundations of Social Science .......................................... 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
Total ........................................................................................... 32.5
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
Total ........................................................................................... 30.5

## 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
Total ............................................................................................... 33

## 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 Semiar-AYA ............................ 10-12
EDUC-4500 Philosophy of Education .................................................... 2
Total ............................................................................................... 32

## 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: General Education ..... 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
Comprehensive Bible Core ..... 44
BECE-2000 Christian Education Survey ..... 3
BECE-XXXXElective ..... 3
BENT-XXXX New Testament Electives ..... 6
BEOT-XXXX Old Testament Electives ..... 6
BEPH-2200 Introduction to Philosophy ..... 3
BEPH-XXXXElective ..... 3
BEPT-XXXX Practical Theology Electives ..... 6
*BEST-4910 Seminar in Bible ..... 2
BEST-XXXX Elective ..... 3
BETH-XXXX Theology Electives ..... 6
Bible Electives ..... 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
Total (minimum, not including proficiency) ..... 128


Dr. Cook, Assistant Professor of Bible, draws upon years of personal experience to challenge his students with the importance of urban ministry.
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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
PEF-1990 Physical Activity and the Christian Life .....
Biology Elective ..... 3.5
History/Global Awareness Elective ..... 3
Literature Elective ..... 3
Physical Science Elective ..... 3.5
Total ..... 32
Second year:
BECE-2000 Christian Education Survey ..... 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
lectives .....  9
Total ..... 31
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
Total ..... 33
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
Total ..... 32

## 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: General Education16
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
Christian Education Core ..... 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-3300recommended) .....  3
Select one of the following ministry concentrations. ..... 6
Children's Ministries
EDEC-2100 Art, Music, and Drama for Early Childhood .....  2
EDSP-2500 Survey of Mental Retardation andDevelopmental Disabilities 1
EDUC-2400 Children's Literature ..... 2
EDUC-3990 Independent Study Education ..... 1
Church Music Ministries
CHMU-2060 Music and the Arts in Worship ..... 3
CHMU-2600 Music of the Church ..... 3
Cross-Cultural Ministries*
BEPT-3450 Contemporary World Missions ..... 3
BEPT-3510 Introduction to Urban Ministry ..... 3
*Students who select the cross-cultural ministries concentra-tion should take BETH-3400 as the theology elective.
Sports Ministries
BECE-2100 Wilderness Ministry ..... 3
CCHG-3670 Fundamentals of Coaching .....  3
ESSE-2810 Introduction to Camping ..... 2
ESSE-2830 Recreational Leadership ..... 2
SMGT-3810 Organization and Administration of Sports and Athletics ..... 3
Women's MinistriesBECE-3000 Women and Ministry3
BECE-3500 Women's Communication for Ministry ..... 3
COM-3150 Women in America ..... 3
*Capstone Course

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-1000 Foundations of Social Science .....  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
Total ..... 33
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
Total ..... 31
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
Total ..... 28
Summer:
BECE-4500 Internship in Christian Education ..... 10-12
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
Total ..... 24-26
Christian Education Curriculum SummaryProficiency Requirements0-5
General Education Requirements ..... 33-41
Christian Education Major Requirements ..... 75
Electives ..... 2-20
Total (minimum, not including proficiency) ..... 128

## 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: General Education16
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
Pastoral Studies Core ..... 45-47
BECE-2000 Christian Education Survey .....  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: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 SummaryProficiency Requirements .0-5
General Education Requirements ..... 33-41
Pastoral Studies Major Requirements ..... 61
Electives ..... 26-34
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education

Requirements is found on page 18

## 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-1000 Foundations of Social Science .....  3
HUM-1400 Introduction to the Humanities ..... $\ldots 3$
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
Total ..... 33
Second year:
BECE-2000 Christian Education Survey ..... 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
Total. ..... 30
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
Total ..... 33
Fourth year:
BEPT-4400 Pastoral Internship ..... 10-12
Special Topics Elective. .....  3
Theology Elective ..... 3
Electives ..... 14-16
Total ..... 32

## 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:
Philosophy Core ................................................................... 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
Philosophy Electives ................................................................. 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............................... 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
Total (minimum, not including proficiency) ...................... 128

## A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science ..... 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
Total ..... 33
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
Total ..... 32
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
Total ..... 31
Fourth year:
BEPH-3340 Current Philosophical Developments ..... 3
BEPH-4910 Seminar in Philosophy ..... 2
Philosophy Electives .....  5
Electives ..... 22
Total ..... 32

## 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, which 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 45 semester hours including:
General Education ................................................................ 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
Preseminary Core ..................................................................... 23
BECE-2000 Christian Education Survey .............................. 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-XXXXTheology Elective ............................................ 3
Preseminary Concentration ........................................................ 6
Concentration areas include Biblical Languages, Christian Education, New Testament, Old Testament, Philosophy, or Practical Theology.

Required Minor in Biblical Greek. 16
BEBL-2510,2520 Elementary Greek ..... 10
BEBL-3510,3520 Intermediate Greek ..... 6

## Recommended Minor

Students are encouraged to select another minor from the following to add breadth to the program: broadcasting, business administration, christian ministries management, church music, comprehensive communication arts, creative writing, English, 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 ..... 45
Required Minor ..... 16
Electives ..... 26-34
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science .....  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
Total ..... 33
Second year:
BECE-2000 Christian Education Survey .....  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
Total. ..... 30
Third year:
BEBL-2510,2520 Elementary Greek ..... 10
BEGE-3750 Christian Worldview Development .....  2

BEGE-3760 Christian Worldview Integration ..... | ... |
| :---: |
|  |

New Testament Elective .....  3
Electives ..... 15
Total ..... 32
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 .....  6
Electives ..... 10
Total. ..... 33

## 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: General Education ..... 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
Youth Ministries Core ..... 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
Select one ministry elective from the following: .....  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
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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
BEGE-1710 Christian Life and Thought ............................................... 3
BEGE-1720 Spiritual Formation ........................................................... 3
COM-1100 Fundamentals of Speech .................................................. 3
ENG-1400 Composition ....................................................................... 3
GSS-1000 Foundations of Social Science .......................................... 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
Total ............................................................................................... 32
Second year:
BECE-2400 Interpreting and Teaching the Bible .................................... 6
BEGE-2730 Old Testament Literature ................................................. 3
BEGE-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
Total ............................................................................................... 31
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-3410 Discipleship ...................................................................... 3
BEOT-XXXX Old Testament Elective ................................................... 3
Minor Requirement or Electives ......................................................... 10
Total ......................................................................................................... 32
Summer:
BECE-4750 Internship in Youth Ministry ...................................... 10-12
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
Total ......................................................................................... 21-23

## 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. 115) 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. 112) for details on other concentrations.
International Studies Core Requirements $\qquad$
${ }^{1,2}$ 2NTH-1800 Cultural Anthropology ................................... 3
${ }^{2}$ BEPH-2260 Religion and Culture ...................................... 3
BUS-3910 International Business ...................................... 3
${ }^{2}$ COM-3140 Intercultural Communication ........................... 3
(or PYCH-1800 Cross Cultural Psychology ...................... 3)
GEO-3510 World Regional Geography-West ...................... 3
(or GEO-3520 World Regional Geography-East .............. 3)
${ }^{3}$ 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:

Missiology Concentration Requirements..............................................................
BECE-4100 Leadership of CE Ministries .........
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
Electives selected from:
18
Two courses in philosophy:
BEPH-2200 Introduction to Philosophy ........................... 3
BEPH-2250 Ethics ........................................................... 3
BEPH-3250 Philosophy of Religion .................................... 3
BETH-3330 Christian Evidences and Apologetics ........... 321
One course in sociology:
SOC-3340 Sociology of Religion ..... 3
SOC-3710 Family and Society ..... 3
One course in geography or political science:
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 East 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
One course in economics.
ECON-3350 Comparative Economic Systems ..... 3
ECON-3360 International Trade and Economics ..... 3
ECON-3380 Economic Development and Political Economy ..... 3
One course in literature or culture:4LIT-2340 Western Literature3
SPAN-3680 Understanding Hispanic Culture ..... 3
${ }^{1}$ Satisfies social science General Education Requirement${ }^{2}$ Satisfies humanities General Education Requirement${ }^{3}$ Satisfies history General Education Requirement${ }^{4}$ Satisfies literature General Education Requirement
*Capstone Course
International Studies Major-Missiology Concentration Curricu- lum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 40-48
International Studies Core Requirements ..... 21
Missiology Concentration Requirements ..... 60
Electives ..... 0-7
Total (minimum, not including proficiency) ..... 128


Assistant Professor of Bible and Greek, Dr. David Hoffeditz, integrates knowledge of God's Word with practical applications.

## 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:
General Education ................................................................... 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
Other Bible Electives ............................................................... 6

## Minors

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
BECE-3680 Children's Ministries ............................................. 4
or BECE-3700 Campus Ministries ....................................... 4
or BECE-3720 Adult Ministries ............................................. 4
Any courses with BECE or BEPT designators ......................... 6
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.

The mission minor for the student interested in crosscultural ministries involves 18 semester hours including:
BEPT-2000 Introduction to Mission3
BEPT-2420 History of Mission ..... 3
BEPT-3450 Contemporary World Missions ..... 3
BEPT-3470 Cross Cultural Ministry ..... 3
At least 6 hours (selected from):
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

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.

The preseminary minor is designed to help the student prepare for graduate theological education and consists of 17-21 semester hours including:
BEBL-2510 Elementary Greek ............................................... 5
and BEBL-2520 Elementary Greek ...................................... 5
or BEBL-2610 Elementary Hebrew .......................................... 3
and BEBL-2620 Elementary Hebrew ................................... 3
BEPH-3250 Philosophy of Religion ......................................... 3
BEST-2910 Theological Research ........................................... 2
At least two courses (selected from):
BEPH-2240 Logic3
BEST-4310 Hermeneutics ..... 3
BETH-3330 Christian Evidences and Apologetics ..... 3
BETH-4320 Contemporary Theology ..... 3

The women's ministry minor involves 20 semester hours for students interested in developing the practical and skill-oriented facets for ministering to women in the local church and mission settings. Course requirements are:
BECE-3000 Women and Ministry ................................................... 3
BECE-3500 Women's Communication for Ministry ................. 3
BECE-3510 Small Group Ministry ............................................ 3
BEPT-2400 Personal Evangelism ........................................... 3
BEPT-3410 Discipleship .......................................................... 3
BEPT-3430 Pastoral Counseling ............................................. 2
Select one of the following courses:
COM-3150 Women in America .3
SOC-3750 Social Movements ....................................................................... 3
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
Any courses with BECE or BEPT designators ......................... 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; BEGE1720 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 develoment 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.

## Biblical Languages

BEBL-2510, 2520 Elementary Greek 5 hours/semester
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 Elementary Hebrew 3 hours/semester Introduction to the basic elements of biblical Hebrew. Attention is given to vocabulary, grammar, and the use of language tools. BEBL-3510, 3520 Intermediate Greek 3 hours/semester
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: \$100)

## BEOT-3120 Historical Books I

3 hours
Study of the history of Israel from the entrance into Canaan until the end of the reign of Solomon. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (odd years)

## BEOT-3125 Studies in the Historical Books-Sp 3 hours

Selected studies in the historical books from the entrance into Canaan until the restoration after the exile. Prerequisite: BEGE2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.
BEOT-3130 Historical Books II
3 hours
Study of the history of Israel from the division of the kingdom of David-Solomon until the restoration after the exile. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (odd years) 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-3160 Major Prophets I

3 hours
Study of Isaiah, Jeremiah, and Lamentations. The ministry of the prophets to their own times is carefully considered. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years)
BEOT-3165 Studies in the Prophetical Books-Sp 3 hours Selected studies in the prophetical books. The ministry of the prophets to their own times is considered as well as their predictions, both fulfilled and unfulfilled. Prerequisite: BEGE2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.

## BEOT-3170 Major Prophets II

3 hours
Study of Ezekiel and Daniel. The ministry of the prophets to their own times is considered as well as their predictions, both fulfilled and unfulfilled. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (odd years)

## BEOT-3180 Minor Prophets

3 hours
Chronological study of the 12 minor prophets, their ministry in relation to Israel and other contemporary nations, and their practical message for today. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years)
BEOT-4900
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
Investigation of special topics in Bible and theology, which 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: BEGE2730 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 <br> 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. (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. (even years)

## BENT-4900 <br> 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, which 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-2000 Christian Education Survey-Sp 3 hours
Survey of the multifaceted world of local church education for the pastor, missionary, seminary-bound student, or local church volunteer educator. This course may not be used toward the required hours for a Christian education or youth ministries major. 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: BEGE1720 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-3000 Women and Ministry-Fa
3 hours
Designed to develop from the biblical text, church history, and present-day ministry situations, the concept and practice of the role of women in ministry. (Fee: \$20)
BECE-3500 Women's Communication for Ministry-Sp 3 hours Survey of the basic principles that form the foundation of effective, biblical communication for women. The course will build on the inductive Bible study method, specific message preparation, and practical communication skills. Specific ministry communication assignments will include personal testimony, children's sermon, Bible study discussions, and devotionals. Prerequisites: BEGE-1720 Spiritual Formation; COM-1100 Fundamentals of Speech.
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-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 for 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) BECE-3705 Campus Ministries for non-majors-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 but does not include the teaching lab. No prerequisites. (Fee: \$20)

## BECE-3720 Adult Ministries-Fa <br> 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
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; BECE3720. No prerequisites for non-majors.

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 $\quad \mathbf{1 0 - 1 2}$ 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: Bible faculty approval; successful completion of 5 of the 6 required core courses in Christian education.

## 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; BEST-2400 Interpreting the Bible; BECE-2410 Principles of Bible Teaching; 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.
BECE-4900
1-3 hours
Independent Study in Christian Education-Fa,Sp,Su
Students will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge.
BECE-4990 Topics in Christian Education 1-3 hours
Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

## Bible 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 responsibilites. 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 principal 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

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
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

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 mindbody 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-Fa 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
1-3 hours
Independent Study in Philosophy-Fa,Sp,Su
The student will investigate a significant topic of philosophy of special interest with a view toward integration of knowledge. 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: \$10)

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
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.
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.
BEPT-3470 Cross-Cultural Ministry-Fa 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-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 multicultural 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. (even years)
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.
BEPT-4500 Missionary Internship
3-6 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 6 credit hours.
BEPT-4510 Advanced Urban Ministry-Sp
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) (even years)
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

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-2330 Bible Geography and Customs-Sp
3 hours
Geographical survey of Bible lands with stress on the topography and cultural distinctives in their historical context. (odd years) 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-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: \$100) (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-4990 Topics in Special Topics
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-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 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

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.

## Purpose Statement

The mission of the Department of Business Administration is to facilitate the development of business leaders who are personally discerning and professionally competent, and who will influence their organizations, professions, and culture from a biblical paradigm.

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 valuecentered curriculum enhanced by an extensive information technology system and a series of personal and professional development seminars.
- In addition, across the curriculum, we have integrated ethical considerations, global awareness, and an emphasis on oral and written communication skills.
- The distinctive competency of our program is the integration of biblical truth within each of the business disciplines.
In light of our mission, the 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.

## 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 chairman.

- 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 chairman 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 Department of Business Administration course, students must have satisfactorily completed all 2000-level Department of 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 chairman.
- 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
- Management
- Finance
- International Studies: Global
- Management

Economics and International - Marketing Business
Minors

- Business Administration
- Christian Ministries

Management

- Economics


## Co-Curricular Opportunities

The Department of Business Administration provides several cocurricular opportunities for students to enhance their classroom experience as they prepare for their professional careers.
Sigma Beta Delta, an international honor society in business, management, and administration, recognizes junior and senior business majors who maintain excellent scholastic achievement. 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.
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. 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:

- Staff Accountant
- 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
- Investment Account Manager
- 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
- Compensation/Benefits Manager
- Plant Manager
- Project Manager
- Operations Manager
- Quality Manager
- Materials/Inventory Control Manager


## Management 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 MIS major prepares individuals for careers as:

- Information Systems Analyst
- Programmer/Analyst
- Business Systems Consultant
- E-business Developer
- Manager in Information Systems Departments
- 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

Ronald Walker, Chairman: 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.
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.
Richard Baldwin, Professor 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.
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, Associate 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 Syndey, 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.
Gary Habegger, Assistant Chair for External Relations, Assistant Professor of Management. Education: B.S., Seattle Pacific

University, 1966; M.S., Michigan State University, 1968; M.B.A., University of Michigan, 1978. 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.
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.
D. Lance Revenaugh, Associate Professor of Management Information Systems. Education: B.B.A., Baylor University, 1984; M.B.A., Baylor University, 1985; Ph.D., Arizona State University, 1992. At Cedarville since 2000.

Anne Rich, Assistant 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.
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. 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.
Susan Terkelsen, Assistant Professor of Information Technology. Education: B.A., Cedarville University, 1988; M.A., Miami University, 1989. At Cedarville since 1999.
Bert Wheeler, Professor of Economics. Education: B.S., University of Tennessee, 1981; M.A., University of Tennessee, 1984; Ph.D., University of Tennessee, 1985. At Cedarville since 1992.

Duane Wood, Academic Vice President; Professor of Management. Education: B.S.M.E., Rose-Hulman Institute of Technology, 1964; M.B.A., Butler University, 1968; D.B.A., Indiana University, 1974. At Cedarville since 1987.

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.

## 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.
Mr. Ronald Baker, Hi-Tech Aero Spares
Mr. Eric Cluxton, Fifth Third Bank, Dayton
Mr. John Danis, The Danis Building Construction Co.
Mr. Ronald Ferner, Philadelphia Biblical University
Mr. John Field, Wallace \& Turner, Inc.
Ms. Georgeann Georges, Sears, Roebuck and Co.
Mr. George Guritz, Shepherd Financial Group, Inc.
Mr. William Hann, KeyBank
Dr. Rajshekhar Javalgi, Cleveland State University
Mr. Mitchell Jones, Arel Learning Solutions, Inc.
Mr. Larry Krukewitt, Regional Development Company
Dr. Wayne Leininger, Virginia Tech
Mr. Delmar Mohler, Faith Baptist Bible College
Mr. Lorne Scharnberg, KATECHO, Inc.
Ms. Lynda Sikora, Custom Mobile Food Equipment
Mr. Doug Smith, Retired, Baja Marine Corporation
Mr. Mike Stephens, Greene Memorial Hospital
Mr. Jerry Tatar, The MeadWestvaco Corporation


Business students work with local professionals to gain extensive experience and knowledge of the real business world.

## Accounting

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

Course requirements involve 62 semester hours including:
BusinessAdministration Core............................................... 41
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 Financial Management of the Firm ...................... 3
MGMT-3500 Principles of Organization and Management. 3
*MGMT-4510 Administrative Policy and Strategy ................ 3
MIS-1500 Information Management in a Dynamic World ... 2
MIS-1510 Software Tools for Business .............................. 1
MRKT-3600 Principles of Marketing ........................................... 3
Accounting ............................................................................................
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
ACCT-4130 Advanced Financial Accounting ...................... 3
Required cognate:
GMTH-1040 Calculus for Business and Social Sciences . 3
(Satisfies mathematics for General Education Requirements)
*Capstone Course
Accounting Major Curriculum Summary
Proficiency Requirements ....................................................... 0-5
General Education Requirements ....................................... 49-57
Accounting Major Requirements .................................................. 62
Required Cognate ........................................................................ 3
Electives ................................................................................ 6-14
Total (minimum, not including proficiency) .......................... 128
The CPA concentration takes into account 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 websites, and all addresses, can be found on the website of the National Association of State Board of Accountancy at www.nasba.org.
Students may qualify for the Ohio requirements through completion of the accounting major requirements ( 128 semester hours) plus an additional 22 semester hours of elective coursework including some additional accounting electives. The course plan includes the following:

Accounting Major Requirements
128 hours
Accounting Elective .................................................................. 3 hours
Other Elective Courses
19 hours
Total
150 hours
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
ACCT-4210 Taxation of Business Entities 3

A complete description of the General Education Requirements is found on page 18


## Business Administration

## 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 59 semester hours including: Business Administration Core41
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 Financial Management of the Firm ..... 3
MGMT-3500 Principles of Organization and Management ..... 3
*MGMT-4510 Administrative Policy and Strategy ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
MRKT-3600 Principles of Marketing ..... 3
Finance ..... 18
ACCT-3110 Intermediate Financial Accounting I ..... 3
FIN-3310 International Money and Capital Markets ..... 3
FIN-3730 Investments ..... 3
FIN-4770 Advanced Financial Management ..... 3
3000 and 4000 Finance Electives ..... 6
Required cognate:
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 ..... 59
Required Cognate ..... 3
Electives ..... 9-17
Total (minimum, not including proficiency) ..... 128

## 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. 114 of this catalog.

## A complete description of the General Education Requirements is found on page 18

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

## First year

BEGE-1710 Christian Life and Thought3
BEGE-1720 Spiritual Formation ..... 3
COM-1100 Fundamentals of Speech ..... 3
ENG-1400 Composition ..... 3
GMTH-1040 Calculus for Business ..... 3
GSS-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
PEF-1990 Physical Activity and the Christian Life ..... 1
Biological Science Elective ..... 3.5
History Elective ..... 3
Physical Education Elective ..... 1
Total ..... 32.5
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
Total ..... 34.5
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 Financial Management of the Firm ..... 3
MGMT-3500 Principles of Organization and Management ..... 3
MRKT-3600 Principles of Marketing ..... 3
Major Requirements ..... 6
Humanities Elective ..... 3
Total ..... 30
Fourth year
BUS-4420 Business Ethics and Social Responsibility ..... 2
BUS-4990 Executive Development ..... 0
MGMT-4510 Administrative Policy and Strategy ..... 3
Major Requirements .....
Electives ..... 17
Total ..... 31

# Business Administration 

## 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 59 semester hours including: Business Administration Core
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 Financial Management of the Firm ..... 3
MGMT-3500 Principles of Organization and Management. ..... 3
*MGMT-4510 Administrative Policy and Strategy ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
MRKT-3600 Principles of Marketing ..... 3
Management9
MGMT-3520 Production and Operations Management . ..... 3
MGMT-3550 Organizational Behavior ..... 3
MGMT-3570 International Management ..... 3
Students must also choose an area of interest from the following: ..... 9
Human Resources ManagementMGMT-3530 Human Resources Management 3
MGMT-4560 Organizational Change and Development ..... 3
One course from the following:
COM-3260 Organizational Negotiation ..... 3
COM-3330 Organizational Training ..... 3
MGMT-4530 Industrial Relations Management ..... 3
PYCH-3640 Industrial/Organizational Psychology ..... 3
Operations Management
MGMT-3540 Management Science ..... 3
MGMT-4570 Advanced Topics in Operations Management ..... 3
One course from the following:
MGMT-4520 Purchasing and Materials Management ..... 3
MGMT-4530 Industrial Relations Management ..... 3
Organizational Leadership
COM-4060 Organizational Leadership ..... 3
MGMT-4550 Advanced Organizational Behavior ..... 3
One course from the following:MGMT-3510 Small Business Management3
MGMT-3530 Human Resource Management ..... 3
MGMT-3540 Management Science ..... 3
MGMT-4520 Purchasing and Materials Management ..... 3
MGMT-4530 Industrial Relations Management ..... 3
MGMT-4560 Organizational Change and Development ..... 3

## A complete description of the General Education

 Requirements is found on page 18
## 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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
PEF-1990 Physical Activity and the Christian Life ..... 1
History Elective ..... 3
Physical Education Elective ..... 1
Physical Science Elective ..... 3.5
Total ..... 32.5
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
Total ..... 34.5
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 Financial Management of the Firm ..... 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
Total ..... 30
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 ..... 17
Total ..... 31
Required cognate:
GMTH-1040 Calculus for Business ..... 3
(Satisfies mathematics for General Education Requirements)*Capstone Course
Management Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 49-57
Management Major Requirements ..... 59
Required Cognate ..... 3
Electives ..... 9-17
Total (minimum, not including proficiency) ..... 128

## Management Information Systems

The management 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 65 semester hours including: Business Administration Core ..... 41
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 Financial Management of the Firm .....  3
MGMT-3500 Principles of Organization and Management ..... 3
*MGMT-4510 Administrative Policy and Strategy ..... 3
MIS-1500 Information Management in a Dynamic World .....  2
MIS-1510 Software Tools for Business ..... 1
MRKT-3600 Principles of Marketing ..... 3
Management Information Systems ..... 24
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
MIS Electives (choose from the following) ..... 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 Programing Languages ..... 3
Required cognate:GMTH-1040 Calculus for Business3
(Satisfies mathematics for General Education Requirements)
*Capstone Course
Management Information Systems Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 49-57
Management Information Systems Major Requirements ..... 65
Required Cognate .....  3
Electives ..... 3-11
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education

 Requirements is found on page 18Suggested Four-Year Curriculum for a Major in Management 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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
PEF-1990 Physical Activity and the Christian Life ..... 1
Humanities Elective ..... 3
Physical Education Elective ..... 1
Social Science Elective ..... 32
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
Total ..... 34.5
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 Financial Management of the Firm ..... 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
Total ..... 33
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
MISElectives ..... 6
Physical Science Elective ..... 3.5
Electives ..... 11
Total ..... 28.5
MarketingThe marketing major prepares students for career opportuni-ties in advertising, marketing management, marketing researchand sales with retailers, manufacturers, financial institutions,and nonprofit organizations.
Course requirements involve 59 semester hours including:
Business Administration Core. ..... 41
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 Financial Management of the Firm ..... 3
MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3
MIS-1500 Information Management in a Dynamic World 2
MIS-1510 Software Tools for Business .....
MRKT-3600 Principles of Marketing ..... 3
Marketing ..... 18
MRKT-3630 Marketing Research ..... 3
MRKT-3650 Buyer Behavior ..... 3
MRKT-4610 Marketing Strategy ..... 3
Marketing Electives ..... 9
Required cognate:
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 ..... 59
Required Cognate ..... 3
Electives ..... 9-17
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education Requirements is found on page 18 <br> 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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business .....  1
PEF-1990 Physical Activity and the Christian Life ..... 1
History Elective ..... 3
Physical Education Elective ..... 1
Physical Science Elective ..... 3.5
Total ..... 32.5
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
Total ..... 34.5
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 Financial Management of the Firm ..... 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
Total ..... 30
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 ..... 17
Total ..... 31

## Business Administration

## Minors

The minors offered by the Department of Business Administration are designed to provide a basic understanding of specific aspects of business.

The minor in business administration for the nonbusiness 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
*Business Administration Core Elective ..... 6
*Select from the following 2000-3000 Level Business
Administration Core courses:
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 Financial Management of the Firm ..... 3
The minor in Christian ministries management for the
nonbusiness major involves 18 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 Management in a Dynamic World ..... 2
MIS-1510 Software Tools for Business ..... 1
MRKT-3680 Nonprofit Marketing ..... 3
The minor in economics involves 18 semester hours including:
3
ECON-2330 Microeconomics3
ECON-3310 International Money and Capital Markets ..... 3
ECON-3350 Comparative Economic Systems ..... 3
3000- or 4000-Level Electives in Economics ..... 6
The minor in international business for the business majorinvolves 18 semester hours including:
3
BUS-3910 International Business
At least 9 hours from: ..... 3
ECON-3360 International Trade and Economics ..... 3
MGMT-3570 International Management ..... 3
MRKT-4620 International Marketing ..... 3
At least 3 hours from:
ANTH-1800 Cultural Anthropology ..... 3
BEPH-2260 Religion and Culture ..... 3
COM-3140 Intercultural Communication ..... 3
POLS-3650 International Relations ..... 3
Additional Elective selected from courses listed above ..... 3
The minor in international business for the nonbusiness
major involves 21 semester hours including:
BUS-3910 International Business ..... 3
At least 6 hours from:
ECON-2330 Microeconomics ..... 3
ECON-2340 Macroeconomics ..... 3
MGMT-3500 Principles of Organization and Management .....  3
MRKT-3600 Principles of Marketing ..... 3
At least 6 hours from:
ECON-3350 Comparative Economic Systems ..... 3
ECON-3360 International Trade and Economics ..... 3
MGMT-3570 International Management ..... 3
MRKT-4620 International Marketing ..... 3
Additional Electives selected from courses listed above ..... 6
The minor in management information systems involves 21semester hours including:
ACCT-2110 Principles of Accounting 1 ..... 3
MGMT-3500 Principles of Organization and Mgmt ..... 3
MIS-1500 Information Management ..... 2
MIS-1510 Software Tools for Business ..... 1
MIS-2200 Fundamentals of MIS ..... 3
MIS-2300 Introduction to Programming ..... 3
MIS-3100 Database Design ..... 3
MIS-3800 System Analysis and Design ..... 3


The Cedarville University Students In Free Enterprise (SIFE) team is committed to providing educational opportunities through hands-on, community-based projects that teach individuals the principles of entrepreneurship, market economics, personal financial success skills and business ethics.

## Course Descriptions

## Accounting

ACCT-2110 Principles of Accounting I
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
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 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
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 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 Management in a Dynamic World; junior status.
ACCT-3170 Managerial Accounting
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

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

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
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 3 hours Accounting and reporting principles, standards, and procedures applicable to nonprofit organizations. Prerequisite: ACCT3120
Intermediate Financial Accounting II; or permission of instructor.
ACCT-4170 Advanced Managerial Accounting
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 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

3 hours
An examination of the tax provisions governing C Corporations, corporations, partnerships, and estates. Analyzes international and multi-state taxation of corporations. Prerequisite: ACCT4110 Federal Income Taxes.

## ACCT-4810 Seminar in Accounting

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

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
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
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

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

A study of the legal business law environment, contracts, sales, bailments, and property.
BUS-3150 Operations Analysis 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 3 hours
A study of employee law, negotiable instruments, agency, partnership corporations, insurance, and will. Prerequisite: BUS2180 Business Law I.

## BUS-3280

3 hours

## Entrepreneurship and Service Practicum

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

1-3 hours

## Independent Study in Business Administration

Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing.
BUS-3410 Topics in Business
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-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
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

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 Business Ethics and Social Responsibility 2 hours 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

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
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
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
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 International Money and Capital Markets 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.
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
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

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

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

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
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)


Through the Integrated Business Core, students learn from direct involvement in starting and running a business. Profits earned through group projects are donated to local community organizations and charities.

## Business Administration

School of Social Sciences and Professional Studies

## End-User Information Systems

## EUIS-1000

## Word Processing Concepts and Applications

Designed to develop a working knowledge of word processing software and hardware components and to apply these concepts to various software applications. The student will create, format, edit, store, retrieve, and print different types of documents as well as apply advanced features of the software to expand basic documents. Also an overview of the current operating system.
EUIS-1010
3 hours

## Presentation Graphics Concepts and Applications

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
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
3 hours
A study of the current principles and practices of establishing a lifetime program of personal money management. Topics include the economy; theories of work and income; preparation of financial goals, budgets, and reports; relevant biblical passages for giving; principles and practices of purchasing food, clothing, transportation, recreation, vacations, housing, and home furnishings; insurance for homes, autos, health, and life, and investments in the money market, bonds, stocks, mutual funds, real estate, precious metals, and collectibles. Credit, borrowing, making money grow, retirement, social security, estate planning, and income taxes are also studied. (Credit not applicable to meet business elective requirements.) FIN-2730 Church Business Administration

3 hours
A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.)
FIN-3310 International Money and Capital Markets 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 Financial Management of the Firm
3 hours
A study of the practical and theoretical aspects of financial decision making. Topics include cost of capital, capital structure, management of current assets, capital budgeting, sources of funds, and statement analysis. Prerequisites: ACCT-2110 Principles of Accounting I; BUS-2120 Statistics II.

## FIN-3730 Investments

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 Financial Management of the Firm

FIN-3770
Security Analysis and Portfolio Management
The theory and practice of security analysis techniques and portfolio management objectives. Prerequisite: FIN-3730 Investments
FIN-4700 Seminar in Finance 1 hour
A forum to discuss contemporary topics and issues in finance and provide guidance in areas of student career interest. Prerequisites: ACCT-3120 Intermediate Financial Accounting II; FIN-3310 International Money and Capital Markets; FIN-3710 Financial Management of the Firm; FIN-3730 Investments. FIN-4750 Financial Institution Administration

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 Financial Management of the Firm. (Fee: \$20)

## FIN-4770 Advanced Financial Management

 3 hoursAn 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 Financial Management of the Firm; ACCT 3110 Intermediate Financial Accounting I.
FIN-4790 Case Problems in Financial Management 3 hours
Case study of financial management in business enterprises. Planning current and long-term financial needs, profit planning, funds allocation, dividend policy, expansion, and combination. Prerequisite: FIN-4770 Advanced Financial Management.

## Management

## MGMT-3500

3 hours
Principles of Organization and Management
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 Small Business Management

3 hours
A course dealing with the program involved in establishing and managing a small business. Financial organization, services and problems are analyzed. Prerequisites: ACCT-2120 Principles of Accounting II; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.

## MGMT-3520 Production and Operations Management 3 hours

 Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem-solving and decision-making skills for application 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. Prerequisite: 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 3 hours
An analysis of the principal 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-3540 Management Science
An introduction to linear programming, transportation and assignment problems, network flow problems, and inventory systems. The linear programming, transportation and assignment, network flow, and inventory models are solved and their use demonstrated by various applications. Prerequisite: BUS3150 Operations Analysis.

MGMT-3550 Organizational Behavior
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-3570 International Management
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 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 Financial Management of the Firm; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.
MGMT-4520 Purchasing and Materials Management 3 hours Examination of the basic purchasing principles including the determination of price, quality, and delivery times of materials. Effective management of suppliers through their selection and certification will be matched with strategic production policies such as inventory control and production scheduling. Prerequisites: BUS-2120 Statistics II; MGMT-3500 Principles of Organization and Management.

## MGMT-4530 Industrial Relations Management 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 3 hours
This is an advanced course about managing people and organizations at the dawn of the 21st century. The intended audience is 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 3 hours This course focuses on the theories, concepts, processes, and tools of leading successful organizational change. Such changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels. This course focuses on 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 Topics in Operations Management

This course is designed to expand on critical topics in the field of operations management. This course provides an in-depth understanding of the operations management strategy and tools and provides in-depth coverage of contemporary operations management topics such as "Lean" techniques and valuestream mapping not covered in the basic operations management course. Prerequisite: MGMT-3520 Production and Operations Management or permission of instructor.

## Management Information Systems

## MIS-1500 <br> 2 hours

## Information Management in a Dynamic World

An overview of business information systems. The integration and application of computer hardware, software, procedures, systems, and human resources are explored. Personal, ethical, and biblical implications of the use of computers are considered.
MIS-1510 Software Tools for Business
1 hour
An overview of business information systems. The integration and application of computer hardware, software, procedures, systems and human resources are explored. Personal, ethical, and biblical implications of the use of computers are considered.
MIS-2200 Fundamentals of MIS
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 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

3 hours Introduction to application program development in a database environment with an emphasis on loading, modifying, and querying the database using a host language (COBOL). Discussion and application of data structures, indexed and direct file organizations, and models of data including hierarchical, network, and relational. Prerequisite: MIS-2200 Fundamentals of MIS. (Fee: \$20)

## MIS-3300

3 hours

## Advanced Topics in Programming Languages

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 3 hours A study of the basic concepts of data and voice communications and current networking technology. Discussion of physicallayer 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

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 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

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

## 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 <br> 3 hours

This course is the capstone course for the MIS major. It is a practicum in which students have the opportunity to 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. While the specifics of each project are determined by the end-user/customer, these projects usually encompass aspects of system analysis, user-interface design, database development, web development, end-user training, documentation, and presentation to customers. Prerequisites: MIS 3500-Web Development; MIS-3800 System Analysis and Design

## Marketing

## MRKT-3600 Principles of Marketing

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

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

Role of mark rearch 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

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 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
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: MRKT3600 Principles of Marketing.

## MRKT-3680 Nonprofit Marketing

 3 hoursDesigned 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

Designed to act as an introduction to the field of serviceoriented business concerns and their subsequent marketing. MRKT-4610 Marketing Strategy 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 <br> 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.

The business department seeks to develop students who understand technology and are competent using the software tools that are expected in today's competitive business environment.

## Purpose Statement

The Department of Communication Arts seeks to offer an education in communication consistent with biblical truth. Communication is an essential part of the world as God made it. The Department of Communication Arts recognizes the importance of understanding the theory as well as the practice of effective and edifying conversation. Contemporary issues and theories are presented and discussed in the perspective of Scripture. The department has developed these global objectives to achieve its purpose:

- To develop skills in critical thinking, academic research, and scholarly writing.
- To encourage a biblical understanding of ethics in communication.
- To identify implications of communication theory.
- To provide opportunities for students to practice skills of communication.
- To foster an understanding of the central role of electronic media communication in contemporary culture.
- To encourage an appreciation for theatre as a source of personal expression, societal analysis, aesthetic enjoyment, and career preparation.
- To equip the student with skills vital for communication success in vocational and/or avocational endeavors.
- To prepare students for graduate school.


## Personal Requirements

Communication arts students tend to be "people" persons with a willingness to work in public forums. Typically, communication students have a wide range of abilities and interests with a willingness to explore multiple career options.

## Department Requirements

Majors are required to complete a senior capstone project of 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 theatre 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 Arts
- Electronic Media
- Theatre


## Minors

- Comprehensive Communication
- Electronic Media
- Organizational Communication
- Theatre


## Co-Curricular Opportunities

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.

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, Professor Rebecca Sietman.
Drama Each semester the Communication Arts Department presents a major theatrical production. In recent years the department has produced All My Sons, The Pirates of Penzance, Lost in Yonkers, Wait Until Dark, and A Midsummer Night's Dream. Performances are often sold out and always greatly appreciated by the university family as well as many community guests.

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. Cedarville is the current state champion of Ohio and the national champion among Christian colleges and universities. Contact Professor Matthew Moore for audition information. Limited scholarships are available.
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.
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.

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.

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. Cedarville's graduates with a communication arts major have excelled in careers such as public relations, personnel management, communication consulting, media communications, and corporate executive training. Students are well-equipped to pursue graduate studies in fields such as law, theology, and business.
Students who choose to major in electronic media will receive excellent training for careers such as audio and video production, station management, journalism, website design and management, graphic design, and digital media production. Cedarville's theatre program prepares students for a career in any aspect of professional theatre, including acting, directing, theater design/technology, and theatre management.

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
- Seminar leader
- Sports announcer
- Theatre director


## Faculty

Charles W. Elliott, Chairman: Professor of Communication Arts. Professional Member: Asian Mass Communication Research \& Information Centre; Assoc'n for Education in Journalism \& Mass Communication; Chinese Communication Assoc'n; Pacific \& Asian Communication Assoc'n. 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. Director of Electronic Media program; experienced newscaster; researcher in interactive media. 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. Member of Springfield Arts Council; Licensed Speech Pathologist; experienced actress and director. 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, Member of the United States Institute of Theatre Technology; member of Christians in Theatre; experienced scenic, costume, and lighting designer. 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, Assistant 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. Popular conference speaker. 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, Assistant 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. Advisor of U99.5; experienced broadcaster. 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, Associate Professor of Communication Arts. Professional dramaturg and arts administration consultant. Advisor of Alpha Beta Phi, the university chapter of the national theatre honor society. Active member of Society of Stage Directors and Choreographers, Association for Theatre in Higher Education, Literary Managers and Dramaturgs of the Americas, and Ohio Theatre Alliance. 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 1986.
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, Assistant Professor of Communication Arts. Advisor for the student chapter of the Society for Human Resource Management. 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. Former president, Speech Communication Association of Ohio; Village of Cedarville mayor; experienced sportscaster. Education: B.A., Cedarville University, 1968; M.A., The Ohio State University, 1970; Ph.D., The Ohio State University, 1975. At Cedarville since 1968.

David H. Robey, Professor of Communication Arts. Director of Theatre; experienced actor; professional speaker; communications consultant. Education: B.A., Pillsbury Bible College, 1970; M.A., Bob Jones University, 1972; graduate study, Tennessee Temple University, 1974; Ph.D., Union Graduate School, 1989. At Cedarville since 1981.
Rebecca M. Sietman, Instructor of Communication Arts. Debate Coach. Education: B.A., Cedarville University, 1999; M.A., The Ohio State University, 2002. Completing work on Ph.D., The Ohio State University, scheduled to graduate June 2005. At Cedarville since 2003.
Margaret S. Wheeler, Assistant Professor of Communication Arts. Coordinator of Fundamentals of Speech Program. 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.

Steven W. Wood, Assistant Technical Director/Production Manager. Education: B.S., Baptist Bible College, 1998; M.A., Bowling Green State University, 2001. At Cedarville since 2001.
David G. Bastress, Electronic Media Technician. Education: Practical Bible Training School, 1970; John Brown University, 1980. Ten years as engineer, manufacturing communication antennas; 13 years chief engineer for several radio stations including WEEC-FM [100.7] in Springfield, WFCJ-FM [93.7] in Dayton, KUOA/KMCK in Siloam Springs, AK, and WIVV in Vieques, Puerto Rico. Responsibilities include installation, maintenance, \& repair of audio \& video equipment used by the department and the campus radio station. At Cedarville since 2002.

## Communication Arts

School of Humanities, Fine Arts, and Bible

## Communication Studies

The communication arts 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 undergraduate preparation for those planning additional graduate professional training such as law, theology, and business.

Graduating seniors in communication arts culminate their programs with an individualized senior project under the direction of a faculty mentor. This project involves either a senior recital or a senior thesis. The senior recital emphasizes the performance training in areas of acting, oral interpretation, and public speaking and results in a public performance. The senior thesis emphasizes research and writing and results in a public presentation.
Course requirements involve 44 semester hours, including 20 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 17 hours in specific courses are required if the student performs a recital.
Core requirements ..... 19-20
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-2220 Research in Communication ..... 2
COM-3100 Advanced Public Speaking ..... 3
COM-3240 Interpersonal Communication ..... 2
One of the following:
*COM-4820 Senior Research Project ..... 2
COM-4840 Senior Project in Theatre Performance ..... 3
The following electives are required as senior recital prerequisites for Senior Project in Theatre Performance . 16 ..... 16
THTR-1230 Voice and Diction ..... 2
THTR-1410 Introduction to Theatre ..... 3
THTR-1430 Stage Movement ..... 2
THTR-2350 Principles of Play Directing ..... 3
THTR-2410 Fundamentals of Oral Interpretation .....  3
THTR-2430 Principles of Acting ..... 3
*Capstone Course
Concentrations
Students should select a concentration by the end of the sophomore year from the following:

- Comprehensive Communication
- Media Communication
- Organizational Communication
- Public Communication
- Rhetorical Communication
Concentration requirements may be adjusted to the needs ofindividual students with the written permission of the departmentchairman.
Comprehensive communication concentration 24
COM-4110 History of Public Address ..... 3
COM-4120 Contemporary Rhetoric ..... 2
COM-4810 Research Pre-Seminar ..... 1
COM-4830 Research Post Seminar ..... 0
Electives ..... 18
Electives may be selected from courses within the departmentor from other departments to meet the specific life goals of thestudent, and must be approved by the department chairman andthe student's advisor.
Media communication concentration ..... 25
COM-3120 Argumentation and Debate ..... 3
COM-3140 Intercultural Communication ..... 3
(or COM-3150 Women in America ..... 3)
COM-4060 Organizational Leadership ..... 3
COM-4810 Research Pre-Seminar ..... 1
COM-4830 Research Post-Seminar. ..... 0
Electives selected from the following: ..... 15
COM-2320 Theories of Mass Media ..... 3
COM-3220 Visual Communication ..... 3
COM-3840 Media Criticism ..... 3
COM-4640 Special Topics ..... 2-3
COM-4900 Internship in Communication* ..... 3
ENG-2210 Principles of Journalism ..... 3
ENG-3110 Style and Mechanics for Writers ..... 2
ENG-3620 Practicum in Journalism ..... 1
EMTC-3350 Documentary Films ..... 2
*Only 3 credit hours of internship may count toward this concentration
Organizational communication concentration ..... 24
COM-3230 Organizational Communication ..... 3
COM-3250 Interviewing ..... 3
COM-3330 Organizational Training ..... 3
COM-4060 Organizational Leadership ..... 3
COM-4810 Research Pre-Seminar ..... 1
COM-4830 Research Post-Seminar ..... 0
MGMT-3500 Principles of Organization and Management. ..... 3
MGMT-3530 Human Resources Management ..... 3
Electives selected from the following: ..... 5
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
Public communication concentration ..... 24
COM-3120 Argumentation and Debate ..... 3
COM-3140 Intercultural Communication ..... 3
(or COM-3150 Women in America ..... 3)
COM-4810 Research Pre-Seminar ..... 1
COM-4830 Research Post-Seminar. ..... 0
Electives selected from the following: ..... 17
COM-3220 Visual Communication ..... 3
COM-3500 Storytelling ..... 3
COM 3820 Political Communication ..... 2
COM-4060 Organizational Leadership ..... 3
COM-4110 History of Public Address ..... 3
COM-4120 Contemporary Rhetoric ..... 2
COM-4610 Communication Ethics ..... 2
COM-4640 Special Topics ..... 2-3
COM-4900 Internship in Communication* ..... 3
POLS-2610 American National Government ..... 3
POLS-2620 American State and Local Government ..... 3
POLS-3620 The Supreme Court ..... 3
*Only 3 credit hours of internship may count toward this concentration
Rhetorical communication concentration24
BEPH-2200 Introduction to Philosophy ..... 3
COM-3120 Argumentation and Debate ..... 3
COM-3130 Rhetorical Criticism ..... 2
COM-4110 History of Public Address ..... 3
COM-4120 Contemporary Rhetoric ..... 2
COM-4810 Research Pre-Seminar ..... 1
COM-4830 Research Post-Seminar ..... 0
Electives selected from the following: ..... 10
BEPH-2240 Logic ..... 3
BEPH-2250 Ethics ..... 3
BEPH-3240 Epistemology ..... 3
BEPH-3330 19th Century Philosophy .....  3
COM-3220 Visual Communication ..... 3
COM-4610 Communication Ethics ..... 2
COM-4640 Special Topics ..... 2-3
COM-4900 Internship in Communication* ..... 3
POLS-2610 American National Government ..... 3
*Only 3 credit hours of internship may count toward this concentration.
Communication Arts Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 49-60
Communication Arts Major Requirements ..... 44
Electives ..... 24-35
Total (minimum, not including proficiency) ..... 128


The Forensics team competes in areas such as public speaking, oral interpretations, limited preparation events, and Lincoln-Douglas debate.

## A complete description of the General Education

 Requirements is found on page 18
## Suggested Four-Year Curriculum for a Major in Communication Arts

First year:
BEGE-1710 Christian Life and Thought ..... 3
BEGE-1720 Spiritual Formation ..... 3
COM-1000 Introduction to Communication Arts ..... 2
COM-1100 Fundamentals of Speech ..... 3
COM-2200 Communication in Applied Contexts ..... 2
ENG-1400 Composition ..... 3
GSS-1000 Foundations of Social Science ..... 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
Total ..... 33.5
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 ..... 2
Communication Arts Major Concentration Courses ..... 9
Physical Science Elective ..... 3.5
Quantitative Elective ..... 3
Social Science/Global Awareness Elective ..... 3
Total ..... 32.5
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 ..... 9
Electives ..... 12
Total ..... 31
Fourth year:
COM-4110 History of Public Address ..... 3
(or another Humanities elective ..... 3)
COM-4820 Senior Research Project ..... 2
(or COM-4840 Senior Project: Recital ..... 3)
COM-4830 Research Post-Seminar ..... 0
Communication Arts Major Concentration Courses ..... 7
Electives ..... 19
Total ..... 31

## Communication Arts

## 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 49 semester hours-28 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 nonbroadcast audio), video production (television and nonbroadcast video), management/sales (covering the business side of the field), and interactive media (online and computerbased media).
Internships are strongly recommended but are dependent upon availability and placement.
Core Requirements
28
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
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
Select one of the following courses, with approval of faculty:
*EMTC-4920 Senior Project................................................ 3
EMTC-4930 Electronic Media Internship .......................3-12
*Capstone Course
Interactive media concentration .............................................. 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
Practica-three hours selected from the following:
EMTC-3761 Interactive Media Practicum (repeatable) ..... 1
EMTC-3765 Animation practicum (repeatable) ................ 1
Video concentration ..... 21
COM-3220 Visual Communication ..... 3
EMTC-1210 Media Performance ..... 3
EMTC-2610 Preproduction Planning ..... 3
EMTC-3310 Advanced Video Production ..... 3
*Practica-three hours selected from the following: ..... 3
EMTC-3731 Video Production Practicum (repeatable) .....  1
EMTC-3732 Directing Practicum (repeatable) .....  1
EMTC-3733 Sports Production Practicum (repeatable)... 1Electives selected from the following:6
EMTC-2310 Introduction to Photography ..... 2
EMTC-3330 Screenwriting .....  2
EMTC-3350 Documentary Film .....  2
EMTC-3360 Documentary Film-style Production I ..... 2
EMTC-3370 Documentary Film-style Production II ..... 2
EMTC-3410 Electronic Media Sales .....  3
EMTC-4310 Film-Style Production ..... 2

* Students may add up to 2 additional practica hours.
Audio concentration ..... 21
EMTC-1210 Media Performance ..... 3
EMTC-3210 Advanced Audio Production ..... 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
Management/Sales concentration ..... 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
Electronic Media Major Curriculum SummaryProficiency Requirements0-5
General Education Requirements ..... 52-60
Electronic Media Major Requirements ..... 49
Electives ..... 19-27
Total (minimum, not including proficiency) ..... 128


## 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:
Jay Benson, Sales Manager, WHIZ Media Group, Zanesville, OH
Dan Craig, General Manager, WRFD, Columbus, OH
Bill DeWees, General Manager/Professor, WONU, Bourbonnais, IL
Bob Lepine, Vice President of Broadcasting, Family Life Today, Little Rock, AR
Dusty Rhodes, Chief Operating Office, WAY-FM Media Group, Colorado Springs, CO
Rod Robinson, Vice President for Development, Family Life Radio, Tucson, AZ
Dave Samuel, Audio Services Director, Focus on the Family, Colorado Springs, CO
Josh Snyder, Recording Industry Consultant, Bellevue, WA
Linnae Young, Salem Radio Reps, Bartlett, IL
*Organizational affiliation cited for identification only

A complete description of the General Education Requirements is found on page 18

| Suggested Four-Year Curriculum for a Major in Electronic Media |  |
| :---: | :---: |
| First year: | Third year: |
| BEGE-1710 Christian Life and Thought ...................................... 3 | BEGE-3750 Christian Worldview Development ........................... 2 |
| BEGE-1720 Spiritual Formation ................................................ 3 | BEGE-3760 Christian Worldview Integration .............................. 2 |
| COM-1000 Introduction to Communication Arts .................................. 2 | EMTC-3111 Survey Research for Electronic Media ..................... 3 |
| COM-1100 Fundamentals of Speech ......................................... 3 | (or EMTC-3112 Content Research for Electronic Media .............. 3) |
| EMTC-1110 Introduction to Electronic Media .............................. 3 | EMTC-3150 Electronic Media Ethics .......................................... 2 |
| EMTC-1120 Audio Production .................................................. 3 | EMTC-3151 Christian Approaches to Electronic Media ................. 2 |
| ENG-1400 Composition ........................................................... 3 | EMTC-XXXXPractica ............................................................. 2 |
| GSS-1000 Foundations of Social Science ......................................... 3 | EMTC-XXXX Concentration Requirements and Electives ............... 7 |
| HUM-1400 Introduction to the Humanities ................................... 3 | Social Science/Global Awareness Elective ................................ 3 |
| PEF-1990 Physical Activity and the Christian Life...................................... 1 | Electives ............................................................................ 7 |
| Biological Science Elective .................................................... 3.5 | Total ................................................................................ 30 |
| History Elective .................................................................... 3 |  |
| Total .......................................................................................................................... 33.5 | Fourth year: |
|  | EMTC-4110 Electronic Media Law and Regulation ....................... 3 |
| Second year: | EMTC-4810 Senior Seminar .................................................... 1 |
| BEGE-2730 Old Testament Literature ........................................ 3 | EMTC-4920 Senior Project ..................................................... 3 |
| BEGE-2740 New Testament Literature ...................................... 3 | (or EMTC-4930 Electronic Media Internship ........................... 3-12) |
| EMTC-2110 Video Technical Training ........................................ 3 | Concentration Requirement or Elective ...................................... 2 |
| EMTC-2130 Writing for Electronic Media .................................... 3 | EMTC-XXXXPracticum ........................................................... 1 |
| EMTC-XXXX Concentration Requirements and Electives .................. 9 | Humanities Elective ............................................................... 3 |
| Literature Elective ................................................................. 3 | Electives ....................................................................... 11-20 |
| Physical Education Activity Elective ......................................... 1 | Total ................................................................................ 33 |
| Physical Science Elective .................................................... 3.5 |  |
| Quantitative Elective ............................................................. 3 |  |
| Total .............................................................................. 31.5 |  |



Real-life field assignments provide multimedia and broadcasting students with valuable knowledge and experience.

## Communication Arts

School of Humanities, Fine Arts, and Bible

## Theatre

The theatre major is a comprehensive major providing training in acting, directing, theatre design/technology, and theatre history/dramaturgy. The program places special emphasis upon 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 55 semester hours.
Core requirements ..... 50
THTR-1230 Voice and Diction ..... 2
THTR-1410 Introduction to Theatre ..... 3
THTR-1420 Introduction to Technical Theatre .....  3
THTR-1430 Stage Movement ..... 2
THTR-1460 Theatre Participation ..... 1
THTR-1480 Play Production ..... 3
THTR-2130 Dramatic Literature ..... 3
THTR-2350 Principles of Play Directing ..... 3
THTR-2400 Stagecraft
( 1 credit hour for 2 semesters within the first year) ..... 2
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-3510 Advanced Directing .....  3
(or THTR-3460 Advanced Acting ..... 3)
THTR-3630 Production of Religious Drama ..... 2
THTR-4400 Professional Preparation Seminar. ..... 3
*THTR-4840 Senior Theatre Project ..... 3
Theatre Major Electives: ..... 5
Students should select one course in an art form other thantheatre and other electives according to the student's theatreinterest, as approved by the student's advisor.
*Capstone Course
Theatre Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 49-57
Theatre Major Requirements ..... 55
Electives ..... 16-24
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education

 Requirements is found on page 18Suggested Four-Year Curriculum for a

            Major in Theatre
    First year:
BEGE-1710 Christian Life and Thought ..... 3
BEGE-1720 Spiritual Formation ..... 3
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
THTR-1230 Voice and Diction ..... 2
THTR-1410 Introduction to Theatre ..... 3
THTR-1420 Introduction to Technical Theatre ..... 3
THTR-1430 Stage Movement ..... 2
THTR-2400 Stagecraft .....  1
Biology Elective ..... 3.5
History Elective ..... 3
Physical Education Activity Elective ..... 1
Total ..... 34.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
GSS-1000 Foundations of Social Science ..... 3
LIT-2340 Western Literature ..... 3
THTR-1460 Theatre Participation .....  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 ..... 3
THTR-2430 Principles of Acting ..... 3
Total ..... 32
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
THTR-2450 Scenic Design ..... 3
THTR-3420 Theatre History ..... 3
THTR-3470 Dramaturgy ..... 3
THTR-3510 Advanced Directing ..... 3
(or THTR-3460 Advanced Acting ..... 3)
THTR-3630 Production of Religious Drama. .....  2
Physical Science Elective ..... 3.5
Quantitative Elective ..... 3
Electives ..... 3
Total ..... 27.5
Fourth year:
THTR-4400 Professional Preparation Seminar ..... 3
THTR-4840 Senior Theatre Project ..... 3
Social Science/Global Awareness Elective ..... 3
Theatre Major Electives .....  4
Electives ..... 21
Total ..... 34

# Communication Arts School of Humanities, Fine Arts, and Bible 

## Minors

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
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
Research (Select one of the following courses):
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
Course requirements for the minor in organizational communications involve 16 semester hours selected from thefollowing courses:COM-1000 Introduction to Communication Arts2
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
Course requirements for the minor in theatre involve 16 semester hours selected from the following courses:
THTR-1230 Voice and Diction ..... 2
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


Theatre students express their creative talents and abilities in drama productions such as Arthur Miller's "All My Sons" shown above.

## Course Descriptions

## Communication Arts Courses

COM-1000

## Introduction to Communication Arts-Fa,Sp

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
This course will expose the student to and prepare the student for competition in the three general areas of intercollegiate forensic competition: oral interpretation (prose, poetry, dramaticduo), public speaking (persuasion, informative, communication analysis), and limited preparation events (impromptu and extemporaneous speaking). Prerequisites. Audition; permission of instructor.
COM-1230 Voice and Diction-Sp
2 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 <br> 3 hours

Methods of applying contemporary communication theories on attitudes, involvement, and change are 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. The student is given background in the rhetorical criticism of logical, emotional, and ethical proofs. Interpersonal communication problems, methods, and theories are considered.
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-2200 Communication in Applied Contexts-Fa,Sp 2 hours
This course provides students with an opportunity to develop their speaking skills beyond Fundamentals of Speech. The course will emphasize the use of technology, the 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-Sp 2 hours
A survey of research methodologies commonly employed by communication researchers. Laboratory hour introduces library search techniques and participation in on-going research projects.
COM-2230 Group Discussion-Sp
2 hours
Group interaction and principles of directing effective groups are studied in an attempt to develop individual understanding of group processes. Emphasis on the different aims of discussion situations.

## COM-2300 Voices of Diversity-Fa,Sp

3 hours
An examination and critical analysis of the significant contributions of, 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 and may include works from theatre, film, fiction, non-fiction, poetry, essays, and the visual arts. Field trips and guest performers/speakers will be incorporated, dependent upon availability.

## COM-2320 Theories of Mass Media-Sp <br> 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.
Focuses on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable to six hours.
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
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. Criticial thinking, writing skills emphasized. Seminar format. COM-3140 Intercultural Communication-Fa, $\mathrm{Sp} \quad 3$ hours Focuses on the way communication functions in intercultural settings and the way culture affects communication. Words and actions of Christ, the Messiah, are employed as a point of reference for identifying "Christian" culture.
COM-3150 Women in America-Fa
3 hours
Surveys the unique voice of women in the U.S. during the 20th century. Students will read works that discuss contemporary issues concerning women and will analyze them from the perspective of a Christian world-life view.
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 of the usage of communication for the organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. In addition, the course focuses on the role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context.
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 interview-

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ing situations, including informational, employment, and persuasive interviews.
COM-3260 Organizational Negotiation-Sp
3 hours
Focuses on communication and the negotiation process in the organizational context. Includes coverage of selected negotiation theories, selected elements of the negotiation process, and selected negotiation formats (e.g. salary negotiations, budget negotiations, collective bargaining, etc.).
COM-3330 Organizational Training-Fa
3 hours
Effective organizational training programs must be properly planned, implemented, and managed. 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

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
2 hours

## Clinical Methods in Teaching Speech-Fa,Sp

Students seeking certification for teaching speech will gain classroom experience. One credit hour equals 20 classroom hours. Department staff members will supervise all assignments. Credit/no credit.
COM-3820 Political Communication-Sp
2 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-3840 Media Criticism-Sp

3 hours
Overviews the study and application of theories that analyze and critique news, entertainment, and film media. Several theories of media criticism will be presented, along with a Christian view of criticism. Students will produce critiques of various forms of media by both using the theories presented and integrating their Christian worldview into their analysis.


Students enhance their communication skills and abilities through dramatic performances and recitals.

## 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. Assigned reading and class processing of ideas and theories prepares the student for observation and evaluation of 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
2 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. The course seeks to integrate the study of political messages and the current political culture. Special attention will be given to arguments presented to the public. Prerequisite: COM-4110 History of Public Address or permission of instructor.

## COM-4600 Speech Seminar

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 through COM-4760 1 hour
Independent Study-Fa, Sp
COM-4710
1-3 hours
Independent Study-General Communication
COM-4720
1-3 hours
Independent Study-Organizational Communication
COM-4730 Independent Study-Oral Interpretation 1-3 hours
COM-4740 Independent Study-Drama 1-3 hours
COM-4750 Independent Study-Media 1-3 hours
COM-4760 Independent Study-Forensics 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
1 hour
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-4820 Senior Research Project-Fa
2 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
Senior students present research findings to beginning researchers. Senior students mentor beginning students.

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Beginning researchers employ library search techniques to prepare a research prospectus.

## COM-4840

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 desiring to fulfill their senior project requirement with a theatre performance must declare this to their communication arts advisor and the director of theatre before completing the sophomore year. Completion of prescribed courses in theatre is required for the theatre performance senior project. Platform examinations are required of all who wish to present a theatre performance for their senior Communications project and are included in THTR-2410 Fundamentals of Oral Interpretation and THTR-2430 Principles of Acting. These two courses must be taken before the end of the 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; THTR2410 Fundamentals of Oral Interpretation; 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 and other multimedia applications.
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-2606
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, and station and website ratings. Includes an introduction to academic research in electronic communication for secondary research and practice in primary research by media practitioners using survey methodologies. Prerequisite: EMTC-1110 Introduction to Electronic Media.

## EMTC-3112

## 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

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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
2 hours
A study of the framework for non-fiction film-style production.
Emphasis is placed on theory, pre-production planning, funding, writing, and interviewing unique to documentary programming. Students will select a topic and follow the project through to 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.
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: EMTC3360 Documentary Film-style Production I.
EMTC-3410 Electronic Media Sales-Fa
3 hours
The sales structure of media companies is explored.
Emphasis is given to conducting a customer needs analysis and developing sales presentations. Sales executives work with the class to develop technique, copywriting, 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 <br> 3 hours

This course applies the theory and principles of visual communication to screen design for multimedia production and television graphics. Emphasis is placed on designing for both NTSC and wide-screen HDTV aspect ratios. Students are also introduced to screen design for personal digital assistants. 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)


Working at U99.5, the University's student-operated radio station, provides students the opportunity to plan, program, and manage a real station.

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)

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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 webpage 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: EMTC3630 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.

## 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-Fa
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 <br> 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 for an independent study. 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

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 interested in an internship 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-Sp
2 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
Involves study of the history and development of theatre.
Dramatic literature is considered as 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 $\mathbf{3}$ 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. Classes will consist of studio sessions incorporating movement exercises which stress/correct use of the mechanical and anatomical components of human movement. Emphasis will be given to increased awareness of individual movement characteristics and the application of movement variations to character development. Students will learn Laban Effort-Shape, Alexander Technique, and various improvisational movement techniques.

## 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
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)

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## 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-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 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.
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: THTR1420 Introduction to Technical Theatre. (Fee \$60)

## THTR-2430 Principles of Acting-Fa,Sp

3 hours
Study in the principal theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored. THTR-2450 Scenic Design-Sp

3 hours
A theatre scenic design course which emphasizes the analysis and interpretation of the script, use of research material and techniques of presentation. Includes an introduction to the standard practices of drafting. Practicum and stage work required. Prerequisite: THTR-1420 Introduction to Technical Theatre. (Fee: \$55)
THTR-3420 Theatre History-Fa
3 hours
An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the preGreek 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-3440 Stage Costume History-Fa

A general survey of western costuming for the stage from preGrecian 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: \$25)

## 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
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

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-3610 Teaching Creative Dramatics-Fa,Sp 2 hours
For elementary and secondary education majors seeking a teaching license in speech. Acquaints students with creative dramatics and educational theatre productions for pre-K through grade 12. Includes role playing, improvisation, storytelling, theatre games, play therapy, pantomime, and drama production. Prerequisite: admission to teacher education program and/or major in communication arts. (Fee: \$25)
THTR-3630 Production of Religious Drama-Sp
2 hours
This course explores and provides training in the use of drama as a tool for religious education and corporate worship. A broad menu of dramatic venues is addressed: (e.g. traditional costumed plays, the use of reader's theatre, choric speaking, the combining of drama and music, and group and solo performances).
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 A course to prepare the senior theatre arts student for entry into the professional arts community and/or graduate study. Topics would include audition/portfolio preparation and presentation, resume writing, interviewing techniques, graduate study/ assistantship options, professional union affiliation, etc. (Fee: \$45)

## THTR-4640 Special Topics-Fa,Sp

3 hours
Topics of specialized theatrical interest are examined on an asneeded basis. Repeatable up to six credit hours.
THTR-4750 Independent Study: Theatre-Fa, Sp 1-2 hours
Independent study in a selected field for students with special interests and demonstrated ability. Repeatable up to eight credit 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)

## School of Social Sciences and Professional Studies

## Purpose Statement

The Department of Education seeks to prepare compassionate, professional educators 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 Ohio Department of Education.
- Each year approximately $10 \%$ of the senior education students pursue cross cultural student teaching experiences. Teaching under the supervision of experienced, certified teachers, they teach 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 firstyear 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

Program completers 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 2002-2003 reporting period was 102 . The demographic profile of program completers for the 2002-2003 reporting period is:

|  | Number | Percent |
| :--- | :---: | :---: |
| White | 102 | 100 |
| African American | 0 | 0.0 |
| Hispanic | 0 | 0.0 |
| Asian | 0 | 0.0 |
| Other | 0 | 0.0 |
| Male | 15 | 14.7 |
| Female | 87 | 85.3 |

## 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 Activities

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. Overall GPA of 2.7 and a grade of " $\mathrm{C}-$ " 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.
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, resumè, 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 student teaching 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:

- Reading/Language Arts - Science
- Mathematics • Social Studies

See appropriate department for a complete description of the following programs.
Adolescent and Young Adult (grades 7-12)
Department of Language and Literature: (page 118)
Integrated Language Arts Education
Department of Science and Mathematics: (page 160)
Integrated Science Education (Comprehensive)
Integrated Life Science Education
Integrated Physical Science Education
Integrated Physics Education
Integrated Chemistry Education
Integrated Mathematics Education
Department of History and Social Sciences: (page 186) Integrated Social Studies Education
Multi-Age Licensure (pre-K to grade 12)
Department of Exercise and Sport Science: (page 102) Health Education
Physical Education
Department of Music: (page 130)
Music Education
Department of Literature and Language: (page 118) Spanish Education

## 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.
Computer/Technology
Course requirements:
EDUC-2100 Technology in the Classroom . ..... 2
EDUC-3560 Practicum in Educational Technology ..... 3
MIS-1100 Introduction to Computers .....  1
MIS-1500 Information Mgmt in a Dynamic World ..... 2
MIS-1510 Information Mgmt Software Tools Lab. .....
MIS-2000 Structured Programming .....  3
MIS-2100 Modern Programming Tools. .....  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. .....
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
- 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: Assistant 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, Dean: School of Social Sciences and Professional Studies; 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, Associate 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.

## Education

## School of Social Sciences and Professional Studies

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.
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. Part time since 2003.

Timothy Heaton, Associate 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, Assistant 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., Oglethrope University, 1965; M.A., University of Georgia, 1972; Ed.D., Bob Jones Univerisity, 1992. At Cedarville since 2000.

Donald Meissner, Assistant Professor of Education. Education: B.A., Greenville College, 1968; M.S., University of Illinois, 1976; Ph.D., University of Southern Mississippi, 1988. At Cedarville since 2001.
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. candidate, George Mason University. At Cedarville since 1999.

Praxis II Pass Rate Data: Regular Teacher Preparation Program
Academic Year: 2002-2003 Testing Period: 7/02-6/03 Number of Program Completers: 102

| Type of Assessment | \# Taking <br> Praxis II | Ave. Pass <br> Rate (\%) | OH Pass <br> Score | OH Pass $^{\text {Rate (\%) }}{ }^{\text {I }}$ |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Professional Knowledge |  |  |  |  |  |
| Principles of Learning and Teaching: Grades K-6 | 4 | $*$ | 168 | $92 \%$ |  |
| Principles of Learning and Teaching: Grades 5-9 | 27 | $96 \%$ | 168 | $94 \%$ |  |
| Principles of Learning and Teaching: Grades 7-12 | 34 | $97 \%$ | 165 | $92 \%$ |  |

*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.
${ }_{2}$ The state passing rate is based on data collected from all Ohio individuals taking the Praxis II in 2001-2002, regardless of their status in a teacher education program.
2 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 <br> ${\text { Praxis } \text { II }^{3}}^{\|c\|}$ | \# Passing <br> Praxis II $^{4}$ | Institutional <br> Pass Rate (\%) | Ohio Pass <br> Rate (\%) |
| :--- | :---: | :---: | :---: | :---: |
| Aggregate-Professional knowledge | 65 | 63 | $97 \%$ | $93 \%$ |
| Aggregate- Academic Content Areas (Math, English, Biology, Etc.) | 107 | 104 | $97 \%$ | $95 \%$ |
| Aggregate-Teaching Special Populations (Special Ed., ELS, Etc.) | 5 | $*$ | $*$ | $99 \%$ |
| Summary Totals and Pass Rates ${ }^{\mathbf{5}}$ | $\mathbf{9 3}$ | $\mathbf{8 8}$ | $\mathbf{9 5 \%}$ | $\mathbf{9 2 \%}$ |

${ }_{4}^{3}$ Number of completers who took one or more tests in a category and within their area of specialization.
${ }_{5}^{4}$ Number who passed all tests they took in a category and within their area of specialization.
5 Summary Totals and Pass Rate: Number of completers 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 2002-2003 Academic Year

| Total number of students officially enrolled in teacher preparation, all specializations, in academic year 2002-2003 | 214 |
| :--- | :---: |
| Number of students in supervised student teaching in academic year 2002-2003 | 124 |
| Number of faculty members who supervised student teachers in 2002-2003 | 26 |
| Student teacher/faculty supervisor ratio* | $4.7 / 1^{*}$ |
| 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 |

[^3]General Education Requirements
for Education Majors
Early ChildhoodEducation(EC)
Middle Childhood Education (MC)
Special Education (SpE)
Biblical Education16
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
Communications ..... 6
COM-1100 Fundamentals of Speech ..... 3
ENG-1400 English Composition ..... 3
Humanities ..... 10-11
EDUC-2400 Children's Literature (EC, SpE) .....  2
(or COM-2300 Voices of Diversity (MC) ..... 3)
${ }^{1}$ EDUC-4500 Philosophy of Education ..... 2
HUM-1400 Introduction to the Humanities ..... 3
Literature Elective ..... 3
Science and Mathematics ..... 13-17
BIO-1000 Principles of Biology ..... 3.5
EDUC-1800 Principles of Mathematics I ..... 3
EDUC-2800 Principles of Mathematics II ..... 3
${ }^{2}$ GSCl-1010 Principles of Earth Science ..... 3.5
${ }^{2}$ GSCl-2010 Physical Science for Teachers ..... 4
Physical Education ..... 2
PEF-1990 Physical Activity and the Christian Life .....  1
Physical Education Activity Elective ..... 1
Social Science ..... 9
GSS-1000 Foundations of Social Science ..... 3
Global Geography Elective ..... 3
HIST-3750 Social Movements ..... 3
Foreign Language ..... 0-8
See the global awareness section of the General Education
Requirements.
${ }^{1}$ Taken concurrently with student teaching
${ }^{2}$ Middle Childhood and Special Education majors select either GSCI-1010or GSCI-2010.
Teacher Education Core
Required of all Teacher Education majors
Teacher Education Core ..... 12
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
(or EDMC-2500 Educational Psychology of MiddleChildhood*3)
*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:
Teacher Education Core (see previous column) ..... 12
Early Childhood Foundations ..... 13
EDEC-2100 Art, Music, \& Drama for Early Childhood . .....  2
EDSP-2500 Survey of Mental Retardation andDevelopmental Disabilities.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
Early Childhood Methods 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
Early Childhood Methods II ..... 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 Childhood3EDEC-4450 Early Childhood Clinical II 3
EDSP-4250 Communication, Collaboration, and InclusionSkills 2
Student Teaching ..... 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
Total (minimum, not including proficiency) ..... 129
Middle Childhood EducationThe middle childhood education major prepares students toteach upper elementary or middle school (grades 4 to 9 ).Students will prepare to teach in two of the four major curricu-lum areas: reading and language arts, mathematics, science,or social studies.
Course requirements involve 48 education semester hours plus 29-35 concentration area hours including:
Teacher Education Core (see previous column) ..... 12
Middle School Methods I ..... 12
EDMC-3500 Principles of Teaching for Middle Childhood ..... 3
EDMC-3600 Phonics/Structure Language ..... 3
EDMC-3700 Teaching Reading / Middle Child. Lit. ..... 3
EDMC-3950 Middle School Clinical .....  2
EDSP-4000 Principles of Inclusion. ..... 1
Middle School Methods II ..... 14
EDMC-4000 Reading in Content Area: Middle Childhood ..... 3
EDMC-4050 Responsive Schools for Middle Childhood ..... 3
EDMC-4440 Middle School Clinical II ..... 2
Two of the following based on concentration areas:
EDMC-3800 Writing Process and Language ArtsMethods for Middle School3
EDMC-4100 Teaching Math: Middle Childhood ..... 3
EDMC-4200 Teaching Science: Middle Childhood ..... 3
EDMC-4300 Teaching Soc. St.: Middle Childhood ..... 3
Student Teaching ..... 10-12
*EDMC-4900 Student Teaching and Seminar ..... 10-12
*Capstone Course
Concentration Areas (must choose two)
Mathematics ..... 24-27
EDMC-3300 Topics in Middle School Mathematics ..... 3
*EDMC-4100 Teaching Math: Middle Childhood ..... 3
*EDUC-1800 Principles of Math ..... 0-3
*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
Science ..... 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
One of the following Science Electives ..... 4
ESCI-2310 Introduction to Oceanography ..... 4
ESCI-2410 General Meteorology ..... 4
ESCI-2510 Introductory Astronomy ..... 4
Social Studies ..... 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-1000 Foundations of Social Science ..... 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 of the following: ..... 3
GEO-3510 World Regional Geography WestGEO-3520 World Regional Geography EastHIST-3200 History and Politics of Latin AmericaHIST-3210 History and Politics of East Asia
HIST-3220 History and Politics of the Middle EastHIST-3540 History and Politics of Africa35
${ }^{*} \mathrm{COM}-1100$ 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.*EDMC-3800 Writing Process and Language Arts*LIT-2300 Introduction to Literature 3
(or LIT-2340 Western Literature ..... 3)
LIT-2390 Survey of American Literature to 1900 ..... 3
Methods for Middle School ..... 3
THTR-3610 Teaching Creative Dramatics ..... 2
*course also satisfies a General Education Requirement or a professional education requirement
Middle Childhood Education Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 57-65
Middle Childhood Education Major Requirements ..... 48
Concentration Requirements ..... 29-39
Total (minimum not including proficiency) ..... 134-144
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 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 .....
ENG-1400 Composition ..... 3
GEO-3520 World Regional Geography: EastGSCI-1010 Principles of Earth Science3.5
GSS-1000 Foundations of Social Science ..... 3
PEF-1990 Physical Activity and the Christian Life .....  1
PYCH-2700 Child Development ..... 3
Literature Elective ..... 3
Total ..... 33
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 ..... 1EDSP-2500 Survey of Mental Retardation \& Dev. Disabilities
EDUC-1800 Principles of Mathematics I. ..... 1
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
Total ..... 35
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 ..... 4EDEC-3900 Field Experience in Early Childhood Education.
EDEC-3950 Early Childhood Clinical
EDSP-3100 Diagnostic and Remedial Reading3
EDUC-2500 Educational Psychology ..... 3
EDUC-2800 Principles of Mathematics II ..... 3
HUM-1400 Introduction to the Humanities .....  .3
Physical Education Activity Elective
32
Total ..... 32
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 ..... 3EDEC-4300 Teaching Social Studies: Early ChildhoodEDEC-4450 Early Childhood Clinical IIEDEC-4900 Student Teaching and Seminar (Early Childhood).10-12
EDSP-4250 Communication, Collaboration, and Inclusion .....  2
EDUC-4500 Philosophy of Education .....  2
Total ..... 29-31

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: | Third year: |
| BEGE-1710 Christian Life and Thought .......................................... 3 | BEGE-3750 Christian Worldview Development ................................ 2 |
| BEGE-1720 Spiritual Formation ..................................................... 3 | EDMC-3500 Principles of Teaching Middle School ........................... 3 |
| BIO-1000 Principles of Biology ................................................. 3.5 | EDMC-3600 Phonics and Structure of Language ............................. 3 |
| COM-1100 Fundamentals of Speech ............................................. 3 | EDMC-3700 Teaching Reading Middle Childhood Literature ............... 3 |
| EDUC-1000 The Education Profession ........................................... 1 | EDMC-3950 Middle School Clinical I ................................................ 2 |
| EDUC-1050 Contemporary Christian Schools ................................. 0 | EDSP-4000 Principles of Inclusion ................................................. 1 |
| EDUC-1800 Principles of Mathematics I .......................................... 3 | HIST-3750 Social Movements ........................................................ 3 |
| ENG-1400 Composition................................................................ 3 | Concentration Electives ......................................................... 15-21 |
| GSS-1000 Foundations of Social Science ...................................... 3 | Total .................................................................................... 32-38 |
| HUM-1400 Introduction to the Humanities ........................................ 3 |  |
| PEF-1990 Physical Activity and the Christian Life ............................. 1 | Fourth year: |
| Concentration Electives ............................................................ 6-8 | BEGE-3760 Christian Worldview Integration ................................... 2 |
| Physical Education Activity Elective ............................................... 1 | COM-2300 Voices of Diversity ..................................................... 3 |
| Total .............................................................................33.5-35.5 | EDMC-4000 Reading in the Content Area Middle Childhood ............... 3 |
|  | EDMC-4050 Responsive Schools for Middle Childhood ..................... 3 |
| Second year: | EDMC-4440 Middle School Clinical II ................................................. 2 |
| BEGE-2730 Old Testament Literature ............................................ 3 | EDMC-4900 Student Teaching and Seminar .............................. 10-12 |
| BEGE-2740 New Testament Literature ........................................... 3 | EDMC-XXXX Middle School Methods II Concentration Areas .............. 6 |
| EDMC-2500 Educational Psychology of Middle Childhood ................. 3 | EDUC-4500 Philosophy of Education ............................................. 2 |
| EDSP-2000 Teaching Children with Exceptionalities ......................... 2 | Concentration Electives ............................................................ 3-4 |
| EDSP-2050 Special Education Field Experience .............................. 1 | Total ................................................................................... 34-37 |
| 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 |  |
| Total ................................................................................... 35-36 |  |

## 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:
Teacher Education Core (see page 75) ................................. 12
Special Education Foundations .............................................. 12
EDSP-2510 Survey of Mental Retardation and
Developmental Disabilities
.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
Special Education Block ........................................................ 1
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
Reading Methods .................................................................... 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 ...................................................... 1
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
Student Teaching ..... 10-12
*EDSP-4900 Student Teaching and Seminar: Sp.E.10-12 *Capstone Course

## Special Education Major Curriculum Summary

Proficiency Requirements0-5
General Education Requirements ..... 56.5-64.5
Special Education Major Requirements ..... 76
Total (minimum, not including proficiency) ..... 132.5

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.

[^4]
## A complete description of the General Education

 Requirements is found on page 18

## 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 which 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.
Teacher Education Core ..... 12
EDSP-2000 Teaching Children with Exceptionalities ... 2
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-2500 Educational Psychology ..... 3

Upon completion of the Teacher Education Core and before enrolling in the Principles of Teaching block, students must make formal application to the Teacher Education Program (TEP). The requirements for admission to the TEP are outlined earlier in this section of the catalog. Most Adolescent and Young Adult and Multi-Age Teacher Education majors apply for admission during their Junior year. The Education Department's Licensure \& 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
${ }^{1}$ EDSE-3300 Developmental Reading........................... 3
${ }^{2}$ EDSE-4000 Reading in the Content Area: AYA ............. 3
EDSE-4450 AYA Clinical Experience ............................. 3
EDSP-4000 Principles of Inclusion ............................... 1
Additional Requirements:
${ }^{3}$ 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)
${ }^{1}$ AYA integrated language arts majors only
${ }^{2}$ AYA integrated language arts does not take this course. AYA math majors may take this course out-of-class in the summer. ${ }^{3}$ 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 -Fa,Sp
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 realworld situations and other disciplines. Prerequisite: EDUC1000 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:\$30)
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: \$60)
EDUC-2300
2 hours
Introduction to the Reading Process-Fa, Sp
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
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.
chairman.
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
3 hours
Practicum in Educational Technology-Fa, $\mathrm{Sp}, \mathrm{Su}$
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 3 hours Su (Out-of-Class)
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

0 hours
Seminar in Cross Cultural Student Teaching-Fa,Sp
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 chairman, 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 chairman. (Fee: \$25)
EDUC-4900
10-12 hours
Student Teaching and Seminar: Multi-Age-Fa, Sp
A teaching experience working with students in a range of age levels under the supervision of the 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
12 hours
Student Teaching and Seminar in Special Education and Early Childhood-Fa,Sp
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: \$120)

## Early Childhood Education (EDEC)

EDEC-2100
2 hours
Art, Music, and Drama for Early Childhood-Fa,Sp
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.
EDEC-3600
3 hours
Issues in Early Childhood Administration-Fa, Sp
An examination of program issues important to both teachers and administrators. Includes examination of models for leadership and for developing and maintaining personal and community working relationships. Prerequisite: admission to the teacher education program. Corequisite: other courses in the 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
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
1 hour
Field Experience in Early Childhood Education-Fa,Sp
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 <br> 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.

## 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 theorydriven 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: \$100)

## 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

3 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

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
3 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 Il 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
EDMC-4300
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.

## School of Social Sciences and Professional Studies

## EDMC-4440 Middle Childhood Clinical II-Fa

This clinical experience allows the teacher candid 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: \$100)

## 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: \$100).

## Special Education (EDSP)

EDSP-2000
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


Education programs combine in-class instruction with extensive classroom teaching experience in order that students will develop teaching abilities prior to graduation.
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. Taken in a special 2-week block during the sophomore summer.

## 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-SuAn 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 Survey of Behavior Disorders-Su 2 hours
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 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: \$30)

## 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 Principles of Inclusion-Fa, Sp
1 hour
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 Adaptive Curriculum and Instruction-Fa 2 hours
An introduction to the curriculum, intervention strategies, instructional materials, and educational technology used with students with mild-moderate special educational needs. Prerequisite: admission to the teacher education program. Corequisite: other courses in the Special Education block. EDSP-4150 Career and Occupational Training-Fa 2 hours
A look at the role of occupational training in the special education curriculum, including the techniques used in developing occupational interests and abilities at various age levels. Prerequisite: admission to the teacher education program. Corequisite: other courses in the Special Education block.
EDSP-4250 2 hours
Communication, Collaboration, and Inclusion Skills-Fa,Sp
A presentation of the techniques of collaboration and consultation needed to enhance communication of the teacher candidate 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 functional assessment and the behavioral intervention process. Prerequisite: admission to the teacher education program. Corequisites: other courses in the Special Education block.
EDSP-4400 Assessment in Special Education-Fa 4 hours
Study in the administration and interpretation of formal and informal educational assessment instruments used for the placement of students with mild-moderate needs 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-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

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 to 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: \$100)

## Purpose Statement

The engineering program at Cedarville University blends the academic subjects required of all accredited engineering programs with "hands-on" experience through extensive laboratory work and design projects. Our curriculum introduces freshmen to 3-D Solid Modeling in the Computer-Aided Engineering Graphics course and digital electronics in the Digital Logic Design course. This provides students with practical experience and early insight into subsequent theory.
Our program enjoys the rich technical environment in the surrounding community and provides frequent opportunities for interaction with engineers working on the latest aerospace, automotive, and electronics technology.

The department faculty have the following vision: "We, the Elmer W. Engstrom Department of Engineering, seek to honor the Lord Jesus Christ in every endeavor and earnestly desire to cultivate engineers 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."

## Personal Requirements

Students interested in studying engineering but uncertain of the specific engineering major have until the spring semester of the freshman year to choose computer, electrical, or mechanical engineering as a major. Faculty advisors, the Career Services Office, and engineering field trips represent some of the resources available to students contemplating which engineering major to choose.

## Department Requirements

## New students

Students who enjoy and excel in science and mathematics, and who want to help people, have the highest potential for careers as engineers. 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 an engineering major. 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, 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 a single foreign language

It is also helpful for students to have some computer programming experience using a language such as BASIC, VisualBasic, PASCAL, C, C++, or FORTRAN. Experience with spreadsheets and word processors is also helpful.

## Retention Requirement

Engineering majors must demonstrate proficiency in certain lower-level courses to advance into upper-level, 3000-level courses. Hence, all engineering majors must earn an overall GPA of 2.0 or higher by the end of their sophomore year. Furthermore, to advance into the junior year, all engineering majors must earn a combined GPA of 2.0 or higher in all of their engineering courses and a combined GPA of 2.0 or higher in the following courses: MATH-1710, 1720, and 2710 - Calculus I,II, and III*, MATH-2740 - Differential Equations, and PHYS-2110
and 2120-General Physics I and II.
*not included for computer engineering

## Graduation Requirements

1. Earn a cumulative grade point average of 2.0 or above in all engineering and cognate courses.
2. Take an assessment exam similar to the Fundamentals of Engineering Examination.

## Programs of Study

The Department of Engineering offers three programs of study:

- Computer Engineering (B.S.Cp.E.)
- Electrical Engineering (B.S.E.E.)
- Mechanical Engineering (B.S.M.E.)


## 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).

## State Approval

The B.S.Cp.E, B.S.E.E. and B.S.M.E. programs have full approval by the Ohio Board of Regents.

## Registration as a Professional Engineer

Seniors and graduates 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. Cedarville University seniors have consistently had a passing rate above the state and national average.

## Technical Resources

Our modern labs include the following: senior design labs, fluids lab with an 18 -inch cross-section wind tunnel, heat transfer, refrigeration, mechanics, materials testing, internal combustion engine dynamometers, CNC manufacturing, electrical machines, feedback controls, circuits, electronics, communications, digital logic, microprocessors, surface-mount soldering, vibrations, and dynamics of machines. We also have computer-based circuit design tools, 3-D solid-modeling, FEA, CFD, and CNC software.

## Co-Curricular Opportunities

Engineering freshmen participate in the annual Cardboard Canoe Challenge at Homecoming. Other events include the sophomore Statics and Dynamics design competitions and the Advanced Digital Logic Design competition.
The department provides engineering students an opportunity to participate in some of the national and international engineering design competitions organized by professional engineering societies. Student chapters of national organizations (ASME, IEEE, SAE, ASEE, and SWE) encourage their members to participate in Aerodesign, Formula SAE, MicroBaja, Mini-Baja, Robotics, Solar Splash, and Supermileage competitions.
Recently, Cedarville University took first place in SAE's Supermileage (2000), SAE's Aerodesign West (2003), AEC/ ASME Solar Splash (2004), and ASEE's Autonomous Vehicle (2001,2002,2003).

## Career Opportunities

Engineering is the art of applying scientific and mathematical principles, experience, judgment, and common sense to make things that help people. Engineers are problem solvers; they
make things work better, more efficiently, more quickly, and less expensively. Engineers design EKG and ultra-sound machines to help doctors diagnose medical problems, spacecraft to explore planets, machines to generate electricity to power cities, and technology to combat terrorism. They are designing faster and more powerful computers, advanced communication systems, and safer and more fuel-efficient cars and airplanes. Engineers are on the cutting edge of technology.
Engineers spend a lot of time interacting and communicating with others, often working on a team with others. With a strong science, mathematics, and technology background, the engineer often rises to leadership positions in a variety of settings, working at all stages-research, development, design, construction, production, operations, marketing, sales, and management-to develop new ideas into products.
In this era of rapid technological change, an engineering education serves our society well. In the decades ahead, society's needs and problems will call for engineering contributions on a scale not previously experienced.

## Faculty

Lawrence Zavodney, Chairman: 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.
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. 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., Shaghai Jiao Tong University, 1992;
M.S.E.T., Pittsburg State University, 1998; Ph.D., The University of Akron, 2004. At Cedarville since 2004.
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.
Samuel SanGregory, 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.
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 NebraskaLincoln, 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, University of Dayton. At Cedarville since 2002.

## Technical Support Staff

David Denlinger, Mechanical Engineering Technician. At Cedarville since 1993.
Jonathan Gain, Electrical Engineering Technician. Education:
B.S.E.T., LeTourneau University, 1968. At Cedarville since 1992.

## 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 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
Robert Bremer, Jr.
Gary Clasby Duriron Company, Incorporated
Donald Copland, Procter and Gamble Company, retired,
ANOVA Limited
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.
James Engelman, Delphi Energy and Engine Management, retired
William Engstrom, Engstrom Foundation
Dennis Ferrigno, Bateman Engineering, Incorporated
Stephen Harris, Rixan Associates, Incorporated
Dennis Hess, DataTel Communications
Richard Holmes, Holmes and Mays
Phillip Houston, Greene County Department of Development
Dan Kerr, GM Specialty Cars Division
Frank Klatt, Rockwell International, retired
Tim Lawrence, Ball Aerospace and Technologies Corp.
Joe Mays, Holmes and Mays
Walker Mitchell, Mitchell Consulting
Fritz Russ, Russ Venture Group, Incorporated
H. Ted Santo, Dayton Power and Light

Terry Smith, Rittal Corporation
Ted Tate, Tate Model and Engineering, Incorporated
Jay Tieber, Ohio Department of Development
Ron Weber, Lowrance Electronics, Incorporated
Walt Weisel, Robotic Workspace Technologies
Don Wilkinson, Johnson Controls, Inc.
Bryan Williams, Procter and Gamble
Riad Yammine, Speedway/Super America, retired
Edwin Young, University of Michigan

## Computer Engineering

Course requirements for the B.S.Cp.E. degree are comprised of the following and may be modified by the department chairman.

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
${ }^{1}$ 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
Two EGCP Electives (must include one 4000-level course) ........ 6
Required Cognates.......................................................................27.5
${ }^{2}$ CHEM-1050 Chemistry for Engineers ................................. 3.5
${ }^{3}$ MATH-1710 Calculus I ............................................................ 5
MATH-1720 Calculus II............................................................ 5
MATH-2740 Differential Equations .......................................... 3
MATH-3110 Probability and Statistics I ................................... 3
PHYS-2110 General Physics I ................................................ 4
PHYS-2120 General Physics II ............................................... 4
${ }^{1}$ Satisfies humanities General Education Requirements
${ }^{2}$ Satisfies physical science General Education Requirements
${ }^{3}$ 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
Total (minimum, not including proficiency) .......................... 140

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 ..... $\ldots 3$
Total ..... 33.5
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. .....
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 ..... $\begin{array}{r}1.4 \\ +1 \\ \hline\end{array}$
Total ..... 35
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 ..... 3
EGGN-3110 Professional Ethics .....  .3
GSS-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to Humanities ..... 3
Literature Elective
36
Total
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 .....
EGME-3170 Thermal Systems. ..... 2
MATH-3110 Probability and Statistics I .....
Biology Elective ..... 3.5
Computer Engineering Electives .....  6
History Elective .....  3
Social Science/Global Awareness Elective5

# Engineering <br> School of Engineering, Nursing, and Science 

## Electrical Engineering

Course requirements for the B.S.E.E. degree are comprised of the following and may be modified by the department chairman.Course requirements involve 67 semester hours including:
EGCP-1010 Digital Logic Design3
EGCP-1310 Algorithmic Programming ..... 2
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
${ }^{1}$ 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
Three EGEE Electives (must include one 4000-level course) ..... 9
Required Cognates. ..... 30.5
${ }^{2}$ CHEM-1050 Chemistry for Engineers ..... 3.5
${ }^{3}$ MATH-1710 Calculus I ..... 5
MATH-1720 Calculus II ..... 5
MATH-2710 Calculus III ..... 3
MATH-2740 Differential Equations ..... 3
PHYS-2110 General Physics I ..... 4
PHYS-2120 General Physics II ..... 4
Mathematics Elective (Select one of the following:) ..... 3
EGEE-3370 Probability and Random Processes for Engineers ..... 3
MATH-3610 Linear Algebra ..... 3
MATH-3740 Complex Variables ..... 3${ }^{1}$ Satisfies humanities General Education Requirements${ }^{2}$ Satisfies physical science General Education Requirements
${ }^{3}$ 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

A complete description of the General Education
Requirements is found on page 18

## 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
EGCP-1010 Digital Logic Design .......................................................... 3
EGCP-1310 Algorithmic Programming ................................................. 2
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
Total ........................................................................................... 33.5

## 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-1000 Foundations of Social Science .......................................... 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
Total ............................................................................................. 35

## 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
Total .............................................................................................. 36

## 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
Total .......................................................................................... 35.5

## Mechanical Engineering

Course requirements for the B.S.M.E. degree are comprised of the following and may be modified by the department chairman.

## Course requirements involve 70 semester hours including: <br> EGCP-1010 Digital Logic Design ........................................... 3

EGEE-2050 Circuits and Instrumentation ................................ 4
EGEE-3530 Electrical Machines .............................................. 3
EGGN-1110 The Engineering Profession .............................. 1
${ }^{1}$ 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
Engineering Electives (must include one 4000-level course) ...... 6
Required Cognates........................................................................ 27.5
${ }^{2}$ CHEM-1050 Chemistry for Engineers ............................... 3.5
${ }^{3}$ MATH-1710 Calculus I ........................................................... 5
MATH-1720 Calculus II ........................................................... 5
MATH-2710 Calculus III .......................................................... 3
MATH-2740 Differential Equations .......................................... 3
PHYS-2110 General Physics I ................................................ 4
PHYS-2120 General Physics II ............................................... 4
${ }^{1}$ Satisfies humanities General Education Requirements
${ }^{2}$ Satisfies physical science General Education Requirements
${ }^{3}$ 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
Total (minimum, not including proficiency) .......................... 140

A complete description of the General Education Requirements is found on page 18

## 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
Total ........................................................................................... 33.5

## 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
Total ............................................................................................... 35
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
Total ............................................................................................... 36
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-1000 Foundations of Social Science .......................................... 3
Biology Elective ............................................................................. 3.5
Engineering Elective ........................................................................... 6
Literature Elective .................................................................................... 3
Social Science/Global Awareness Elective ........................................ 3
Total ........................................................................................... 35.5

# Engineering 

## 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 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
EGGN-3110 Professional Ethics-Honors.............................. 3
EGXX-4XXX 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 Thermodynamics5
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.


Cedarville entered the Formula SAE competition for the first time in 2004 and was one of 134 teams that entered the competition. Engineering students designed and built this formula-style race car (which can accelerate from zero to sixty mph in four seconds) to compete in a series of selected events.

## Course Descriptions

## 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, participation in group activities and design projects, introduction to ethical and moral issues in engineering practice, and introduction to engineering computer applications. Term project introduces Christian heritage in science and engineering. (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-4010 Senior Seminar-Fa

Required weekly meeting of senior engineering majors to discuss the transition into the professional work environment. Prerequisite: senior status in engineering. (Fee: \$35)

## 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 the fundamentals of 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-1310 Algorithmic Programming-Sp 2 hours
Introduction to algorithmic computer programming for engineering and scientific problem solving, fundamentals of coding, and debugging programs. A language such as C, C++, or Java is used. Algorithms and data structures are applied to scientific and engineering problems.
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-Fa

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 and one two-hour laboratory per week; 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

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

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.

## EGCP-4810

## 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: senior status in computer engineering. Corequisite: EGCP-4210 Advanced Computer Architecture. (Fee: \$100)
EGCP-4820
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)


Clinching the Aerodesign West Competition in 2003, brothers Brian and Nathan Foote found themselves the proud owners of the first-place trophy. Made from carbon fiber composite materials, their unique 5.25-lb plane lifted 23 pounds of cargo. They also received the best technical report award.

## EGCP-4950

Advanced Topics in Computer Engineering
Selected topics in computer engineering at the 4000-level that expand the depth of existing 3000- and 4000-level courses or expose the students to advanced concepts not taught in other courses. Topics may be proposed by the engineering faculty or students. Prerequisite: instructor's permission.

## Electrical Engineering Courses EGEE-2010 Circuits-Sp

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. Design project required. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)
EGEE-2050 Circuits and Instrumentation-Sp
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. Prerequisites: PHYS2120 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
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 centrallimit theorem, and Gaussian processes to engineering problems. May be used to satisfy the mathematics elective requirement for electrical engineers. Prerequisite: EGEE-3330 Communications Theory.
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. (Fee: \$50) (odd years)
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 twohour laboratory per week. Prerequisite: EGEE-2010 Circuits; or EGEE-2050 Circuits and Instrumentation. (Fee: \$100)


In the championship 300-meter sprint pitting the three fastest boats, Brian Morgan (BSME '04) steers the Cedarville Boat past Cal Poly (foreground) in the final 50 meters to cinch first place in the 2004 Solar Splash Sprint. When combined with $3^{\text {rd }}$ place in solar endurance, $2^{\text {nd }}$ place in solar slalom and $3^{\text {rd }}$ place in the technical report, Cedarville was named the 2004 World Champions! The team also received the Outstanding System Design Trophy. Details of the competition are posted at www.solarsplash.com.

EGEE-3920 Electrical Engineering Internship
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
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

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 <br> 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


A recent addition to the annual Cardboard Canoe Challenge for students taking the Introduction to the Engineering Profession course is the "King of The Lake Demolition Dunking Derby." Teams that are successful in crossing the lake in the timed race are eligible to compete. The goal is to sink an opposing canoe by ramming into it. Winners of the Demolition Dunking Derby receive a trophy declaring them "King (or Queen) of the Lake."
processors. Filter designs are implemented in Matlab. Design project required. Prerequisites: EGEE-3110 Linear Systems; EGCP-1310 Algorithmic Programming or equivalent. EGEE-4250 CMOS VLSI Design-Sp
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. (Fee: \$50) (even years)
EGEE-4330
3 hours
Advanced Communications and Networks-Sp
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: EGEE3330 Communications Theory. Corequisite: EGEE-3370 Probability and Random Processes for Engineers or instructor's permission.
EGEE-4410 Feedback Control Systems-Fa
4 hours
Introduction to the analysis and design of analog feedback control systems with emphasis on modeling, transfer functions, root locus, frequency response, Bodé plots, Nyquist Criterion, stability, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, and performance indices. Three lecture hours and one two-hour laboratory or recitation per week. Design project required. Prerequisite: EGEE-3110 Linear Systems. (Fee: \$100)
EGEE-4450 Digital Control Systems-Sp
3 hours
Introduction to analysis and design of discrete-time sampleddata control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. Prerequisite: EGEE-4410 Feedback Control Systems.
(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-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 twohour 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

## Advanced Topics in Electrical Engineering

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-1820 Solid Modeling-Sp
1 hour
Advanced techniques using a PC and commercial solidmodeling software to create three-dimensional solid models; techniques of solid modeling including extrusions, cuts, lofting, sweeps, drawing generation and assemblies. Includes bill of material management, sheet metal, and mold design.
Prerequisite: EGME-1810 Engineering Graphics. (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 leastsquares 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-Sp 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 rigidbody systems; vector analysis, forces, moments, resultants, twoand 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 rigidbody systems; vector analysis, forces, moments, resultants, twoand 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)


The 2003 Home Fire-Fighting Robot team designed and built an autonomous robot that was able to overcome floor obstacles and navigate around furniture in the rooms while on a "seek and put-out-thefire" mission. The robot's main components included two batterypowered servo motors, seven distance sensors, one flame sensor, one micro-controller, and one large Field Programmable Gate Array. At the international competition in Hartford, Connecticut, the Cedarville team took $1^{\text {st }}$ place in the college division. Faculty advisor, Dr. Clint Kohl, entered a robot in the most advanced division and took fourth place.

## EGME-3020

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
Introduction to Finite Element Analysis-Sp
Introduction to basic components of the finite element method including element selection, shape functions, straindisplacement 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;
PHYS-2120 General Physics II; 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; EGME3110 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
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: PHYS-2120 General
Physics II; 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 invisid 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 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 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 metalmatrix composites are analyzed for strength, anisotropy, and

2 hours
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 Topics in Mechanical Engineering 1-3 hours
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

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 Radiation and Solar Energy
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 Propulsion
2 hours
Introduction to the principles of thrust production, compressible flow of gases, thermodynamics of jet propulsion systems, and parametric performance analysis of jet engines. Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. EGME-4270 Compressible Fluid Flow

2 hours
Introduction to the compressible flow of gases in engineering systems; isentropic flow in variable-area passages, shock and expansion waves; and flow with wall friction and heat transfer. Prerequisites: EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.
EGME-4410 Introduction to Fracture Mechanics
3 hours
Introduction to failure modes caused by static and dynamic loading, brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure, stress corrosion cracking, and strain hardening mechanisms. Prerequisite: EGME-2410 Properties of Engineering Materials.
EGME-4530 Advanced Mechanics of Materials-Fa 3 hours
Advanced treatment of stress and strain including coordinate transformations, the eigenvalue problem, Mohr's circle and linear constitutive equations. Failure theories and energy methods, including Castigliano's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. Prerequisite: EGME-2530 Statics and Mechanics of Materials.

## EGME-4610 Dynamics of Machines

3 hours
Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. Prerequisite: EGME-3610
Kinematics and Design of Machines.
EGME-4660 Principles of Automatic Controls-Fa
3 hours
Introduction to theoretical and experimental analysis of classical analog feedback control systems with emphasis on modeling, transfer function formulation, frequency response, root locus, Bodé plots, stability, and compensator design. Three lecture hours and one two-hour laboratory or recitation per week; design project required. Prerequisite: EGEE-2050 Circuits and Instrumentation. (Fee: \$100)
EGME-4710 Vibrations
3 hours
Free and forced vibrations of mechanical systems having lumped mass and elasticity, single and multiple degree-offreedom systems, matrix formulation, eigenvalues and eigenvectors, normal mode theory, Laplace Transform, dissipative systems, introduction to random, continuous, nonlinear vibrations, and engineering applications. Prerequisite: EGME-2630 Dynamics. (Fee: \$15)
EGME-4720 Vibrations Lab
1 hour
Laboratory experiments to demonstrate and support EGME4710 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

## 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
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

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.


Every year, the sophomore engineering students participate in the mechanics class competitions. The Dynamics class of Spring 2004 designed and built a baseball catcher, using only coffee-stirring sticks and 1.25 ounces of Elmer's glue. The catcher had to span a 20-inch support and catch a baseball dropped from 15 feet. Shown above are the first place winners Josh Parker and Daniel Gallagher, who built the lightest-weight successful catcher.

## Purpose Statement

The Department of Exercise and Sport Science seeks to:

1. Provide a program that will promote the physical, intellectual, and spiritual development of each individual through the medium of physical activity.
2. Develop an awareness of the Christian's stewardship responsibility with regard to the care and use of the body.
3. Provide experiences and instruction that will help develop Christ-like attitudes and actions in and through sports, games, self-testing activities, aquatics, and lifetime recreational pursuits.
4. Prepare students for careers in exercise science, teaching physical education or health, sport management, coaching, recreation, health promotion, or other related fields.

## 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 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 $11 / 2$ mile run is used to evaluate the status of the student's fitness.
For information regarding specific program requirements, see page 78 for the Department of Education admission and retention requirements.

## Programs of Study

The Department of Exercise and Sport Science offers the following programs of study:
Majors

- Exercise Science
- Multi-Age Physical Education (certification for teaching pre-K to 12)
- Physical Activity and Sport Studies
- Sport Management

Minors

- Coaching
- Health Promotion
- Multi-Age Health Education (certification for teaching pre-K to 12)


## Co-Curricular Opportunities

The Department of Exercise and Sport Science has several opportunities for students to increase their professional skills and awareness, including:

- Exercise science majors - Membership in American College of Sports Medicine (ACSM) and the Alliance of Health and Fitness Professionals membership program
- Multi-age physical education and Physical Activity and Sport Studies majors - Membership in American Alliance for Health, Physical Education, Recreation, and Dance (AAHPERD)
- Sport management majors - Membership in North American Society for Sport Management (NASSM)


## Career Opportunities

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

- Administrator of youth activities and youth organizations
- Athletic director
- Coach
- College professor
- 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


## 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, Assistant Professor of Exercise and Sport Science. Coach, women's volleyball. NCCAA National Volleyball Chair. 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, Assistant 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.
Pamela Diehl Johnson, Dean: School of Health and Human Performance. Senior Professor of Exercise and Sport Science. Coach, women's tennis; member, NAIA Women's Tennis National Tournament Committee; member, Executive Committee, Greene County Special Olympics; NCCAA National Tennis Chair; coauthor, Physical Fitness and the Christian. 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 1979.

## 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 District 22 "Administrator of the Year," 1987-89; 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

The exercise science major prepares students for careers in exercise physiology, cardiac rehabilitation, biomechanics, or 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 66 semester hours including: BUS-2100 Business Communication ................................ 3 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
ESS-3900 Physiology of Exercise ....................................... 3
ESS-3920 Biomechanics.................................................... 2
ESS-3940 Structural Kinesiology........................................ 3
ESS-4600 Research in Athletic Training and Exercise
Science
. 2
ESS-4900 Physical Education Senior Seminar .................... 1
EXSC-2000 Worksite Observation ...................................... 0
EXSC-3000 Exercise Science Practicum (1 hour each) ..... 2
EXSC-3180 Legal Issues in the Sport Industry .................. 3
EXSC-3860 Basic Exercise Testing ................................... 3
EXSC-3870 Basic Exercise Prescription ............................ 3
EXSC-4810 Organization and Administration of Exercise
Science
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 GSCI-1020 Principles of Physical Science

## Exercise Science Major Curriculum Summary

Proficiency Requirements ........................................................ 0-5
General Education Requirements .......................................43-51
Exercise Science Major Requirements .................................... 66
Electives ................................................................................11-19
Total (minimum, not including proficiency) .......................... 128

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Exercise Science

## 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 ............................................................
PEF-1990 Physical Activity and the Christian Life ............................... 1
Physical Education Activity Elective ....................................................... 1
Total .............................................................................................. 31
Summer:
EXSC-2000 Worksite Observation ...................................................... 0
Second year:
BEGE-2730 Old Testament Literature ................................................. 3

BUS-2100 Business Communication .................................................. 3
ESS-2380 Motor Learning \& Development........................................... 3
ESS-3890 Human Anatomy \& Physiology for the Physical Educator .. 5
ESS-3900 Physiology of Exercise ........................................................ 3
GSS-1000 Foundations of Social Science ............................................ 3
HUM-1400 Introduction to the Humanities ............................................... 3
Literature Elective .................................................................................. 3
Electives ................................................................................................ 3
Total ................................................................................................... 32
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-3000 Exercise Science Practicum (2 semesters) ...................... 2
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
Social Science/Global Awareness Elective ......................................... 3
Electives .............................................................................................. 3
Total ............................................................................................... 33
Fourth year:
ESS-4600 Research in Athletic Training and Exercise Science.......... 2
ESS-4900 Physical Education Senior Seminar (Spring Semester) ...... 1
EXSC-3180 Legal Issues in the Sport Industry ..................................... 3
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 ........................................................................................... 5-8
Total .................................................................................................... 32

## Multi-Age Physical Education

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.

Course requirements involve 81 semester hours including: Physical Education
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 hour each for 2 semesters)
. 2
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
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
Professional Education .............................................................. 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

## Multi-Age Physical Education Major Curriculum Summary

Proficiency Requirements........................................................ 0-5
General Education Requirements .......................................47-55
Multi-Age Physical Education Major Requirements ................. 81
Total (minimum, not including proficiency) .......................... 128

A complete description of the General Education Requirements is found on page 18
Suggested Four-Year Curriculum for a Major in Multi-Age Physical 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
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-1120Tumbling ..... 1
PEAS-1130/1140 Apparatus .....  .1
PEAS-17XX Swimming Elective ..... 1
PEF-1990 Physical Activity and the Christian Life ..... 1
Total ..... 32.5
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
4
Total ..... 34.5
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-1000 Foundations of Social Science ..... 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
Total ..... 27
Summer:
EDUC-4000 Reading in the Content Area: Multi-Age ..... 3
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 (2 semesters) ..... 2
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
Humanities ElectiveTotal34-36

## Exercise and Sport Science

## Physical Activity and Sport Studies

The physical activity and sport studies major prepares students for a career in entry-level positions in YMCA's 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: 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
Three Physical Education courses selected from ............. 3
PEAE-XXXXActivity Elective ......................................... 1
PEAI-XXXX Individual Sport Elective ........................... 1
PEAL-XXXX Leisure Elective ........................................ 1
Three Physical Education courses selected from ............. 3
PEAR-XXXX Rythmics Elective .................................... 1
PEAS-XXXX Tumbling or Apparatus ........................... 1
PEAT-XXXX Team Sport Elective ................................. 1
Swimming Requirements ................................................. 1-2
PEAS-1700 Swimming I-Beginners:Coed ................. 1
(or PEAS-1720 Swimming II-Intermediate:Coed...... 1)
(or PEAS-1730 Swimming III-Advanced:Coed.......... 1)
(or PEAS-1740 Lifeguarding Today:Coed.................2)
(or PEAS-1750 Water Safety Instructor:Coed ...........2)
PEF-1990 Physical Activity \& the Christian Life ................. 1
3000 or 4000-level Exercise \& Sport Sci. Electives .... 10-14
(Minimum 4 courses, excluding independent study or internship courses)
*PASS-4990 Internship in Phys. Activity \& Sport Studies...3-6 (or PASS-4995 Senior Research Project in Physical Activity \& Sport Studies)
Minor requirements (approval of advisor)........................ 15
*Capstone Course

## Physical Activity and Sport Studies Major Curriculum Summary <br> Proficiency Requirements ....................................................... 0-5

General Education Requirements .......................................50-55
Physical Activity and Sport Studies Requirements ............39-47
Electives ...............................................................................25-42
Total (minimum, not including proficiency) ......................... 128

## A complete description of the General Education

Requirements is found on page 18
Suggested Four-Year Curriculum for aMajor in Physical Activity and Sport 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
HUM-1400 Introduction to the Humanities ..... 3
ESS-1350 Foundations of Exercise and Sport Science ..... 2
ESS-1400 First Aid and Safety Education ..... 2
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
Total ..... 32.5
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
Minor Electives .....  3
Physical Science Elective ..... 3.5
History Elective ..... 3
Literature Elective ..... 3
Social Science/Global Awareness Elective ..... 3
31.5-32.5
Total
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-1000 Foundations of Social Science ..... 3
PEAE-XXXX or PEAI-XXXX or PEAL-XXXX Elective ..... 1
PEAR-XXXX or PEAS-11XX or PEAT-XXXX Elective .....  1
3000 or 4000 Level ESS courses ..... 5-7
Minor Electives .....  5
Humanities Elective .....  3
Electives ..... 1-3
Total ..... 32
Fourth year:
PASS-4990 Internship or PASS-4995 Senior Research Project ..... 3-6
3000 or 4000 Level ESS courses ..... 5-7
Minor Electives .....  5
Electives ..... 14-18
Total ..... 32

## Exercise and Sport Science

School of Health and Human Performance

## 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:
Sport Management Core
ESS-3800 Sport Psychology ..... 2
PEF-1990 Physical Activity and the Christian Life ..... 1
SMGT-1000 Sport Management Practicum (1 hour each). ..... 5
SMGT-1350 Introduction to Sport Management ..... 3
SMGT-3180 Legal Issues in the Sport Industry ..... 3
SMGT-3610 Marketing in the Sport Industry ..... 3
SMGT-3810 Organization and Administration of Sports and Athletics ..... 3
SMGT-4660 Promotions and Public Relations in Sport ..... 3
*SMGT-4990 Internship in Sport Management ..... 12
Business Core ..... 15
ACCT-2110 Principles of Accounting I .....  3
BUS-2100 Business Communication ..... 3
BUS-3990 Professional Development ..... 0
BUS-4990 Executive Development ..... 0
MIS-1500 Information Management in a Dynamic World ..... 2
MIS-1510 Information Management Software Tools Lab ..... 1
MGMT-3500 Principles of Organization and Management.MRKT-3600 Principles of Marketing3
Electives from the following6
ACCT-2120 Principles of Accounting II ..... 3
BUS-4420 Business Ethics and Social Responsibility ..... 2
COM-3140 Intercultural Communication .....  3
COM-3230 Organizational Communication ..... 3
COM-3240 Interpersonal Communication ..... 2
ECON-2330 Microeconomics ..... 3
MGMT-3510 Small Business Management ..... 3
MRKT-3680 Nonprofit Marketing ..... 3
MRKT-3690 Services Marketing ..... 3
SMGT-1000 Sport Management Practicum (1 hour each)

| 1 |
| :--- |

SOC-2300 Principles of Sociology
*Capstone Course
Sport Management Major Curriculum Summary
Proficiency Requirements ..... 0-5
General Education Requirements ..... 51-59
Sport Management Major Requirements ..... 56
Electives ..... 13-21
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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
ENG-1400 Composition ..... 3
HUM-1400 Introduction to the Humanities .....  3
PEF-1990 Physical Activity and the Christian Life ..... 1
SMGT-1000 Sport Management Practicum .....  1
SMGT-1350 Introduction to Sport Management .....  3
Quantitative Elective .....  3
Physical Education Activity Elective .....  1
Physical Science Elective ..... 3.5
Total ..... 31
Second year:
ACCT-2110 Principles of Accounting I .....  3
BUS-2100 Business Communication ..... 3
BEGE-2730 Old Testament Literature .....  3
BEGE-2740 New Testament Literature .....  3
GSS-1000 Foundations of Social Science .....  3
MIS-1500 Information Management in a Dynamic World .....  2
MIS-1510 Information Management Software Tools Lab

SMGT-1000 Sport Management Practicum (2 semesters) .....  2
History Elective ..... 3
Humanities Elective .....  3
Literature Elective .....  3
Electives ..... 5
Total ..... 33
Third year
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
BUS-3990 Professional Development (2 semesters) ..... 0
ESS-3800 Sport Psychology .....  2
MGMT-3500 Principles of Organization and Management .....  3
MRKT-3600 Principles of Marketing .....  3
SMGT-1000 Sport Management Practicum (2 semesters) .....  2
SMGT-3180 Legal Issues in the Sport Industry ..... 3
SMGT-3610 Marketing in the Sport Industry ..... 3
SMGT-3810 Organization and Administration of Sports andAthletics.3
Social Science/Global Awareness Elective ..... 3
Sport Management Electives .....  6
Electives
35
Total
Fourth year:
BUS-4990 Executive Development (2 semesters) ..... 0
SMGT-4660 Promotions and Public Relations in Sport ..... 3
SMGT-4990 Internship in Sport Management ..... 12
Electives ..... 14
Total ..... 29

## Minors

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

The health promotion minor is a noncertificate 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 course work 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
One course selected from the following:
MAHE-4990 Health Promotion Internship............................. 3
PYCH-1600 General Psychology .......................................... 3
SOC-3710 Family and Society ............................................... 3
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. 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: Health Education28
ESS-1400 First Aid and Safety Education ..... 2
ESS-3890 Human Anatomy and Physiology for the Physical Educator
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
Professional Education ..... 36
EDSP-2000 Teaching Children with Exceptionalities ..... 2
EDSP-2050 Special Education Field Experience .....
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

## Course Descriptions

## General Education

PEF-1990
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-sociological perspective. Emphasis is placed upon developing and continuing active, healthy, Christian life practices.

## 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)-Fa,Sp 1 hour
PEAE-1400 Weight Training: Coed-Fa,Sp
PEAI-1430 Badminton: Coed-Fa,Sp
PEAI-1460 Bowling: Coed (Fee: \$15)-Fa, Sp
PEAI-1540 Golf: Coed(Fee: \$15)-Fa
PEAI-1550 Intermediate Golf: Coed (Fee: \$25)-Fa
PEAI-1600 Racquetball: Coed (Fee: \$15)-Fa,Sp
PEAI-1770 Tennis: Coed-Fa,Sp,Su 1 hour 1 hour 1 hour 1 hour 1 hour 1 hour 1 hour 1 hour

PEAL-1420 Backpacking: Coed (Fee: \$30)-Fa,Sp
PEAL-1510 Cycling: Coed-Fa
PEAL-1610 Rock Climbing: Coed (Fee: \$125)-Fa PEAL-1620
Intermediate Rock Climbing:Coed (Fee: \$125)-Sp
PEAR-2100 Rhythmics: Coed-Fa
PEAS-1120 Tumbling: Coed-Sp
PEAS-1130 Apparatus: Men-Sp
PEAS-1140 Apparatus: Women-Sp
PEAT-1020 Basketball: Coed-Fa,Sp
PEAT-1050 Soccer: Coed-Fa,Sp
PEAT-1820 Volleyball: Coed-Fa, Sp
PEAT-1830 Advanced Volleyball: Coed

1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour
1 hour

Students choose from a wide range of activity courses, such as backpacking, to fulfill the required physical education activity elective. PEAS-1700 Swimming l-Beginners: Coed-Fa 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 Focuses on refining the front crawl, back crawl, elementary 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 AS-1730 Swimming III-Advanced: Coed-Sp 1 hour 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 <br> 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-Sp (even years)
CCHG-3720 Coaching Basketball-Fa (odd years)
CCHG-3730 Coaching Track and Field
and Cross Country-Sp (odd years)
CCHG-3740 Coaching Softball and Baseball-Fa (even years)
CCHG-3760 Coaching Soccer-Sp (odd years)
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-Sp
2 hours
Principles of prevention, recognition, management, and rehabilitation of athletic injuries are presented for the student anticipating professional employent as a supervisor of individuals engaged in recreation and sport activities. (Fee: \$35) ESS-2380 Motor Learning and Development-Sp 3 hours A study of the stages in motor development and the factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition. The course provides cognitive and psychomotor knowledge of fundamental locomotor, nonlocomotor, and manipulative motor skills.
ESS-3800 Sport Psychology-Sp
2 hours
Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective.
Prerequisite: PYCH-1600 General Psychology, junior status, or permission of instructor.
ESS-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 <br> 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. Prerequisities: 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-Fa
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-4900 Physical Education Senior Seminar-Fa,Sp 1 hour each
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. Students register for one hour each semester of their senior year. Capstone course.

## Exercise and Sport Science Electives

ESSE-1350 Foundations of Sport Ministries-Sp
This introductory course will give an overview of sport ministries. 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)
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
ESSE-2310 Volleyball Officiating
ESSE-2320 Track and Field Officiating
ESSE-2810 Introduction to Camping-Sp
The development and scope of camping including philosophies of centralized and decentralized camping, standards, administration, and basic campcraft skills. Special arrangement only. This course does not fulfill the Physical Education General Education activity course requirement or the Outdoor Leisure requirement of the physical education major. (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)

## 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-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.
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. Prerequisities: 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. Prerequisities: EXSC-3860 Basic Exercise Testing. (Fee:\$15)
EXSC-4810

## Organization and Administrationof 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: ESS1350 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; EXSC2000 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 <br> 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-Sp 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.

## 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, healthrelated issues that challenge our society. This course recognizes the reality that there are "no easy answers" as ethics, technology, and economics merge to generate new dilemmas of increasing complexity every day.

## MAHE-3100 Drug Education-Sp <br> 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.


Students learn how to promote physical, intellectual, and spiritual development through the medium of physical activity.

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
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. 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

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

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 MAPE4950 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)

## Physical Activity and Sport Studies

## PASS-4990 <br> 3-6 hours

Internship in Physical Activity and Sport Studies-Fa,Sp
This is a work experience in a physical activity and sport 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 physical activity and sport studies major. Senior status and departmental approval are required. Credit/no credit (Fee \$35)

## PASS-4995

 3-6 hoursSenior Research Project in Physical Activity and Sport-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 physical activity and sport studies major. Prerequisitie: 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)

3 hours

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-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. SMGT-3610 Marketing in the Sport Industry-Sp 3 hours

This course will present the following concepts of sport marketing: definition of sport marketing and unique characteristics, the marketing management process, and identification and analysis of consumers.

## SMGT-3810

3 hours
Organization and Administration of Sports and Athletics-Fa
Study of current issues, management techniques, and programming concepts as utilized in the administration of athletics, intramurals, and recreational sports.
SMGT-4660
3 hours

## Promotion and Public Relations in the Sport Industry-Fa

A study of the various ways to promote sport to the public in a professional and ethical manner.
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-4990 Internship in Sport Management-Fa,Sp 12 hours 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 couse for sport management major. Departmental approval is required. Credit/no credit. (Fee: \$35)


Advanced hands-on experience helps exercise and sport science majors to develop skills needed for careers regarding care and use of the body.

## Purpose 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 between 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 Officers 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: \$350)
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:

${ }^{1}$ 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

$\qquad$ 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).
${ }^{1}$ 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.

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                            3
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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 <br> 10 hours <br> HON-1010 The Classical and Medieval Ages <br> 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 Women in America

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.
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 Two Philosophies of Teaching and Learning 2 hours 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 <br> 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 <br> 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 globalplanetary 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-4910 Honors Senior Colloquium 1 hour
Development of a generic understanding of the integration of faith, learning, and life.
HON-4920 Honors Senior Colloquium 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.
International Studies Core Requirements ..... 21
${ }^{1,2}$ ANTH-1800 Cultural Anthropology ..... 3
${ }^{2}$ BEPH-2260 Religion and Culture ..... 3
BUS-3910 International Business ..... 3
${ }^{2}$ COM-3140 Intercultural Communication ..... 3
(or PYCH-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
Concentrations
The following three concentrations are available:

- Global economics and international business
- Missiology
- Social science
The global economics and international business concentra-
tion provides students with an economic view of the international
community. Utilizing courses in business, economics, andpolitical science, this program prepares business-orientedstudents for careers in international management, marketing,finance, comparative economics, missions, and the foreign
service. Course requirements involve 54 hours, including:
Business Administration Core Requirements ..... 36
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 Financial Management of the Firm ..... 3
MGMT-3500 Prin. of Organization and Management. ..... 3
*MGMT-4510 Administrative Policy and Strategy ..... 3
MIS-1500 Information Management in a Dynamic World ... ..... 2
MIS-1510 Information Management Software Tools Lab. .....  1
MRKT-3600 Principles of Marketing ..... 3
Global Economics and International Business
Requirements ..... 12
ECON-3350 Comparative Economic Systems ..... 3
ECON-3360 International Trade and Economics ..... 3
ECON-3380 Economic Development and Political Economy 3MGMT-3570 International Management 3
(or MRKT-4620 International Marketing ..... 3)
Electives selected from: ..... 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
Additional Required Cognate:GMTH-1040 Calculus for Business3

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.
${ }^{1}$ satisfies social science General Education Requirement
${ }^{2}$ satisfies humanities General Education Requirement
${ }^{3}$ satisfies history General Education Requirement
${ }^{4}$ satisfies mathematics General Education Requirement *Capstone Course
International Studies Major-Global Economics and International Business Concentration Curriculum Summary:
Proficiency Requirements 0-5
Other General Education Requirements .............................. 40-48
International Studies Core Requirements.................................. 21
Global Economics and International Business Requirements .. 54
Required Cognates ...................................................................... 3
Electives ................................................................................. 2-10
Total (minimum, not including proficiency) .......................... 128
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:
Missiology Concentration Requirements. ..... 3
*BEPT-4500 Missionary Internship ..... 6BENT-3XXX New Testament Elective
3BEOT-3XXX Old Testament Elective
3BEPT-2000 Introduction to Mission
3
BEPT-2400 Personal Evangelism ..... 3BEPT-2420 History of Mission
3BEPT-3450 Contemporary World Mission
BEPT-3470 Cross-Cultural Ministry ..... 3
BEPT-3510 Introduction to Urban Ministry3
BEST-4310 Hermeneutics ..... 3
BETH-3XXX Theology Electives ..... 6
Electives selected from: ..... 18
Two courses in philosophy:
BEPH-2200 Introduction to Philosophy ..... 3
BEPH-2250 Ethics ..... 3
BEPH-3250 Philosophy of Religion .....  3
BETH-3330 Christian Evidences and Apologetics ..... 3
One course in sociology:SOC-3340 Sociology of Religion 3
SOC-3710 Family and Society ..... 3
One course in geography or political science:
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 East 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
One course in economics:
ECON-3350 Comparative Economic Systems. ..... 3
ECON-3360 International Trade and Economics ..... 3
ECON-3380 Economic Development andPolitical Economy .3
One course in literature or culture:
4LIT-2340 Western Literature ..... 3
SPAN-3680 Understanding Hispanic Culture ..... 3
${ }^{1}$ Satisfies social science General Education Requirement
${ }^{2}$ Satisfies humanities General Education Requirement${ }^{3}$ Satisfies history General Education Requirement${ }^{4}$ Satisfies literature General Education Requirement
*Capstone Course
International Studies Major-Missiology Concentration Curricu- lum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 40-48
International Studies Core Requirements ..... 21
Missiology Concentration Requirements ..... 60
Electives ..... 0-7
Total (minimum, not including proficiency) ..... 128
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:
Social science requirements ..... 9
ECON-3350 Comparative Economic Systems ..... 3
INTL-3650 International Relations ..... 3
*INTL-4500 Research in International Studies ..... 3
Social Science Electives selected from: ..... 21
Three or more courses from the following:
ECON-3360 International Trade and Economics. .....  3
ECON-3380 Econ. Development and Political Economy ..... 3
HIST-3060 History of Modern Germany ..... 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 East Asia .....  3
INTL-3220 History and Politics of the Middle East .....  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-4400 Seminar in International Studies ..... 3
INTL-4980 Independent Study in International Studies. ..... 1-3
(Travel study must be approved by the department)
At least one course from philosophy and theology:BEPH-3250 Philosophy of Religion3
BEPT-3450 Contemporary World Missions ..... 3
At least one course from language and literature:
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 cognates:
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).
${ }^{1}$ Satisfies social science General Education Requirement
${ }^{2}$ Satisfies humanities General Education Requirement
${ }^{3}$ Satisfies history General Education Requirement
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
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a <br> 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-1000 Foundations of Social Science .....  3
HUM-1400 Introduction to the Humanities ..... 3
LIT-2340 Western Literature ..... 3
PEF-1990 Physical Activity and the Christian Life .....
Biology Elective ..... 3.5
Physical Education Activity Elective ..... 1
Quantitative Elective .....  .3
Total ..... 32.5
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 PYCH-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
Total ..... 33.5
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
Total ..... 32
Fourth year:
BEGE-3760 Christian Worldview Integration ..... 2
Concentration Requirements ..... 15-24
Electives ..... 4-11
Total ..... 28-30


ROTC offers an excellent opportunity to learn leadership skills while also serving our country.

## 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 that 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 (website: www.wright.edu/academics/prog/rotc), or the Cedarville University Admissions Office at 1-800-CEDARVILLE.


## Air Force ROTC 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.

[^5]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 freshmen 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

## The ARMY Reserve Officer Training Corps (ROTC)

Army ROTC is a college elective you can try out for up to two years with no obligation. Unlike traditional college programs, Army ROTC gives you a wide range of experiences while you work toward a degree. You'll combine classroom time with hands-on experience, learning skills that are sure to give you an edge over your peers when it comes time to look for a job. Whether you're planning a career in the Army or the corporate world, Army ROTC is a smart elective course to take. Your studies will include Leadership Development, Military Skills, Decision Making, Problem Solving, and Adventure Training.
First and foremost, an Army officer is a leader. The officer plans the work of the organization, assigns tasks to others and sees that the work is accomplished to the highest standard. Officers lead by example. Officers daily make decisions that involve millions of dollars of resources. Their judgment and skill can mean the difference between life and death for the soldiers they command.
Army ROTC scholarships pay tuition and required fees, and can be worth as much as $\$ 70,000$ or more. They are awarded on merit - like academic achievements, extracurricular activities, and personal interviews. Scholarship winners receive a stipend (\$250 freshman, \$300 sophomore, \$350 junior, \$400 senior) for
each academic month, plus an allowance for books and other educational items. If you are a non-scholarship student, you can still receive the stipend as a contracted cadet during your last two years.
Army ROTC course requirements count as elective credits in 128 semester hours required for graduation.

## Contact us:

Central State University (ROTC Host School)
Carl E. Jenkins Technology Education Building, Room 142
Phone Number: (937) 376-6281/6208

## Army ROTC Course Descriptions

MIL-1511

## 3 hours

## Foundations of Officership with Leadership Laboratory

Make your first new peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, repelling, leadership reaction course, first aid, making presentations, and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. Learn and practice basic skills. Build self-confidence and team building leadership skills that can be applied throughout life. Physical Fitness is optional for NonContracted Cadets. Students will participate in and learn to lead a physical fitness program. Emphasis will be placed on the development of an individual fitness program and the role of exercise and fitness in one's life. The course is taught to meet the requirement for entry into the Advance ROTC Program, incurs no military obligation, and is open to all Cedarville University students.

## MIL-2512

## 3 hours

Leadership and Teamwork with Leadership Laboratory Introduction to individual and team aspects of military tactics in small unit operations. Includes using radio communication, making safety assessments, movement techniques, planning for team safety/security, and methods of pre-execution checks. Practical exercises with upper division ROTC students. Learn techniques for training other as an aspect of continued leadership development. Learn and practice basic skills. Build self-confidence and team building leadership skills that can be applied throughout life. Physical Fitness is optional for Non-Contracted Cadets. Students will participate in and learn to lead a physical fitness program. Emphasis will be placed on the development of an individual fitness program and the role of exercise and fitness in one's life. The course is taught to meet the requirement for entry into the Advance ROTC Program, incurs no military obligation, and is open to all Cedarville University students.

MIL-2895 Leadership Training Course 3 hours A28-day summer camp conducted at Fort Knox, Kentucky. The student receives pay. ROTC defrays travel, lodging, and most meals costs. Completion of MIL-2895 qualifies a student for entry into the Advance Course. Spaces are limited. Candidates can apply for space any time during the school year prior to the summer. Must receive permission from Professor of Military Science before enrolling in the course.

The Advance Course consists of the courses MIL-3511, 3512, 3895, 4511, and 4512. It is open only to students who have completed the Basic Course or earned placement credit. In order to receive placement credit, see the Professor of Military Science. The Advance Course is designed to qualify a student for commission as an officer in the United States Army. Students must complete all courses numbered greater than 3000, to include MIL-3895 Leadership Development and Assessment Course (LDAC) in the summer at Fort Lewis, Washington, usually between the junior and senior years. The courses must be taken in sequence unless otherwise approved by the Professor of Military Science. Scholarship and Non-Scholarship Students in MIL-3511 and 3512 will receive $\$ 350$ a month. Students in MIL-4511 and 4512 will receive $\$ 400$ a month.

## Purpose Statement

The 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 a specific requirement in their major.

## Programs of Study

The Department of Language and Literature offers the following programs:
Majors

- English
- Integrated Language Arts
- Multi-Age Spanish Education
- Spanish
- Technical and Professional Communication


## Minors

- Creative Writing
- Literature
- Spanish
- Spanish for Professionals
- TESOL (Teaching English to Speakers of Other Languages)


## 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 Practicas (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. Students interested in the program should contact Dr. Barbara Loach or 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. 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. Students interested in the program should contact Dr. Barbara Loach or 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 - Missions
- International business
- Internet-based communications
- Journalism
- Law
- Publishing
- Teaching
- Technical communication
- Technical marketing


## Faculty

Kevin Heath, Chairman: Associate 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, Assistant 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.
Shannah Campbell, Instructor of English. Education:B.A., Cedarville University, 1999; M.A., The Ohio State University, 2001. At Cedarville since 2002.

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.
Sandra Harner, Professor of English. Education: B.A., Cedarville University, 1964; M.A., University of Dayton, 1981. At Cedarville since 1981.
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; graduate study, 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.

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.

Daniel Sternsher, Assistant Professor of Technical Communication. Education: B.S., Bowling Green State University, 1989; M.Ed., Bowling Green State University-College of Technology, 1998. At Cedarville since 2001.

Peggy Wilfong, Associate 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, 19901991; 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.
Branson Woodard, Professor of English. Education: B.S., East Carolina University, 1971; B.A., Free Will Baptist College, 1978; M.A., Tennessee State University, 1979; D.A., Middle Tennessee State University, 1982. At Cedarville since 2003.
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.


Professor Sternsher leads his Technical and Professional Communication class in a team project to develop technical instructions for a local company's product.

## English

Course requirements for the English major involve 52 semester hours including:
Core Requirements22
ENG-2230 Advanced Composition ..... 2
LIT-2090 Literary Analysis .....  2
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
Studies in Modern Literature: Two Courses ..... 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
Historical Studies in English: Two Courses ..... 6
ENG-3060 The English Language ..... 3
LIT-3190 19th Century American Literature .....  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
Genre Studies: Two Courses ..... 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
Electives in English/Literature ..... 12
*Capstone Course
English Major Curriculum Summary
Proficiency Requirements ..... 0-5
English Major Requirements ..... 52
Other General Education Requirements ..... 49-57
Electives ..... 19-27
Total (minimum, not including proficiency) ..... 128


The English department faculty prepare students to think broadly and to evaluate literature and life from a Christian perspective.

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in English <br> 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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
LIT-2090 Literary Analysis ..... 2
LIT-2340 Western Literature ..... 3
PEF-1990 Physical Activity and the Christian Life ..... 1
History Elective. ..... 3
Humanities Elective ..... 3
Physical Education Activity Elective ..... 1
$\ldots$
Total ..... 34.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
ENG-2230 Advanced Composition .....  2
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
Total ..... 32.5
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
LIT-3350 Shakespeare ..... 3
Literature Electives: Studies in Modern Literature .....  6
Literature Electives: Historical Studies in English ..... 6
Electives ..... 12
Total ..... 31
Fourth year:
LIT-4220 English Seminar ..... 3
Literature Genre Studies ..... 6
English Electives ..... 9
Electives ..... 12
Total ..... 30


## Integrated Language Arts Education

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. Integrated Language Arts Education Core 56
COM-1100 Fundamentals of Speech ..... 3
COM-2300 Voices of Diversity ..... 3
COM-2320 Theories of Mass Media .....  3
(or COM-3140 Intercultural Communication ..... 3)
EDSE-3100 Contemporary Young Adult Literature ..... 3
ENG-1400 Composition .....  3
ENG-2210 Principles of Journalism ..... 3
ENG-2230 Advanced Composition ..... 2
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
LIT-2090 Literary Analysis ..... 2
LIT-2130 Dramatic Literature ..... 3
LIT-2340 Western Literature ..... 3
LIT-2440 Survey of British Literature from 1800 to Present 3
LIT-3200 Methods of Teaching Composition and Literature ..... 3LIT-3350 Shakespeare
LIT-3510 Modern American Literature ..... 3
THTR-1410 Introduction to the Theatre ..... 3
THTR-3610 Teaching Creative Dramatics ..... 2
Professional Education Requirements ..... 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 .....
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
One of the following emphases must be completed:Literature emphasis .6
LIT-2390 Survey of American Literature to 1900 .....  3
LIT-2430 Survey of British Literature to 1800 ..... 3
Dramatic arts emphasis ..... 6
COM-3120 Argumentation and Debate ..... 3
THTR-3470 Dramaturgy ..... 3
*Capstone Course
Integrated Language Arts Major Curriculum Summary
Proficiency Requirements0-5
Other General Education Requirements ..... 40-48
Integrated Language Arts Major Requirements ..... 62
Education Requirements ..... 33-35

## A complete description of the General Education

 Requirements is found on page 18
## Suggested Four-Year Curriculum for a Major in Integrated Language Arts

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-3140 Intercultural Communication ..... 3
(or COM-2320 Theories of Mass Media ..... 3)
EDUC-1000 The Education Profession ..... 1
ENG-1400 Composition ..... 3
GSS-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
LIT-2090 Literary Analysis ..... 2
LIT-2340 Western Literature ..... 3
PEF-1990 Physical Activity and the Christian Life ..... 1
THTR-1410 Introduction to Theatre ..... $\begin{array}{r}3 \\ \hline\end{array}$
Total ..... 34.5
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
Total ..... 33
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 ..... 2
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
THTR-3610 Teaching Creative Dramatics ..... 2
Physical Science Elective ..... 3
Social Science Elective ..... $\begin{array}{r}1.3 \\ \hline\end{array}$
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-2210 Principles of Journalism ..... 3
LIT-2130 Dramatic Literature ..... 3
LIT-3200 Methods of Teaching Composition/Literature ..... 2
LIT-3510 Modern American Literature ..... 3
History Elective ..... 31-33
Total (minimum, not including proficiency) ..... 135

## 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 56 semester hours in specific technical and professional communication courses.
To be admitted to the technical and professional communication program a student must have a cumulative GPA of 2.5 in ENG-1400 Composition, TPC-3010 Style for Technical Communicators, and TPC-3100 Designing Visual Communication.
Technical and Professional Communication Core ..... 56
*ENG-2230 Advanced Composition ..... 2
*ENG-3070 Advanced Grammar for Adolescent Teachers ..... 3
TPC-3000 Production Tools for Technical Communication3
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
*These courses must be completed before the junior year.
**Capstone Course
Technical and Professional Communication Major Curriculum Summary
Proficiency requirements ..... 0-5
Other General Education Requirements ..... 52-60
Technical and Professional Communication Requirements .....  .56
Electives ..... 2-20
Total (minimum, not including proficiency) ..... 128

## 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
Don Humphreys, Bank One
Donna Kaufman, retired, Jenzabar, Inc.
Dave Kimmel, Whiteman Hart, Inc.
Sylvia Miller, Spherion Technology Architects, Lexis/Nexus, Inc. Meredith Shinko, IBM, Research Triangle Park
Walt Staudenmaier, Bastion Consulting
Phil Wittmer, Reynolds \& Reynolds-Knowledge Services
Tom Zimmerman, GE Medical Systems

## A complete description of the General Education

 Requirements is found on page 18Suggested 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-1000 Foundations of Social Science ..... 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
Total ..... 32.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
ENG-2230 Advanced Composition ..... 2
ENG-3070 Advanced Grammar for Adolescent Teachers ..... 3
Humanities Elective ..... 3
Physical Science Elective ..... 3.5
Social Science .....  3
Electives ..... 12
Total ..... 32.5
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
Total ..... 26
Summer
TPC-3290 Proofreading ..... 2
TPC-4160 Internship ..... 10
Total ..... 12
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
Total ..... 25

# Language and Literature School of Humanities, Fine Arts, and Bible 

## 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 .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
Two courses selected from the following:
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
Electives in Spanish ............................................................ 6
*Capstone Course

## Spanish Major Curriculum Summary

Proficiency Requirements ........................................................ 0-5
Other General Education Requirements ................................... 49
Spanish Major Requirements ................................................... 34
Electives ...................................................................................... 45
Total (minimum, not including proficiency) .......................... 128

A complete description of the General Education
Requirements is found on page 18

## Suggested Four-Year Curriculum for a <br> 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
Total ..... 34.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
GSS-1000 Foundations of Social Science ..... 3
SPAN-2710, 2720 Intermediate Spanish ..... 7
Literature Elective ..... 3
Physical Science Elective ..... 3.5
Quantitative Elective ..... 3
Electives ..... 6
Total ..... 31.5
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
Total ..... 34
Fourth year:
SPAN-4610 Advanced Spanish Grammar ..... 3
SPAN-4640 Topics in Hispanic Culture ..... 3
Spanish Literature Electives ..... 6
Spanish Electives ..... 6
Electives ..... 10
Total ..... 28

[^6]
## Multi-Age Spanish Education

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:Spanish Education major core courses:
LING-3080 Linguistics for Language Learning ..... 3
SPAN-1710, 1720 Elementary Spanish ..... 8
SPAN-2710, 2720 Intermediate Spanish ..... 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 ofLatin America I, II6
SPAN-4680 Advanced Conversation and Composition ..... 2
SPAN-4740, 4750 Civilization and Literature ofSpain I, II644
Electives in Spanish ..... 9
SPAN-3670 Introduction to Translation ..... 3
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
Professional Education Requirements ..... 42-44
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 Teachers2
SPAN-3600 Clinical Teaching in Spanish ..... 2
SPAN-3700 Methods of Teaching Foreign Language ..... 2
*Capstone Course
Multi-Age Spanish Education Curriculum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 46
Spanish Education Major Requirements ..... 53
Education Requirements ..... 42-44
Total (minimum, not including proficiency) ..... 141

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Multi-Age Spanish 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 .....
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 Elective42.5
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
Total ..... 31.5
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-1000 Foundations of Social Science ..... 3
SPAN-4640 Topics in Hispanic Culture ..... 2
SPAN-4650, 4670 Civilization and Literature of Latin America I, II.
SPAN-3350 Elementary Education for Foreign LanguageTeachers2
SPAN-3600 Clinical Teaching in Spanish ..... 2
SPAN-3690 Hispanic Film .....  3
History Elective ..... 3
Social Science Elective ..... 3
Total ..... 35
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
10-12
EDUC-4900 Student Teaching and Seminar-Multi-Age
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
Total ..... 33-35

Language and Literature School of Humanities, Fine Arts, and Bible

## Minors

The minor in creative writing is designed to enhance the student's abilities in various modes of writing. Course requirements involve 16 hours including:
ENG-1400 Composition ..................................................... 3
ENG-2210 Principles of Journalism ................................... 3
ENG-3030 Creative Writing: Fiction ..................................... 2
ENG-3040 Creative Writing: Poetry ..................................... 2
ENG-3050 Creative Writing: Nonfiction ............................... 2
ENG-3110 Style and Mechanics for Writers ....................... 3
ENG-3620 Practicum in Journalism ................................... 1
The literature minor is designed to enhance the student's knowledge and appreciation of literature and the English language. Course requirements involve 15 hours including:
LIT-2340 Western Literature 3
American Literature: One course ........................................ 3
British Literature: One course ............................................. 3
Literature Electives: 3000-4000 level........................................ 6
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
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 involves 16 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 institutionendorsed 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 Language1
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 Learning3
LING-3090 Sociolinguistics ..... 3
LING-3700 Methods of Teaching Foreign Language ..... 2
*LING-3710 TESOL Practicum for Non-education Majors . 2 *LING-3710 may be satisfied by satisfactory completion of LING-3600 and LING-3610.


The Writing Center at Cedarville University specializes in helping students construct well-written papers by implementing appropriate style and grammar techniques.

## Course Descriptions

## English Language

ENG-1000 Basic English-Fa<br>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: ENG1400 Composition.
ENG-2230 Advanced Composition-Fa,Sp
2 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

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: ENG1400 Composition.
ENG-3040 Creative Writing: Poetry-Fa
2 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-Fa
2 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 professional and technical 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-4230 Independent Study in English-Fa,Sp 1-3 hours Independent study in a selected field for students with special interests and demonstrated ability.

## World, English, and American Literature

LIT-2090 Literary Analysis-Fa,Sp

## 2 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
A study of 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 Christ-figure in Film-Sp
This course will provide a detailed introduction to the characteristics of the Christ-figure and its most common manifestations in popular film. The class will also view and evaluate films in which a Christ-figure appears.

## 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: ENG1400 Composition.
LIT-2430 Survey of British Literature to $\mathbf{1 8 0 0}-\mathrm{Fa}, \mathrm{Sp} \quad 3$ hours Study of various English authors from the Anglo-Saxons to 1800. 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-3190 19th Century American Literature-Sp
3 hours
Study of American literature from 1830 to 1900, giving attention
to the romantic and realistic philosophies and literary commentaries as they apply to the major authors of this period. Prerequisite: major status or permission of instructor.
LIT-3200 2 hours
Methods of Teaching Composition and Literature-Fa
Designed to explore the various methods and materials essential to teaching composition and literature on the secondary level.
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-3310 The English NoveI-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.
LIT-3330 18th Century British Literature-Fa 3 hours
Analysis 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-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: Life, Thought, Literature-Sp 2 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; 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 the theoretical methods that currently drive research in the field of English studies. Marxism, Feminist and Gender theories, Structuralism, Post-Structuralism, Cultural Criticism,

Psychological Criticism, Reader-Response theories, and Formalist approaches will be analyzed from a Christian perspective. 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. (For technical and professional communication majors only.)
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
Students will learn to design and produce various technical documents and communication solutions for targeted audiences while exploring the technical communication profession. TPC-3170
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-Sp

2 hours
Students will learn to proofread using the techniques that professional proofreaders have found most practical and effective.

## Language and Literature

## School of Humanities, Fine Arts, and Bible

TPC-4010 Designing Technical Reports-Fa
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 I-Fa 1 hour
Students will maintain a professional porffolio 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 everchanging 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 <br> Arabic

ARBC-1510 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.
Spanish
SPAN-1710, 1720 Elementary Spanish-Fa,Sp,Su 4 hours/sem 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-2710, 2720 Intermediate Spanish-Fa,Sp 4/3 hours/sem 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. Prerequisite: admission into the teacher education program. (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

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
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. Sp '06.
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
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
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. Prerequisite: admission to the teacher education program.

## SPAN-4610 Advanced Spanish Grammar-Fa

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 $19^{\text {th }}$ 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 $19^{\text {th }}$ 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)

## French

FREN-1910, 1920 Elementary French
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
4 hours/sem
Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture.

## 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, $\mathrm{Sp}, \mathrm{Su}$
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.
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. (Fee: \$45)
LING-3700
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 K12 grade-level students. Prerequisite: admission to the teacher education or TESOL program.

## 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)

## Purpose Statement

The purpose of the 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.
The Department of Music and Art seeks to:

1. Provide cognitive tools for developing a comprehensive and integrated understanding of music theory, history, and literature.
2. Provide preparation in the skills of conducting, arranging, composing, and musical performance.
3. Provide opportunities for the development of musical and artistic sensitivity.
4. Provide a wide spectrum of performance and ministry opportunities.
5. Provide foundational knowledge for entrance into a chosen music vocation or graduate school.

## Personal Requirements (Music)

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.

## 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 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 chairman.

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 130
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.

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 "zero" credit.

Recital and Program 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 2 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

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:

- 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


## 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, Associate 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.
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., Louisianna State University, 2004; voice student of Stephen F. Austin and Cornelius L. Reid. At Cedarville since 2004.
Timothy Frame, Assistant Professor of Graphic Design. Education: B.A., Morehead State University. At Cedarville since 2003. Laila Kteily-O'Sullivan, Associate Professor of Music Theory. Education: B.M., North Texas State University, 1988; M.M., University of North Texas, 1990; Ph.D., University of North Texas, 1996. At Cedarville since 2000.

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 Koscielny 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, Assistant 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.

## Adjunct Faculty

- Lori Akins, flute
- Donald Compton, double bass
- Mary Davis-Fetherston, cello
- Bruce Grimes, sculpture ceramic
- Lisa Grove, oboe
- Chet Jenkins, saxophone
- Sheridan Kamberger, viola
- Jay LeBlanc, guitar methods
- Andrew Millat, trombone
- James O'Sullivan, percussion
- Lawrence Pitzer, guitar
- Carol Todd, music education
- Phyllis Warner, organ and piano, keyboard pedagogy
- Stacey Woolley, violin


The Concert Chorale is one of the many musical groups that performs regularly on campus and also travels throughout the country.

## 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 administrating a church muic teaching and training program for evangelical churches.
Students pursuing this major must complete the general education core.
The following requirements involve 76 semester hours:
Proficiencies ........................................................................... 0-8
Piano ................................................................................ 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
Music Foundation and Skills ..................................................... 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 .......... 3
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
Select one of the following:
CDMU-3610 Choral Conducting ........................................ 2
CDMU-3620 Instrumental Conducting .............................. 2
Music Contexts .............................................................................. 9
HLMU-2310 Introduction to Music Literature ...................... 3
HLMU-3310, 3320 Music History I, II............................................. 6
Music Performance
PFMU-3100-3980 Large Ensemble ................................... 2
PLMU-1000-4800 Private Lessons .................................... 8
*PLMU-4900 Senior Recital ................................................ 1
Church Music............................................................................. 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 .................... 76-84
Electives

A complete description of the General Education Requirements is found on page 18


## 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 76 semester hours including:
Proficiencies ..... 0-8
Piano ..... 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
Music Foundation and Skills ..... 26
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 ..... 3
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV ..... 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV .....  8
Music Contexts ..... 9
HLMU-2310 Introduction to Music Literature ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
Music Performance ..... 11
PFMU-3100-3980 Large Ensemble .....  2
PLMU-1000-4800 Private Lessons ..... 6
PLMU-4910 Senior Seminar ..... 2
*PLMU-4920 Senior Project ..... 1*Capstone CourseGeneral Studies (Electives, as approved by advisor)30
Music Major Curriculum Summary49-57
Music Major Requirements ..... 76-84
Electives ..... 0-3
Total (minimum, not including proficiency) ..... 128-136


Music students receive quality instruction from experienced and dedicated professors such as Dr. Mark Spencer, Associate Professor of Vocal Music.

## A complete description of the General Education Requirements is found on page 18 <br> 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
Total ..... 32
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 ..... 3
HLMU-2310 Introduction to Music Literature ..... 3
PFMU-XXXXEnsemble Performance .....  0
PLMU-XXXX Private Lessons ..... 2
THMU-2210, 2220 Music Theory III, IV ..... 6
THMU-2310, 2320 Aural Skills III, IV .....  4
Electives ..... 6
Total ..... 32
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
GMUS-XXXX Recital and Program Attend ..... 0
GSS-1000 Foundations of Social Science .....  3
HLMU-3310, 3320 Music History I, II ..... 6
PFMU-XXXXEnsemble Performance .....  0
PLMU-XXXX Private Lessons ..... 2
Biology Elective ..... 3.5
History Elective .....  3
Literature Elective ..... 3
Electives ..... 8
Total ..... 32.5
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
Total ..... 31.5

## 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 75 semester hours:
Proficiencies
Piano ............................................................................... 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
Music Foundation and Skills ...................................................... 28
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 .......... 3
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV ... 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV ......... 8
Select one of the following:
CDMU-3610 Choral Conducting ....................................... 2
CDMU-3620 Instrumental Conducting ............................. 2
Music Contexts ............................................................................. 9
HLMU-2310 Introduction to Music Literature ...................... 3
HLMU-3310, 3320 Music History I, II................................... 6
Music Performance...................................................................... 16
PFMU-3100-3980 Large Ensemble ................................... 4
PLMU-1000-4800 Private Lessons .................................. 10
PLMU-3900 Junior Recital .................................................. 1
*PLMU-4900 Senior Recital ................................................ 1
Music Composition ...................................................................... 22
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... 8
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 ...................................... 76-84
Electives ....................................................................................0-4
Total (minimum, not including proficiency) ....................128-136

## A complete description of the General Education Requirements is found on page 18

## 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
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) . ..... $\ldots 0$
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
Total32
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature. ..... 3
CDMU-2600 Introduction to Conducting .....  2
CLMU-2800 Introduction to Music Composition ..... 2
CLMU-2850 Composition Seminar ..... 0
GMUS-1030 Recital and Program Attendance (both semesters) .....  0
HLMU-2100 Jazz History: Music of the Multi-Culture .....  3
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
Total ..... 32
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-1000 Foundations of Social Science .....  3
HLMU-3310, 3320 Music History I, II .....  6
PFMU-XXXX Ensemble Performance .....  0
PLMU-XXXX Private Lessons .....  4
PLMU-3800 Private Composition .....  4
PLMU-3900 Junior Recital ..... 1
Biology Elective ..... 3.5
History Elective . .....  3
Literature Elective33.5Fourth year:
CLMU-2850 Composition Seminar ..... 0
CLMU-2860 Composition Portfolio .....  0
GMUS-1030 Recital and Program Attendance (both semesters) .....  0
PFMU-XXXXEnsemble Performance ..... 0
PLMU-4800 Private Composition .....  4
PLMU-4900 Senior Recital ..... 1
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
Physical Science Elective ..... 3.5
Quantitative Elective .....  3
Social Science/Global Awareness Elective ..... 3
Elective30.5

## 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 76 semester hours:Proficiencies0-8
Piano ..... 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
Music Foundation and Skills ..... 26
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 ..... 3
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV ..... 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV ..... 8
Music Contexts .....  .9
HLMU-2310 Introduction to Music Literature .....  3
HLMU-3310, 3320 Music History I, II ..... 6
Music Performance ..... 19
PFMU-3100-3980 Large Ensemble ..... 4
PLMU-1000-4800 Private Lessons ..... 14
*PLMU-4900 Senior Recital ..... 1
Keyboard Pedagogy ..... 22
KPMU-2010, 2020 Keyboard Pedagogy I, II ..... 6
KPMU-3110, 3120, 4110, 4120 DirectedTeaching I, II, III, IV4
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 ..... 76-84
Elective ..... 0-3
Total (minimum, not including proficiency) ..... 128-136


## A complete description of the General Education

 Requirements is found on page 18
## 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 .....  2
THMU-1210, 1220 Music Theory I, II .....  6
THMU-1310, 1320 Aural Skills I, II . ..... 4
Physical Education Activity Elective ..... 1
Total ..... 32
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 ..... 3
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
Total ..... 34
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
GMUS-1030 Recital and Program Attendance (both semesters) .....  0
GSS-1000 Foundations of Social Science ..... 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
Total ..... 32.5
Fourth year:
GMUS .....  0
KPMU-4110, 4120 Directed Teaching III, IV .....  2
KPMU-4150, 4160 Keyboard Pedagogy Seminar III, IV .....  4
PFMU-XXXX Ensemble Performance ..... 2
PLMU-4800 Private Composition .....  4
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
Elective29.5

## 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.
Proficiencies ..... 0-8
Piano0-5
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
Music Foundation and Skills ..... 31
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 ..... 3
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
Select one of the following
CDMU-3610 Choral Conducting ..... 2
CDMU-3620 Instrumental Conducting .....  2
Music Contexts ..... 9
HLMU-2310 Introduction to Music Literature ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
Music Performance. ..... 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
Instrumental Concentration ..... 14
EDMU-3750 Instrumental Pedagogy ..... 2
PFMU-3650 Chamber Ensemble (2 x 1 credit) ..... 2
THMU-4130 Orchestration ..... 2
Select one of the following
CLMU-2210 Brass Literature ..... 1
CLMU-2220 Percussion Literature ..... 1
CLMU-2230 String Literature ..... 1
CLMU-2240 Wind Literature ..... 1
Approved Electives ..... 7
Piano Concentration ..... 14
CLMU-2300 Keyboard Literature ..... 2
CLMU-2310 Collaborative Piano ( $6 \times 1$ credit) ..... 6
Select one of the following:
KPMU-2010 Keyboard Pedagogy I ..... 3
KPMU-2020 Keyboard Pedagogy II ..... 3
Approved Electives ..... 3
Vocal Concentration ..... 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
CLMU-2140 Opera Workshop (2 x 1 credit) ..... 2
EDMU-3730 Vocal Pedagogy ..... 2
*Capstone Course
Performance Major Curriculum SummaryGeneral Education Requirements49-57
Performance Major Requirements ..... 76-84
Elective ..... 0-3
Total (minimum, not including proficiency) ..... 128-136

A complete description of the General Education Requirements is found on page 18

## 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 .....
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
Total ..... 32
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 ..... 3
HLMU-2310 Introduction to Music Literature ..... 3
PFMU-XXXXEnsemble Performance ..... 2
PLMU-XXXX Private Lessons ..... 4
THMU-2210, 2220 Music Theory III, IV .....  6
THMU-2310, 2320 Aural Skills III, IV
34
Total ..... 34
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) ... ..... $\begin{array}{r}. . \\ \hline\end{array}$
GSS-1000 Foundations of Social Science .....  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 Elective33.5
Fourth year
CLMU-2120 Oratorio Literature ..... 2
CLMU-2130 Opera Literature ..... 2
CLMU-2140 Opera Workshop ..... 2
CLMU-2750 Performance Seminar ..... 0
CLMU-2760 Performance Portfolio ..... 0
GMUS-1030 Recital and Program Attendance (both semesters) .....  0
PFMU-XXXXEnsemble 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
Elective28.5

A complete description of the General Education Requirements is found on page 18

## 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-XXXXEnsemble 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
Total ..... 32
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 ..... 3
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
Total ..... 35
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-1000 Foundations of Social Science ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
PFMU-XXXXEnsemble Performance ..... 0
PLMU-XXXX Private Lessons .....  4
PLMU-3900 Junior Recital .....  1
Biology Elective ..... 3.5
History Elective ..... 3
Literature Elective. ..... 3
Total ..... 33.5
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) ...PFMU-XXXXEnsemble Performance
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 ..... 3
Total ..... 27.5

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 ..... $\begin{array}{r}1 \\ \hline\end{array}$
PFMU-XXXXEnsemble 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
Total ..... 32
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 ..... 3
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
Total ..... 31
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-1000 Foundations of Social Science ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
PFMU-XXXXEnsemble Performance ..... 0
PFMU-XXXX Chamber Music ..... 2
PLMU-XXXX Private Lessons ..... 4
PLMU-3900 Junior Recital
5
Biology Elective ..... 3.5
History Elective ..... 3
Literature Elective ..... 3
Total ..... 33.5
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 ..... 3
Total ..... 31.5
Bachelor of Music EducationThe Bachelor of Music Education prepares students to teachvocal, instrumental, or general music in grades K -12 in publicand Christian schools. Two tracks, choral and instrumental, areavailable. For information about teaching in Ohio and otherstates, see the Department of Education section of this catalog.
Proficiencies

$\qquad$ .....  0-8
Piano ..... 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
Music Foundation and Skills ..... 28-29
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 ..... 3
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV ..... 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV ..... 8
Choral majors also add:
CDMU-3610 Choral Conducting ..... 2
Instrumental majors also add:
CDMU-3620 Instrumental Conducting ..... 2
CLMU-1860 Voice Class ..... 1
Music Contexts ..... 9
HLMU-2310 Introduction to Music Literature ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
Music Performance ..... 11
PFMU-3100-3980 Large Ensemble ..... 2
PLMU-1000-4800 Private Lessons ..... 8
PLMU-4900 Senior Recital ..... 1
Music Education ..... 15
EDMU-1000 MENC ..... 0
EDMU-3710 Music for Early Childhood ..... 3
EDMU-3720 Music for Adolescent/Young Adult ..... 3
Choral majors also add:
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
Instrumental majors also add: EDMU-3910 Instrumental Administration ..... 3
Three of the following:
EDMU-2870 Brass Methods ..... 2
EDMU-2910 Woodwind Methods ..... 2
EDMU-2930 String Methods ..... 2
EDMU-2950 Percussion Methods ..... 2
Teacher Education ..... 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-Choral Major Curriculum Summary
General Education Requirements ..... 49-57
Music Education-Choral Major Requirements ..... 92-100
Total (minimum, not including proficiency) ..... 141-157
Music Education-Instrumental Major Curriculum SummaryGeneral Education Requirements49-57
Music Education-Instrumental Major Requirements ..... 93-100
Total (minimum, not including proficiency) ..... 142-159

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

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
Choral Total. ..... 36
Instrumental Majors Add:
EDMU-XXXX Instrumental Methods Electives ..... 4
Instrumental Total ..... 37
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
HLMU-2100 Jazz History: Music of the Multi-Culture ..... 3
HLMU-2310 Introduction to Music Literature ..... 3
PFMU-XXXXEnsemble Performance ..... 0
PLMU-XXXX Private Lessons ..... 2
THMU-2210, 2220 Music Theory III, IV ..... 6
THMU-2310, 2320 Aural Skills III, IV ..... 4
Total ..... 37
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) .....
GSS-1000 Foundations of Social Science ..... 3
HLMU-3310, 3320 Music History I, II ..... 6
PFMU-XXXXEnsemble 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
Choral Total ..... 36.5
Instrumental Majors Add:
CDMU-3620 Instrumental Conducting ..... 2
EDMU-3910 Instrumental Administration ..... 3
Instrumental Total ..... 37.5
Summer:
EDUC-4000 Reading in the Content Area: Multi-Age ..... 3
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-XXXXEnsemble Performance ..... 0
PLMU-XXXX Private Lessons ..... 2
PLMU-4900 Senior Recital .....  1
Physical Science Elective ..... 3.5
Quantitative Elective ..... 3
Social Science/Global Awareness Elective ..... 3
Choral Majors Add:
EDMU-2730 Wind and Percussion Methods ..... 2
EDMU-3730 Vocal Pedagogy ..... 2
Choral Total ..... 28.5-30.5
Instrumental Majors Add:
CLMU-1860 Voice Class ..... 1
EDMU-XXXX Instrumental Methods Elective ..... 2
Instrumental Total ..... 27.5-29.5

## 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.
Graphic Design major core courses ..... 54-60
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/lllustration ..... 3
GDES-2100 Typography ..... 2
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 ..... 3-9
ART/EMTC electives .....  8
ART-3210 Painting I ..... 3
ART-3230 Watercolor ..... 2
ART-3410 Ceramics ..... 3
ART-4100 $20^{\text {th }}$ Century Art ..... 2
ART-4990 Independent Study in Art ..... 1-3
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 ..... 54-60
ART/EMTC Electives .....  8
General Electives ..... 11-17
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education

 Requirements is found on page 18
## 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/lllustration ..... 3
HUM-1400 Introduction to the Humanitites ..... 3
Total ..... 31.5
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 ..... 2
GDES-3230 Production Design I .....  3
GSS-1000 Foundations of Social Science ..... 3
PEF-1990 Physical Activity and the Christian Life ..... 1
Literature Elective ..... 3
Physical Education Activity Elective ..... 1
Social Science Elective .....  3
Total ..... 31
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
Total ..... 33
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 ..... 3-9
Art Electives ..... 5
General Electives ..... 5-11
Physical Science Elective ..... 3.5
Total ..... 32.5

## Minors

The 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.
Art Core.
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
Elective (selected from):
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
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.
Music Core
... 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
Church Music Courses .................................................................
CHMU-2060 Music and the Arts in Worship ....................... 3
Select one of the following:
CHMU-2600 Music of the Church....................................... 3
CHMU-3630 Administering Church Music I ....................... 3
CHMU-3640 Administering Church Music II ..................... 3
The graphic design minor gives students who have an interest in the advertising and marketing aspects of art a foundational understanding of this important profession. The program includes coursework in both manual and computer-assisted art. It is suggested that students who minor in graphic design begin the program no later than their sophomore year. Course requirements involve 16-17 semester hours.
Graphic Design Core
ART-1100 Introduction to Art ............................................... 3
ART-1210 Drawing I ........................................................... 3
ART-2210 Design I .............................................................. 3
GDES-1210 Typography ..................................................... 2
GDES-2220 Graphic Design I ............................................. 3
Electives
EMTC-2310 Photography ..... 2
EMTC-2606 Intro to Comp. Animation for Electronic Media . 2
EMTC-2610 Preproduction Planning3
GDES-1100 History of Graphic Design ..... 1
GDES-2210 Digital Image/Photography ..... 3
GDES-3210 Digital Image/Illustration ..... 3

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

## Course Descriptions

2-3 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 twoand three-dimensional forms to explore their expressive and structural possibilities. Prerequisites: ART-1210 Drawing I; ART2210 Design I. (Fee: \$75)
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
Studio. 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-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 pstor 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. (odd 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. (even 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 chairman 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.

## Class Study

CLMU-1170 Diction for Singers -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.
CLMU-1820 Piano Class II-Sp
2 hours
Continued group instruction in piano fundamentals and repertoire. Prerequisite: CLMU-1810 Piano Class I. 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 $20^{\text {th }}$ 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 $21^{\text {st }}$ century operas. Representative works will be discussed from the Baroque, Seria, Buffa, Bel Canto, Romantic, Verismo, English, and Contemporary American styles.
(odd years)
CLMU-2140 Opera Workshop-Sp
1 hour
The coaching, staging, and performance of operatic literature in


Access to the modern music computer lab allows students to work on musical ideas and provides the means for putting creativity into practice.
scenes, recitals or full-scale productions. (odd years)
CLMU-2210 Brass Literature-Fa
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 $20^{\text {th }}$ 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
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 Porfolio-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
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.

## 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 tech-
nique and score analysis while learning to conceptualize musical fundamentals such as tone, intonation, balance, rhythmic ensemble, and interpretation. Prerequisite: CDMU2600 Introduction to Conducting.
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 Introducion 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 studentformed 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-3830 University Jazz Singers-Fa, Sp
0-1 hours
The University Jazz Singers is a chamber group made up of 1214 select voices, accompanied by an auditioned rhythm section of piano, bass, drums, guitar, and percussion. Repertoire is selected from representative styles and eras of American jazz, as well as from other ethnic jazz traditions. The development of improvisational skill within the literature will be emphasized among participants. Numerous concerts and festival participation are planned each year. Prerequisites: sophomore classification or higher; audition only.

## 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-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 challeng-
ing, 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.

## 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 sofware for image editing, through classroom discussion, reading, research, and studio assignments. GD majors and minors only. (Fee: \$50)
GDES-2100 Typography-Fa 2 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/IIlustration. 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-Fa
3 hours
An introduction to the technical processes required for the production of graphic design solutions in a variety of media. The course will provide opportunities to gain understanding of guidelines and requirements necessary for producing design documents in both conventional and electronic media. GD majors and minors only. (Fee: \$50)
GDES-4110 Port folio-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/IIlustration; 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
An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. Prerequisites: GDES-1150 Digital Image/IIlustration; 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 3-9hours 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.

## History

HLMU-2100 Jazz History: Music of the Multi-Culture-Fa 3 hours Survey of jazz as an American art form, as a representative of both Western and non-Western practices, which 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.
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 IFa

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-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.

## HUM-2430 Enjoyment of Music-Fa

3 hours
The 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.

## 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 predecessorsclavichord, 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 $20^{\text {th }}$ 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 Education <br> 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
1 hour
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


The Brass Choir consists of 20 to 25 brass players who perform several major concerts each year featuring the highest quality brass choir literature.
instruments, and voice; music in the curriculum; and teaching music concepts. Field and clinical experiences are a requirement of this course. Prerequisite: admission to the teacher education program; or permission of the instructor. (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. Field and clinical experience are a requirement of this course.
Prerequisite: admission to the teacher education program or permission of the instructor.(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
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)


Students with artistic interest and ability are challenged to develop their skills from a Biblical perspective and viewpoint.

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
Continued study of basic aural musicianship techniques: atsight 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: THMU1220 Music Theory II.
THMU-1500 Introduction to Music Technology-Fa
1 hour
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.

## THMU-2140 Functional Keyboard Skills-Fa

1 hour
Students will develop skills in harmonization at sight, transposition, playing by ear, and other keyboard harmony skills specifically designed to meet the piano proficiency requirements. Prerequisite: permission of the instructor.

## THMU-2210 Music Theory III-Fa

3 hours
Critical study and analysis of the chromatic harmony and formal structure of 18th and 19th century music. Creative work in traditional compositional forms.
THMU-2220 Music Theory IV-Sp
3 hours
Survey of contrapuntal techniques and analytical study of 20th century compositional techniques, including impressionistic, serial, neoclassical, and electronic practices: creative work in contemporary styles.
THMU-2310 Aural Skills III-Fa
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 fourvoice harmonic dictation, including more advanced chromatic language. Prerequisite: THMU-1320 Aural Skills II. Corequisite: THMU-2210 Music Theory III.
THMU-2320 Aural Skills IV-Sp
2 hours
Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by "guide tone" numeric scale degree method. More advanced melodic, rhythmic, and harmonic dictation, including all tonal language, as well as some extended chromatic possibilites and introduction to the non-tonal tendencies of the 20th century. Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV.
THMU-3110 Jazz Theory-Sp
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. Prerequisites: THMU-2220 Music Theory IV; THMU-2320 Aural Skills IV. THMU-3500 Advanced Music Technology-Sp

2 hours
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. Prerequisite: THMU-1500 Introduction to Music Technology, passing grade on competency exam, or permission of instructor. (Fee: \$50)
THMU-4100 Counterpoint-Sp 3 hours
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. Prerequisite: THMU-2220 Music Theory IV. (odd years)
THMU-4110 Form and Analysis-Sp
3 hours
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 $20^{\text {th }}$ century methods, including atonal/serial designs of Schoenberg, Perle, and Forte. Prerequisites: THMU2220 Music Theory IV; Thmu-2320 Aural Skills IV. (even years)


All students with musical talents and abilities are encouraged to use their gifts "Soli Deo Gloria" (for the glory of God alone).

## THMU-4130 Orchestration-Fa

## 2 hours

Designed to develop skills in scoring music for various instrumental groups. Prerequisite: THMU-2220 Music Theory IV. (Fee: \$30)
THMU-4140 Choral Arranging-Fa
2 hours
Study of arranging for the choral medium. Includes principles of arranging for children, youth, and adult choirs. Special attention given to arranging for large and small choral ensembles 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)

## THMU-4990

1-3 hours
Independent Study in Theory/Composition
Independent and intensive study in a particular area of music theory or composition for individual students who demonstrate special interests and ability. Repeatable up to three credits.

## Performance

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 chairman.
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)

## Private Study

PLMU-1000, 2000, 3000, 4000 Organ 1-2 hours
PLMU-1100, 2100, 3100, 4100 Piano 1-2 hours
PLMU-1200, 2200, 3200, 4200 Voice 1-2 hours
PLMU-1300, 2300, 3300, 4300 Trumpet
PLMU-1310, 2310, 3310, 4310
Trombone/Baritone Horn
PLMU-1320, 2320, 3320, 4320 French Horn
PLMU-1330, 2330, 3330, 4330 Tuba 1-2 hours
PLMU-1400, 2400, 3400, 4400 Clarinet
PLMU-1410, 2410, 3410, 4410 Flute
PLMU-1420, 2420, 3420, 4420 Saxophone
PLMU-1430, 2430, 3430, 4430 Oboe
PLMU-1440, 2440, 3440, 4440 Bassoon
PLMU-1500, 2500, 3500, 4500 Violin
PLMU-1510, 2510, 3510, 4510 Viola
PLMU-1520, 2520, 3520, 4520 Cello
PLMU-1530, 2530, 3530, 4530 Double Bass
PLMU-1550, 2550, 3550, 4550 Harp
PLMU-1600, 2600, 3600, 4600 Guitar
PLMU-1700, 2700, 3700, 4700 Percussion PLMU-2800, 3800, 4800 Music Composition

PLMU-3900 Junior Recital

## 1-2 hours

1-2 hours
1-2 hours
1-2 hours
1-2 hours
1-2 hours 1-2 hours 1-2 hours 1-2 hours 1-2 hours 1-2 hours 1-2 hours 1-2 hours

1 hour
Music major performance emphasis students should register for this course the semester they are ready to present their junior recital. Program is presented in a half recital format. (Fee: \$75)
PLMU-4900 Senior Recital
1 hour
Music majors should register for this course the semester in which their recitals are to be presented. Capstone course. (Fee: \$75)
PLMU-4910 Senior Seminar-Fa,Sp
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)
PLMU-4920 Senior Project-Sp
1 hour
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)

## Purpose Statement

We, the Department of Nursing at Cedarville University, 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 Cedarville University 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. Maintain 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 leave 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 FAO homepage.

## Programs of Study

Cedarville's nursing program leads to a Bachelor of Science in Nursing degree. Nursing students may also select a minor in cross-cultural nursing.

## Licensed Nurses Who Wish to Earn a Bachelor of Science in Nursing (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 the mission field.

## Faculty

Irene Alyn, Chairman: 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 (PT). Education: B.S.N., Cedarville University, 1986. At Cedarville since 1997.
Devon Berry, Assistant Professor of Nursing. Education: B.S.N., Cedarville University, 1995; M.S.N., Case Western Reserve University, 1997. At Cedarville since 1999.
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, 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, 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.

Sandra Hayward, Associate Professor of Nursing. Education: B.S.N., Cedarville University, 1986; M.S., Wright State University, 1992. At Cedarville since 1992.


Cedarville students work closely with their professors to learn valuable medical skills.

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.
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.
Kristine Kidder, Instructor of Nursing (PT). Education: B.S.N. Cedarville University, 1996. At Cedarville since 2003.
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, Instructor of Nursing (FT). Education: B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program (anticipated 2003). At Cedarville since 2001.

Jason Merritt, Instructor of Nursing (PT). Education: B.S.N. Cedarville University, 1999. At Cedarville since 2003.
David Sharp, Associate Professor of Nursing. Education: M.A., University of Aberdeen, Scottland, 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, Associate 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. 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.

## 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 within 30 miles of the campus, 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 may 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 ..... 71
Required Cognates ..... 31
Total (minimum, not including proficiency) ..... 135
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-1000 Foundations of Social Science .....  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 ..... $\ldots 3$
Total ..... 35
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
Total ..... 33
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 .....
NSG-3090 Public Health Nursing .....  6
NSG-3110 Pharmacology .....  3
NSG-3150 Concepts in Gerontological Nursing .....  .2
Total ..... 37
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
Total ..... 32

## 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:
ANTH-1800 Cultural Anthropology ...................................... 3
BEPH-2260 Religion and Culture ........................................ 3
BEPT-2400 Personal Evangelism ....................................... 3
NSG-2200 Cross-Cultural Interactions .............................. 1
NSG-3200 Cross-Cultural Nursing Internship ................ 1-3
NSG-4200 Culture and Health ............................................. 3
NSG-4800 Independent Study ......................................... 1-2

## Course Descriptions

## NSG-1010 Member of Nursing Profession I <br> 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
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 fivedimensional nursing model. (Fee: \$100)

## NSG-2010 Member of Nursing Profession II

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
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

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
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; NSG2020 Provider of Nursing Care II; NSG-3020 Provider of Nursing Care III (or corequisite) NSG-3110 Pharmocology (or corequisite). (Fee: \$100)

NSG-3020 Provider of Nursing Care III
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)
NSG-3050 Nursing in Relationships
Introduces aspects of developing therapeutic relationships involving one-to-one and group interactions to achieve clientfocused 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 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: NSG2010 Member of Nursing Profession II; NSG-2020 Provider of Nursing Care II; admission to clinical nursing courses; or permission of instructor.


Nursing students build relationships and gain valuable experience by working with patients of all ages.

## NSG-3080 Concepts in Medical-Surgical Nursing

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

## 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-3070 Nursing Care of Diverse Populations or permission of instructor. (Fee: \$100)

## NSG-3110 Pharmacology

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; or permission of instructor.

NSG-3150 Concepts in Gerontological Nursing
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 Cross-Cultural Nursing Internship
1-3 hours
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: NSG3080 Concepts in Medical-Surgical Nursing; permission of instructor.

## NSG-4010 Adult/Child Health Nursing

14 hours
Focus is on common physiological imbalances of adults and children and the nursing care required to restore or promote health balance across 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)


[^7]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: NSG4010 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

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

1-3 hours
Independent learning to secure an extensive background in a specialized area of nursing. May be repeated once. Prerequisite: signed contract between student and instructor in which work to be completed is described.

## NSG-4830 Theory in Nursing <br> 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 or permission of instructor.

## NSG-4930 Nursing Research

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; PYCH-2610 Statistics.

## NSG-4950 Seminar in Nursing

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 or permission of instructor.


The caring nature of nursing is characterized by a sensitive, compassionate approach that recognizes and respects the uniqueness and worth of individuals.

## Purpose Statement

The 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:
- Child and 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 course work 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.


Dr. Michael Firmin 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


Dr. Chi-en Hwang helps students understand how using psychological tests helps with developmental needs.


Psychology senior, Aaron Vaughn, presented research sponsored by Dr. Firmin and Dr. Hwang at the Mid-American Undergraduate Research Conference, which helped earn him a full scholarship for doctoral studies at Purdue University.

## 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.
Robert Abbas, Professor 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.
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 Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.
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 lowa, 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); Clinical Member, American Association of Marriage and Family Therapists (AAMFT). At Cedarville since 2001.
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 Psychology1
PYCH-1600 General Psychology ..... 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
Select one human development elective from the following: PYCH-2700 Child Development ..... 3
PYCH-3700 Adolescent Development. ..... 3
PYCH-3710 Adult Development and Aging ..... 3
*Capstone Course
Psychology Major Curriculum Summary
Proficiency Requirements ..... 0-5
Psychology Major Requirements ..... 40
Other General Education Requirements ..... 46-54
Electives ..... 42
Total (minimum, not including proficiency) ..... 128


Professors such as Dr. Luke Tse prepare students for successful human service careers in secular environments as well as biblical counseling in ministry settings.

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Psychology <br> 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-1000 Foundations of Social Science .....  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
Total ..... 34
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-2700, 3700, or 3710 Human Development Elective .....  3
Humanities/Global Awareness Elective ..... 3
Literature Elective .....  3
Electives ..... 6
Total ..... 30
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
Total ..... 30
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
Total ..... 34,

## 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.
Psychology core requirements ..... 37
PYCH-1000 Orientation to Psychology ..... 1
PYCH-1600 General Psychology ..... 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
Select one human development elective (that is not required in the chosen emphasis) from the following:PYCH-2700 Child Development3
PYCH-3700 Adolescent Development ..... 3
PYCH-3710 Adult Development and Aging ..... 3
The child and family studies emphasis focuses on thedevelopment of traits that are commonly found in a healthyfamily. Healthy emotional and spiritual dimensions are empha-sized along with the analysis of factors that lead to dysfunctionalbehavior and inadequate spiritual development. Courserequirements include:
3
PYCH-2700 Child Development
3
3
PYCH-2750 The Parent and the Child
PYCH-3700 Adolescent Development ..... 3
PYCH-4700 Behavioral Problems in Children ..... 3
*PYCH-4990 Internship in Child and Family Studies ..... 3
Elective hours in psychology ..... 8
The counseling emphasis stresses relational skills, healthygrowth, rational planning, and decision making involved inhelping people of all ages who have personal, social, or spiritualconcerns. Course requirements include:
PYCH-3630 Testing and Measurement ..... 3
PYCH-3670 Group Dynamics ..... 3
PYCH-3710 Adult Development and Aging ..... 3
PYCH-4400 Counseling Skills .....  3
*PYCH-4990 Psychology Internship in Counseling ..... 3
Elective hours in psychology ..... 8
*Capstone Course
Applied Psychology Major Curriculum SummaryProficiency Requirements0-5
Other General Education Requirements ..... 46-54
Applied Psychology Requirements ..... 60
Electives ..... 22
Total (minimum, not including proficiency) ..... 128

Requirements is found on page 18

## 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-1000 Foundations of Social Science ..... 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
Total ..... 34
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-2700, 3700, or 3710 Human Development Elective ..... 3
Humanities/Global Awareness Elective ..... 3
Literature Elective ..... 3
Electives ..... 6
Total ..... 30
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
Total ..... 30
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
Total ..... 34

## Minor

The minor in psychology helps students who find that additional course work in psychology will support their major field of study. In particular, understanding people, 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
Electives in psychology .................................................... 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 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-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
Focus upon etiology, symptomatology, and prognosis of psychological disturbance. Prerequisite: PYCH-1600 General Psychology.
PYCH-2700 Child Development-Fa,Sp 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-Sp
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-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-2850 Psychology of Adjustment
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-3380 Health Psychology

3 hours
Designed to investigate the research and theory of many disciplines to understand how psychology and health are interconnected. The focus is on the major topics and problem areas in health psychology. (Fee: \$5)
PYCH-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 Industrial/Organizational Psychology 3 hours

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

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.
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-Fa,Sp
3 hours
Group processes in a variety of group settings are the focus as this course explores the interaction of individuals and groups. Each student participates in a growth group as part of the course.
PYCH-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-Fa
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-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-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 selfassessment 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-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.

## 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)


Human service and people-helping comprise a significant focus of the psychology major.

## Purpose Statement

The Department of Science and Mathematics offers curricula in biology, chemistry, computer science, 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.

## Department Requirements

## Programs of Study

The Department of Science and Mathematics offers the following programs of study:
Bachelor of Arts (B.A.) with majors in:

- Biology
- Chemistry
- Integrated Life Science Education
- Integrated Mathematics Education
- Integrated Physical Science Education
- Integrated Physics Education
- Integrated Science Education
- Mathematics
- Physics

Bachelor of Science (B.S.) with majors in:

- Biology
- Computer Science
- Chemistry
- Mathematics

Minors in:

- Biology
- Earth Science
- Chemistry
- Mathematics
- Computer Science
- Physics


## Special programs:

- Environmental Biology
- Prepharmacy
- Medical Technology
- Prephysical Therapy
- Preagriculture
- Premedical (pre-health professions)


## Co-Curricular Opportunities

- Chi Theta Pi (pre-health professions organization)
- Earth Stewardship Organization
- Emergency Medical Services Squad
- Math Club
- ASME computing competition


## Technical Resources

- Molecular Modeling - Maple 8ä

Software

- RASMOLä
- Laboratory simulations
- Chem Sketchä
- Biology and chemistry
- TeXä laboratory support
- MicroCalc 7.0ä
- Statistical Analysis Tools • DPGraph 2000ä
- A.D.A.M. Interactive
- Sigma Plotä Anatomyä


## 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
- College professor
- Computer scientist
- Environmental scientist
- Environmental
toxicologist
- Health professional
- Laboratory technician
- Mathematician
- Pharmacist
- Physical therapist
- Physicist
- Physician
- Researcher
- Software engineer
- Software programmer
- Statistician
- Teacher
- 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.

David M. Gallagher, Associate 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.
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, NASALewis 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. 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, 2001present.
Mark McClain, Associate Professor of Chemistry. Education: B.A., Cedarville University, 1989; Ph.D, University of Michigan, 1994; Postdoctoral Fellow, Sandia National Laboratories, 199496; 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, Assistant Professor of Mathematics. Education: B.S., Southhampton University, England, 1979; M.Ed., University of South Carolina, 1988; M.A., University of Kentucky, 1992; Ph.D., University of Kentucky, 1995. At Cedarville 1995-97, 2000present.
Alicia Schaffner, Assistant 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. 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.
John Silvius, 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. 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.
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.
Karl M. Napekoski, Biology Laboratory Instructor. Education: B.S., Cedarville University, 2004.

## Science and Mathematics

## School of Engineering, Nursing, and Science

## 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:Biology Core Requirements36
BIO-1110 Introduction to Biology ..... 4
BIO-1120 General Zoology ..... 4
BIO-2130 General Botany and Ecology ..... 5
BIO-2250 Cell Biology ..... 4
BIO-3300 Genetics ..... 4
BIO-3710 Biochemistry ..... 4
*BIO-4800 Senior Seminar-Biology ..... 1
Biology electives ..... 10
Departmental requirements ..... 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
Total (minimum, not including proficiency) ..... 128

Students preparing for medicine, dentistry, osteopathy, or any of the health professions should refer to page 176 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 Professor of Biology, Dr. John Silvius.

## A complete description of the General Education

 Requirements is found on page 18
## 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
Total ..... 31
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature .....  3
BIO-2130 General Botany and Ecology ..... 5
BIO-2250 Cell Biology ..... 4
CHEM-3510 Organic Chemistry I .....  5
COM-1100 Fundamentals of Speech ..... 3
GSS-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
Literature Elective ..... 3
Total ..... 32
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
Total ..... 33
Fourth year:
BIO-4800 Senior Seminar-Biology ..... 1
Biology Elective ..... 3
History Elective ..... 3
Social Science/Global Awareness Elective ..... 3
Electives ..... 22
Total ..... 32

## Science and Mathematics

## 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 80 hours including:
Biology Requirements44
BIO-1110 Introduction to Biology ..... 4
BIO-1120 General Zoology ..... 4
BIO-2130 General Botany and Ecology ..... 5
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
Departmental Requirements ..... 36
CHEM-1110, 1120 General Chemistry I, II .....  8
CHEM-3510, 3520 Organic Chemistry I, II ..... 10
MATH-1710, 1720 Calculus I, II ..... 10
PHYS-2110, 2120 General Physics I, II .....  8
*Capstone Course
Biology Major (B.S.) Curriculum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 42
Biology Major Requirements ..... 80
Electives .....  6
Total (minimum, not including proficiency) ..... 128

Students interested in careers in environmental biology should refer to page 175 for the requirements of that special program.

Students preparing for medicine, dentistry, osteopathy, or any of the health professions should refer to page 176 for a list of courses generally recommended for admission to professional colleges.


Cedarville's rigorous academic programs prepare students for the career or graduate program of choice.

A complete description of the General Education Requirements is found on page 18

## 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
Total ..... 33
Second year:
BIO-2130 General Botany and Ecology ..... 5
BIO-2250 Cell Biology ..... 4
CHEM-3510, 3520 Organic Chemistry I, II ..... 10
MATH-1710, 1720 Calculus I, II ..... 10
History Elective ..... 3
Total ..... 32
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-1000 Foundations of Social Science ..... 3
PHYS-2110, 2120 General Physics I, II ..... 8
Biology Electives ..... 4
Total ..... 31
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 ..... 6
Total ..... 32

## Science and Mathematics

## 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:
Chemistry Requirements
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
Departmental Requirements ..... 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.A.) Curriculum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 42-50
Chemistry Major Requirements ..... 52.5
Electives ..... 25.5-34
Total (minimum, not including proficiency) ..... 128

Students anticipating graduate study should consider completing the Bachelor of Science in chemistry curriculum.

Students preparing for medicine, dentistry, osteopathy, or any of the health professions should refer to page 176 for a list of courses generally recommended for admission to professional colleges.

## A complete description of the General Education

 Requirements is found on page 18
## 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
Total ..... 32
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-1000 Foundations of Social Science ..... 3
HUM-1400 Introduction to the Humanities ..... 3
PHYS-2110, 2120 General Physics I, II ..... 8
Literature Elective ..... 3
Electives ..... 5
Total ..... 32
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
Total ..... 32.5
Fourth year:
CHEM-4800 Senior Seminar-Chemistry ..... 1
Chemistry Electives ..... 4
History Elective ..... 3
Electives ..... 24
Total ..... 32

## Science and Mathematics

## 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: Chemistry Requirements .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
Departmental Requirements .................................................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


Classes are taught by dedicated Christians who are specialists in their scientific fields.

A complete description of the General Education
Requirements is found on page 18

## 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
Total .......................................................................................... 32
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-1000 Foundations of Social Science ..................................... 3
HUM-1400 Introduction to the Humanities ....................................... 3
PHYS-2110, 2120 General Physics I, II ........................................... 8
Literature Elective .................................................................................... 3
Total ...................................................................................... 33.5
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
Total ......................................................................................... 32
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
Total ...................................................................................... 30.5

## Science and Mathematics

## Computer ScienceBachelor of Science

The computer science major provides coursework and training in computer science. Patterned closely after the curriculum model proposed by the Computer Science Accreditation Board, this major prepares students for careers as software engineers, software programmers, and computer scientists.

Course requirements involve 73.5 semester hours including: Computer Science Core Requirements39
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
Technical Electives chosen from the following: ..... 7
Any 3000- or 4000-level computer science course ..... 1-3
EGCP-3010 Advanced Digital Logic Design ..... 3
EGCP-4110 Comp. Architecture \& Adv. Microprocessors ..... 3
EGCP-4210 Advanced Computer Architecture ..... 3
MATH-3610 Linear Algebra ..... 3
MIS-3000 Systems Analysis and Design ..... 3
MIS-3400 Data Communications and Networking ..... 3
Other courses with pre-approval of department chairMathematics and Science Requirements27.5
CHEM-1050 Chemistry for Engineers ..... 3.5
(or CHEM-1110 General Chemistry I ..... 4)
MATH-1710,1720 Calculus I, II ..... 10
MATH-2510 Discrete Mathematics for Comp. Science .....  3
MATH-3110 Probability and Statistics I .....  3
PHYS-2110, 2120 General Physics I, II .....  8
*Capstone Course
Computer Science Major (B.S.) Curriculum SummaryProficiency Requirements0-6
Other General Education Requirements ..... 45.5-48.5
Computer Science Major Requirements ..... 73.5
Electives ..... 6-9
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Computer Science-B.S.

First year:
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-1000 Foundations of Social Science ..... 3
MATH-1710, 1720 Calculus I, II ..... 10
PEF-1990 Physical Activity and the Christian Life ..... 1
Physical Education Activity Elective ..... 1
Total ..... 32
Second year:
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
Total ..... 32.5
Third year:
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
Total ..... 31.5
Fourth year:
CS-4810, 4820 Software Engineering I, II ..... 7
CS Technical Elective ..... 9
EGGN-3110 Professional Ethics ..... 3
MATH-3550 Discrete Mathematics: Graph Theory ..... 3
Social Science/Global Awareness Elective ..... 3
Electives ..... 10
Total ..... 32

## Adolescent and Young Adult Licensure Programs

The Department of Science and Mathematics joins with the Department of Education to offer adolescent/young adult licensure programs in the following areas:

- Integrated Life Science
- Integrated Mathematics
- Integrated Physical Science
- Integrated Physics
- Integrated Science (comprehensive)

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:
Teacher Education ..... 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 .....
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 TeacherEducation Program and course descriptions are located in theDepartment of Education section in this catalog.
Integrated Life Science Education-Bachelor of Arts
Course requirements involve 60.5 semester hours includingBiology Core Requirements28
BIO-1110 Introduction to Biology ..... 4
BIO-1120 General Zoology .....
BIO-2130 General Botany and Ecology ..... 5
BIO-2250 Cell Biology ..... 4
BIO-3300 Genetics ..... 4
*BIO-4800 Senior Seminar-Biology ..... 1
Biology Electives chosen from following: ..... 6
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
Physical Science/Mathematics/Science Methods. ..... 32.5
CHEM-1110, 1120 General Chemistry I, II .....
CHEM-3510 Organic Chemistry I ..... 5
CHEM-3710 Biochemistry ..... 4
GSCI-1010 Principles of Earth Science ..... 3.5
GMTH-1030 Precalculus ..... 4
PHYS-1010 College Physics I ..... 5
SCED-3110 Clinical Teaching in Science ..... 1
SCED-3120 Teaching Science ..... 2
Teacher Education ..... 39

## A complete description of the General Education Requirements is found on page 18

Suggested Four-Year Curriculum for aMajor in Integrated 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
Total ..... 32
Second year
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
BIO-2130 General Botany and Ecology ..... 5
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-1000 Foundations of Social Science ..... 3
Total ..... 37
Third year
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration .....  2
BIO-3300 Genetics ..... 4
CHEM-3710 Biochemistry ..... 4
GSCI-1010 Principles of Earth Science ..... 3.5
HUM-1400 Introduction to the Humanities ..... 3
PHYS-1010 College Physics I ..... 5
SCED-3110 Clinical Teaching in Science ..... 1
Biology Electives ..... 6
Literature Elective .....  3
Social Science/Global Awareness Elective
36.5
Total
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 ..... 2
History Elective ..... 3
Total ..... 33-35
*Capstone Course
Integrated Life Science Education Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 39-47
Integrated Life Science Education Major Requirements ..... 60.5
Teacher Education Requirements ..... 39
Total (minimum, not including proficiency) ..... 138.5
Integrated Mathematics Education- Bachelor of ArtsCourse requirements involve 48 semester hours including:Mathematics Core Requirements33
MATH-1710, 1720 Calculus I, II ..... 10
MATH-1990 Beautiful Math Structures and Thinking ..... 3
MATH-2210 Logic and Methods of Proof ..... 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 Geomety ..... 3
**MATH-4800 Capstone Experience in Mathematics .....  3
One course from the following: ..... 3
MATH-3550 Discrete Mathematics: Graph Theory ..... 3
MATH-3560 Discrete Mathematics: Combinatorics ..Physics/Computer/Math Methods15
PHYS-2110, 2120, 2130 General Physics I, II, III ..... 10
MTED-3110 Clinical Teaching in Mathematics ..... 1
MTED-3120 Teaching Mathematics ..... 1
Three credits from the following: .....  3
CS-1210 C++ Programming ..... 2
MATH-2800 LaTeX for Technical Documents .....  1
MIS-2000 Structured Programming ..... 3
Teacher Education ..... 39
*A student may replace MATH-3050 by taking MATH-3500,MATH-3610, and MATH-4610.**Capstone Course
Integrated Mathematics Education SummaryProficiency Requirements0-5
Other General Education Requirements ..... 42.5-50.5
Integrated Mathematics Education Major Requirements ..... 48
Teacher Education Requirements ..... 39
Total (minimum, not including proficiency) ..... 129.5


[^8] learning and spiritual growth.

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Integrated Mathematics Education-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
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 Techincal Documents (computer elective) ..... 1PEF-1990 Physical Activity and the Christian Life
Physical Education Activity Elective ..... 1
Total ..... 32.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
CS-1210 C++ Programming (computer elective) ..... 2
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-1000 Foundations of Social Science ..... 3
MATH-2210 Logic and Methods of Proof ..... 3
MATH-3800 Research Methods in Mathematics ..... 10
PHYS-2110, 2120, 2130 General Physics I, II, III ..... 10
Total ..... 33
Third year:
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-3050 Algebraic Structures for Secondary Education ..... 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
Literature Elective ..... 3
Social Science/Global Awareness Elective ..... 3
Total ..... 30
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
EDSP-4000 Principles of Inclusion ..... 1
EDUC-4500 Philosophy of Education .....  2
MATH-4800 Capstone Experience in Mathematics ..... 3
MTED-3120 Teaching Mathematics ..... 1
History Elective ..... 3
Total ..... 34
Integrated Physical Science
Education-Bachelor of Arts
Course requirements involve 71 semester hours including:Integrated Physical Science Core66
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 I ..... 3
SCED-3110 Clinical Teaching in Science ..... 1
SCED-3120 Teaching Science ..... 2
Physics Electives selected from: ..... 3
2
PHYS-3110 Intermediate Physics Lab
PHYS-3310 Theoretical Mechanics .....  3
PHYS-3350 Thermal Physics ..... 3
PHYS-4110 Advanced Physics Lab ..... 2
PHYS-4510 Modern Physics II ..... 3
Research Methods (choose one) ..... 1
CHEM-2800 Introduction to Research in Chemistry ..... 1
PHYS-3800 Research Methods in Physics ..... 1
Senior Capstone Experience (choose one)1
*CHEM-4800 Senior Seminar-Chemistry ..... 1
*PHYS-4800 Senior Seminar-Physics ..... 1
Teacher Education ..... 39
*Capstone Course
Integrated Physical Science Education Curriculum Summary Proficiency Requirements0-5
Other General Education Requirements ..... 39-47
Integrated Physical Science Education Major Requirements ..... 71
Teacher Education Requirements ..... 39
Total (minimum, not including proficiency) ..... 149


A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Integrated Physical Science Education

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
Total ........................................................................................... 37

## 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 .................................................... 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
ESCI-2310 Introduction to Oceanography ...................................... 4
GSS-1000 Foundations of Social Science ...................................... 3
MATH-2740 Differential Equations ................................................................. 3
PHYS-2120, 2130 General Physics II, III ......................................... 6
Total ............................................................................................................ 41

## 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 I ........................................................ 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
Total .......................................................................................... 36
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-3110 Clinical Teaching in Physics .............................................. 1
SCED-3120 Teaching Science ...................................................... 2
Physics Elective ............................................................................ 3
Total ....................................................................................34-36

[^9]instructional field trips with professors.

## Science and Mathematics

Integrated Physics Education- Bachelor of ArtsCourse requirements involve 68 semester hours including:Physics Core Requirements
PHYS-2110, 2120, 2130 General Physics I, II, III ..... 1034
PHYS-3110 Intermediate Physics Lab ..... 2
PHYS-3310 Theoretical Mechanics
PHYS-3410 Electromagnetic Theory ..... 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
Physics Electives selected from: ..... 9
PHYS-3350 Thermal Physics .....  3
PHYS-4210 Mathematical Methods of Physics ..... 3
PHYS-4410 Electromagnetic Theory II .....  3
PHYS-4450 Optics ..... 3
PHYS-4510 Modern Physics II ..... 3
*PHYS-4880 Topics in Physics ..... 1-3
Departmental Requirements ..... 34
BIO-1000 Principles of Biology ..... 3.5
CHEM-1110, 1120 General Chemistry I, I ..... 8
GSCI-1010 Principles of Earth Science ..... 3.5
MATH-1710, 1720, 2710 Calculus I, II, III ..... 13
MATH-2740 Differential Equations ..... 3
SCED-3110 Clinical Teaching in Science ..... 1
SCED-3120 Teaching Science ..... 2
Teacher Education ..... 39
*Capstone Course
Integrated Physics Education Curriculum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 39-47
Integrated Physics Education Major Requirements ..... 68
Teacher Education Requirements ..... 39
Total (minimum, not including proficiency) ..... 146


Modern laboratories with extensive equipment resources are invaluable tools in the learning process.

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Integrated Physics Education

## 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
Total ..... 37
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
BIO-1000 Principles of Biology ..... 3.5
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
GSS-1000 Foundations of Social Science ..... 3
MATH-2710 Calculus III .....  3
MATH-2740 Differential Equations ..... 3
PHYS-2120, 2130 General Physics II, III ..... 6
Physics Elective ..... 3
Total ..... 38.5
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/Global Awareness Elective .....  3
Total ..... 34.5
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-3110 Clinical Teaching in Physics ..... 1
SCED-3120 Teaching Science ..... 2
Total ..... 36-38

# Science and Mathematics 

## Integrated Science EducationBachelor of Arts

Course requirements involve 71 semester hours including: Biology Core20
BIO-1110 Introduction to Biology ..... 4
BIO-1120 General Zoology ..... 4
BIO-2130 General Botany and Ecology ..... 5
BIO-3300 Genetics ..... 4
One Biology Elective chosen from the following: .....  3
BIO-3410 Invertebrate Zoology ..... 3
BIO-3450 Human Structure and Function ..... 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
Physical Science/Mathematics/Science Methods ..... 51
*BIO-4800 Senior Seminar-Biology ..... 1
CHEM-1110, 1120 General Chemistry I, II ..... 8
CHEM-3510 Organic Chemistry I ..... 5
CHEM-3710 Biochemistry .....
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-3110 Clinical Teaching in Science ..... 1
SCED-3120 Teaching Science ..... 2
Teacher Education ..... 39
*Capstone Course
Integrated Science Education Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 39-47
Integrated Science Education Major Requirements ..... 71
Teacher Education Requirements ..... 39
Total (minimum, not including proficiency) ..... 149


The Engineering, Nursing, Science Center provides an excellent facility to enhance the student's ability for gaining knowledge of the sciences and mathematics.

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a Major in Integrated 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
ESCI-1010 Introduction to Physical Geology ..... 4
GMTH-1030 Precalculus ..... 4
PEF-1990 Physical Activity and the Christian Life ..... 1
Physical Education Activity Elective ..... 1
Total ..... 36
Second year
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
BIO-2130 General Botany and Ecology ..... 5
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
GSS-1000 Foundations of Social Science .....  3
Total ..... 37-39
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
SCED-3110 Clinical Teaching in Science ..... 1
Biological Science Elective ..... 3
Literature Elective .....  3
Total ..... 40
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 ..... 2
History Elective .....  3
Social Science/Global Awareness Elective ..... 3
Total ..... 36-38

6-38

## 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 53 semester hours including: Mathematics Core Requirements .............................................. 41
CS-1210 C++ Programming.............................................. 2
MATH-1990 Beautiful Math Structures and Thinking .......... 3
MATH-1710, 1720, 2710 Calculus I, II, III .......................... 13
MATH-2210 Logic and Methods of Proof ............................ 3
MATH-2740 Differential Equations ...................................... 3
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
Electives (meeting the following criteria)
Applied courses (at least three (3) hours from the following applied courses)
EGME-2050 Computational Methods ................................. 4
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-4210 Mathematical Methods for Physicists ............. 3
*MATH-4880 Topics in Mathematics ................................ 1-3
MATH-4900 Independent Study in Mathematics ............... 1-3
Theoretical Courses (at least three (3) hours from the following
theoretical courses) .................................................................. 3-
MATH-3500 Number Theory .............................................. 3
MATH-3550 Discrete Mathematics: Graph Theory ............. 3
MATH-3560 Discrete Mathematics: Combinations ............ 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
Other General Education Requirements ..... 45.5-53.5
Mathematics Major Requirements ..... 53
Electives ..... 21.5-29.5
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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
PEF-1990 Physical Activity and the Christian Life ..... 1
Physical Education Activity Elective .....  1
Total ..... 32
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
GSS-1000 Foundations of Social Science ..... 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
Total ..... 33
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
Mathematics Electives ..... 6
Humanities Elective .....  3
Social Science/Global Awareness Elective ..... 3
Electives ..... 9
Total ..... 33.5
Fourth year:
MATH-4800 Capstone Experience in Mathematics ..... 3
History Elective ..... 3
Mathematics Electives .....  6
Electives ..... 18
Total ..... 30

## Science and Mathematics

## 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 68 hours:
Mathematics Core Requirements47
CS-1210 C++ Programming ..... 2
MATH-1990 Beautiful Math Structures and Thinking ..... 3
MATH-1710, 1720, 2710 Calculus I, II, III ..... 13
MATH-2210 Logic and Methods of Proof ..... 3
MATH-2740 Differential Equations ..... 3
MATH-3610 Linear Algebra ..... 3
MATH-3800 Research Methods ..... 1
MATH-4710 Real Variables I ..... 3
MATH- 4610 Abstract Algebra I ..... 3
*MATH-4800 Capstone Experience in Mathematics ..... 3
PHYS-2110, 2120, 2130 General Physics I, II, III ..... 10
Electives (meeting the following criteria) ..... 21
Applied courses (at least six (6) hours from the following appliedcourses)6-15
EGME-2050 Computational Methods ..... 4
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-4210 Mathematical Methods for Physicists .....  3
MATH-4880 Topics in Mathematics ..... 1-3
MATH-4900 Independent Study in Mathematics ..... 1-3
Theoretical Courses (at least six (6) hours from the followingtheoretical courses)6-15
MATH-3500 Number Theory ..... 3
MATH-3550 Discrete Mathematics: Graph Theory ..... 3
MATH-3560 Discrete Mathematics: Combinations ..... 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 ..... 6
MATH-4720 Real Variables II ..... 6
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 ..... 68
Electives ..... 14.5
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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-1210C++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
PEF-1990 Physical Activity and the Christian Life .......................... 1
Physical Education Activity Elective .............................................. 1
Total ......................................................................................... 32
Second year:
BEGE-2730 Old Testament Literature ............................................. 3
BEGE-2740 New Testament Literature ........................................... 3
GSS-1000 Foundations of Social Science ..................................... 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
Total ......................................................................................... 33
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
Total ....................................................................................... 30.5

## Fourth year:

MATH-4800 Capstone Experience in Mathematics ........................ 3
History Elective ............................................................................. 3
Mathematics Electives ................................................................. 15
Social Science/Global Awareness Elective .................................. 3
Electives ...................................................................................... 9
Total ......................................................................................... 33

## Science and Mathematics

## School of Engineering, Nursing, and Science

## 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 graduatelevel physics programs in the nation.
Students should include courses in mathematics and chemistry as general electives.
Course requirements involve 53.5 semester hours: Physics Core Requirements34
PHYS-2110, 2120, 2130 General Physics I, II, III ..... 10
PHYS-3110 Intermediate Physics Lab ..... 2
PHYS-3310 Theoretical Mechanics ..... 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
Physics Electives (3 courses) chosen from the following ..... 9
PHYS-3350 Thermal Physics ..... 3
PHYS-4210 Mathematical Methods of Physics ..... 3
PHYS-4410 Electromagnetic Theory II ..... 3
PHYS-4450 Optics ..... 3
PHYS-4510 Modern Physics II ..... 3
PHYS-4880 Topics in Physics ..... 1-3
Departmental Requirements ..... 19.5
CHEM-1050 Chemistry for Engineers ..... 3.5
MATH-1710, 1720, 2710 Calculus I, II, III ..... 13
MATH-2740 Differential Equations ..... 3
*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
Total (minimum, not including proficiency) ..... 128


Professors lead students to a greater depth of knowledge and understanding of God's creation and man's relationship to it.

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
Total ..... 31.5
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
BIO-1000 Principles of Biology ..... 3.5
GSS-1000 Foundations of Social Science ..... 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
Total ..... 32.5
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
Total ..... 31
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
Total ..... 33

## 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.
Course requirements for the biology minor involve 19 semester hours including:
BIO-1110 Introduction to Biology......................................... 4
BIO-1120 General Zoology ................................................. 4
BIO-2130 General Botany and Ecology .............................. 5
Biology Electives ................................................................. 6
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
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

Course requirements for the mathematics minor involve 19 semester hours including:
MATH-1710, 1720 Calculus I, II 10
Mathematics Electives selected from the following: ........... 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
Course requirements for the physics minor involve 16 semester hours including:
PHYS-2110, 2120, 2130 General Physics I, II, III.............. 10
PHYS-3510 Modern Physics I ............................................ 3
Physics Electives ................................................................. 3
Course requirements for the computer science minor involve 27 semester hours including:
CS-1210 C++ Programming2
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
Electives (choose one from the following) ..... 3
EGEE-3370 Probability and Random Processes ..... 3
MATH-3110 Probability and Statistics I ..... 3

## Special Programs

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:
*Electives selected from the following:....................................... 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 university Department of Education. 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.


Cedarville professors strive to integrate a biblical perspective in every class.

## Science and Mathematics

## School of Engineering, Nursing, and Science

The preagriculture curriculum is designed to satisfy the technical and nontechnical 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-1000 Foundations of Social Science ......................... 3
HUM-1400 Introduction to the Humanities ......................... 3
The agriculture business emphasis prepares students for careers in the industry and business phases of agriculture.
Course requirements include:
Two courses (selected from): ............................................ 10
ACCT-2110 Principles of Accounting ......................... 3
BIO-1120 General Zoology ........................................ 4
BIO-2130 General Botany and Ecology ....................... 5
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
The agriculture science emphasis prepares students for careers including agronomy, animal science, food science, and horticulture.
Course requirements include:
BIO-1120 General Zoology4
BIO-2130 General Botany and Ecology ..... 5
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

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.

## Predental, Premedical, Preoptometric, Preosteopathic, and Preveterinary 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 Vertebrate Embryology ................................. 3)
BIO-3450, 3460 Human Structure and Function I, II........... 7
BIO-4710 Principles of Bioethics ......................................... 3
(or BIO-3770 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 1000 hours or more of direct health care experience. Specific requirements vary from one program to another.

## Prepharmacy

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-3770 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 are introduced to 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. Laboratory emphasizes quantitative skills. 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. Time will be spent in the discussion of various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and 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. No prerequisites. (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. Discussion will occur on the evidence and merits of conflicting viewpoints. 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 of discussion 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 3 times per week, and one laboratory per week. This course satisfies the physical science requirement of the General Education Requirements. No prerequisites. (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, and 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: BIO1000 Principles of Biology.
GMTH-1010 Introduction to Mathematics-Fa,Sp 3 hours
Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. Prerequisite: proficiency in mathematics.

## GMTH-1020 College Algebra-Fa

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 possibly 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; GMTH1020 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 will include field trips to areas of local geological interest. 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-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-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 the Creator'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

## 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. 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. There will be an emphasis on the intricate design and resilience of God's creation. 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 1 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. Topics include kinematics, motion in two dimensions, force 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

Basic concepts of electricity and modern physics. 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-3110 Clinical Teaching in Science-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.
SCED-3120 Teaching Science-Fa
2 hours
Designed to introduce 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 50-minute lectures and two two-hour labs per week. Prerequisite: BIO-1110 Introduction to Biology. (Fee: \$100)
BIO-2130 General Botany and Ecology-Fa 5 hours
A study of the autotrophs, their fundamental role in aquatic and terrestrial ecosystems, and their anatomy and physiology with emphasis on the vascular plants. Investigations of ecosystem level processes and field botany will be conducted in early autumn, followed by the anatomy and physiology of autotrophs after mid-semester. Four lectures and one 3-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology. (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 in the laboratory. Two lectures and two two-hour laboratories per week. Pre-requisite: CHEM-1000 Principles of Chemistry; CHEM1010 Principles of Biochemistry or equivalent. (Fee: \$100)

## BIO-3300 Genetics-Fa

4 hours
This is an integrative course of the areas of genetics: classical and molecular. Focus will be on the principles of heredity in prokaryotic and eukaryotic organisms, which includes the understanding of transmission genetics on a molecular level.

There will be emphasis on the molecular nature of genes, including gene expression, mutations, and manipulation of DNA. Three lectures and one 3-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-Fa

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: BIO2130 General Botany and 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 3-hour laboratory per week. Includes a travel study opportunity during Spring break. Prerequisite: BIO-2130 General Botany and 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 twenty Cedarville-approved Au Sable courses are available in the Au Sable Institute Bulletin available from the department Au Sable representative or at the Au Sable website. Enrollment begins when the student contacts the departmental Au Sable representative. Appropriate course titles will appear in the student's transcript with letter grades when the studies are completed. More information on Au Sable Institute is printed in the university catalog. 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-2130 General Botany and Ecology. (Fee: \$100)

## BIO-3710 Biochemistry-Sp

A study of the chemical and physical properties of living organisms' macromolecules such as proteins, carbohydrates, lipids, and nucleic acids as well as the integration of metabolic pathways. Three lectures and one 3-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I. (Fee: \$100)
BIO-3770 Pathophysiology-Sp
3 hours
Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. Pre-or Corequisite: BIO-3460 Human Structure and Function II
BIO-3800 Biological Research-Fa, Sp
2 hours
Student will undertake an original research project under the direction of a departmental faculty mentor, or an 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; BIO-2800 Introduction to Research Methods. (Fee: \$150)
BIO-4210 Advanced Cell Biology-Fa
4 hours
In-depth study of the cell will include the following topics: normal cell physiology and division, differentiation, basic signaling pathways and programmed cell death. Some study of cell pathogenesis, aberrant signaling mechanisms, and other elective topics of current agricultural or biomedical interest may be included. Three lectures and one 3-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2130 General Botany and Ecology; BIO2250 Cell Biology; BIO-3300 Genetics. (Fee \$100) (even years) BIO-4220 Signal Transduction-Fa
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 3 hour laboratory per week. Prerequisites: BIO1110 Introduction to Biology; BIO-1120 General Zoology; BIO2130 General Botany and 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)


Full-time professors, rather than teaching assistants, work closely with students during laboratory sessions.

BIO-4350 Immunology-Sp 3 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 Vertebrate Embryology-Fa
This course is a systematic study of the mechanisms that guide vertebrate development from a single cell to a multicellular organism. Morphological studies emphasize embryonic stages in selected vertebrates, including amphibians, birds, and mammals. Prerequisite: BIO-1120 General Zoology. (Fee: \$100) (odd years)
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-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-2130 General Botany and 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-2130 General Botany and 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 2130 General Botany and Ecology; permission of instructor. (Fee: \$25)

## Chemistry

CHEM-1110 General Chemistry L-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
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 include application of visible light spectroscopy. Many of the 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 electroanalytical 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-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-3710 Biochemistry-Sp
4 Hours
A study of the chemical and physical properties of living organisms' macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, as well as the integration of metabolic pathways. Three lectures and one three-hour laboratory per week. Pre-requisites: BIO-1110 Introduction to Biology; CHEM3510 Organic Chemistry I. (Fee: \$100)


Well-equipped chemistry labs enhance the student's ability to interpret laboratory findings and data.

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
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
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 phenomenon. 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.

## ComputerScience

CS-1210 C++ Programming-Fa,Sp
2 hours
This course will introduce students to computer programming using the C++ programming language. The course will introduce software engineering principles, structured program design and implementation, and object-oriented design. Students will become familiar with compiling programs in both the Unix and Windows operating systems. (Fee: \$50)
CS-1220 Object-Oriented Design Using C++-Fa,Sp 3 hours
Builds upon the C++ programming skills developed in CS-
1210, introducing students to the object paradigm and the basics of software engineering. Students will apply the principles of object-oriented design on programming tasks in both the Unix and Windows environments. Intended as the second programming course for CS majors. Prerequisite: CS1210 C++ Programming. (Fee: \$50)
CS-2210 Data Structures Using Java-Fa, Sp 3 hours
This course will introduce students to the proper use of data structures for developing efficient software. Data structures will include stacks, queues, priority queues, trees, and graphs Students will also develop skill in object-oriented design and Java programming. Prerequisite: CS-1220 Object-Oriented Design Using C++. (Fee: \$50)
CS-3210 Programming Language Survey-Sp 3 hours
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 as well as contemporary design issues, such as threads, real-time systems, multiprocessor scheduling, distributed systems, security, and object-oriented design. Course content is developed through the use of 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
This course will introduce students to classic algorithms that have been developed and shown to have broad application in solving computer science problems. It will begin with a look at
the analysis of algorithms and then survey numerous useful algorithms and advanced data structures. The course will also cover special topics such as numeric methods and NPcompleteness. 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
This course will introduce students to the technology underlying modern compilers and will emphasize both the theory upon which compilers are based and a practical understanding of how to actually implement a compiler. The course will provide an excellent application for the object-oriented design and data structures skills learned in earlier courses. It will typically require a major project involving the development of an actual compiler. Prerequisite: CS-3410 Algorithms. (Fee: \$50)(even years)
CS-3610 Database Organization and Design-Sp
3 hours
Addresses the analysis, design, and implementation of relational database applications. The Structured Query Language (SQL) is covered in depth, along with standard problem domain and data modeling techniques. Implementation techniques and considerations are discussed and practiced extensively. Key concepts include analysis and design using a standard notation such as Unified Modeling Language (UML), data model to logical schema conversion techniques, normalization, client-server architectures, and webbased access to database systems. Additional advanced topics include system security transaction processing and data recovery techniques. Design projects focus on implementing key course concepts using state-of-the-art multi-user database software. Prerequisites: CS-2210 Data Structures Using Java; MATH-2510 Discrete Mathematics for Computer Science. (Fee: \$50)
CS-4220 Web Applications-Sp
3 hours
This course will introduce students to the design and development of web-based applications. Students will use tools such as PERL, javascript, JSP, and java servlets. Applications will be developed using both the IIS and Apache servers. Prerequisite: CS-2210 Data Structures Using Java. (Fee: \$50)

## CS-4320 Network Security-Fa

Practical topics in network security, including policy, malicious code, intrusion detection, prevention, response, and cryptographic protocols for privacy and integrity. An emphasis will be on the tradeoffs between risk of misuse, cost of prevention, and societal issues. Course topics will be reinforced through programming assignments. Prerequisite: CS-3310 Operating Systems. (Fee: \$50)
CS-4410 Parallel Computing-Fa 3 hours
An introduction to the exploitation of parallelism to solve computationally intensive problems. The course explores various approaches for achieving parallelism, the architectures required for parallel computing, performance analysis of parallel programs, and the design of parallel algorithms. The course uses common standards for message passing (such as MPI), and makes use of both local clusters and remote supercomputer systems. Prerequisites: CS-3410 Algorithms. (Fee: \$50) (even years)

## CS-4810 Software Engineering 1 Fa

3 hours
Introduction to software engineering principles focusing on software management concepts, software project scheduling, software quality assurance, and software project planning. Students will work in teams to analyze and design a large senior project, that will be completed in CS-4820. Prerequisite: CS3410 Algorithms. (Fee: \$50)
CS-4820 Software Engineering II-Sp
Builds upon the software analysis and design skills learned in Software Engineering I. Focuses on detailed design,
implementation, testing, and maintenance of software projects. Students will complete the senior design project they started in

CS-4810. Prerequisite: CS-4810 Software Engineering. (Fee: \$50)
CS-4880 Topics in Computer Science
1-3 hours
Study of topics of interest from the field of computer science, such as compiler theory, artificial intelligence, parallel computing, robotics, advanced algorithms, and numeric methods. Prerequisite: permission of instructor. (Fee: \$20/hour) CS-4900 Independent Study in Computer Science 1-3 hours Independent research in the various branches of computer science and allied fields of application. Submission and approval of a research proposal must precede registration. Prerequisites: major in computer science; permission of the research instructor. (Fee: \$5/hour)

## 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: MATH1710 Calculus I or equivalent or permission of instructor.


Students spend time in the classroom performing experiments and recording applicable data.

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 and 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,Sp 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; MATH1990 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-Sp
Introduction to differential and integral calculus of several variables, multiple integrals, vector analysis, line integrals, and surface integrals. Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.
MATH-2740 Differential Equations-Fa
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 Techincal Documents-Fa
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 thesies, conference papers, and journal papers. They will also learn how to create professional-looking presentations, homework, quizzes, examinations, syllabi, resumes, and curriculum vitae. Prerequisites: MATH-1720 Calculus II; ENG-1400 Composition. MATH-3050
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 hoursProbability 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-1710 Calculus I; MATH-3610 Linear
Algebra; MATH-3110 Probability and Statistics; or permission of the instructor.

## MATH-3500 Number Theory-Fa

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-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: MATH2210 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 nonparametric 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

## Euclidean and Non-Euclidean Geometry-Sp

Rigorous treatment of the foundations of Euclidean geometry; an introduction to hyperbolic geometry with emphasis on its Euclidean models. Prerequisites: MATH-2210 Logic and Methods of Proof.

## MATH-4450 Topology-Fa

An introduction to elementary point set topology with emphasis on illustrating how the familiar concepts of closed and open intervals, continuity of functions, distances, and various geometrical properties have been generalized from classical mathematics. Topics include: metric spaces, topological space theory, separation axioms, covering properties, compactness, connectedness, metrizability, and complete metric spaces.
Prerequisite: MATH-2210 Logic and Methods of Proof.
(even 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
Introduction to the real number system's algebraic order, completeness, and cardinality properties, the topology of Cartesian spaces $\mathrm{R}^{\mathrm{n}}$ and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and L Prerequisites: MATH1720 Calculus II; MATH-2210 Logic and Methods of Proof. (odd years)
MATH-4800
1 hour
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 1-Fa,Sp 4 hours
Basic concepts of 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. Prerequisite: MATH-1710 Calculus I; MATH1720 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.
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-Sp 2 hours
Basic concepts of heat and thermodynamics and a basic introduction to modern physics, including introductory concepts of relativity and quantum theory. Prerequisites: MATH-1720 Calculus II; PHYS-2120 General Physics II; PHYS-2120 may be co-enrolled with permission of instructor.
PHYS-3110 Intermediate Physics Laboratory-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-Sp
Derivation of the motion of a point object through threedimensional space. Topics include an advanced treatment of Newtonian mechanics in three dimensions, oscillatory motion, accelerated frames of reference, central forces, and an introduction to Lagrangian mechanics. Prerequisites: PHYS2120 General Physics II; MATH-2740 Differential Equations; MATH-2740 may be co-enrolled with permission of instructor. (even 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 I-Fa

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. (even years)
PHYS-3800 Research Methods in Physics-Fa
Designed to reinforce 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: PHYS2130 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: MATH2710 Calculus III; MATH-2740 Differential Equations; 3 hours of a 3000 or 4000 level physics course. (even 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-Sp

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: PHYS2120 General Physics II; MATH-2710 Calculus III. (odd years) PHYS-4510 Modern Physics II-Sp 3 hours Introduction to statistical physics, solid state, superconductivity, nuclear structure, kinetic theory, nuclear physics applications, and particle physics. Prerequisite: PHYS-3510 Modern Physics I. (even 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.

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)

## Purpose Statement

The curriculum of the Department of Social Sciences and History is composed of criminal justice, geography, history, political science, public administration, social work, and sociology.
This department seeks to:

1. Present to students the origin and development of ideas and institutions.
2. Aid students in gaining a better understanding of the world, one that includes a historical and philosophical perspective, spatial awareness, comprehension of political systems, knowledge of man in a socio-cultural context, and study of the nature of an increasingly urban society.
3. Provide students with the prerequisites for responsible civic participation.
4. Expose students to the complexities of the public sector in modern life and the possibilities of careers in local, state, and national government.
5. Acquaint students with a practical appreciation of the methods and tools of original research.
6. Provide students with an opportunity to formulate and express the results of investigation and study.
7. Aid students in developing a refined Christian world and life view through the integration of biblical principles with the subject matter of the academic disciplines.
8. Prepare students to practice as caring believers in a human service profession, such as social work, criminal justice, and public administration with a focus upon diverse socio-cultural settings.
9. Prepare students academically and personally to participate in graduate study.

## Personal Requirements

A solid high school college-preparatory program provides an excellent background for students entering the various majors in the department.

## Department Requirements

Most majors in the department do not stipulate entrance requirements that differ from the admission requirements. The exception is the social work program. Admissions requirements and procedure for that program are listed on page 192 in the catalog.

## Programs of Study

## Majors

Bachelor of Arts (B.A.) with majors in:

- American Studies
- International Studies
- Criminal Justice - Political Science
- History
- History and Political Science
-Prelaw
- Integrated Social Studies
-Public Administration Education
Bachelor of Science (B.S.) with a major in:
- Social Work


## Minors

- Criminal Justice
- History
- Political Science
- Public Administration
- Sociology


## Co-Curricular Opportunities

Each major has several professional organizations in which students may participate. Students can broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.
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.
CU Republican Club is an organization dedicated to the development of Christian leaders in the political arena.
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 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.

## Technical Resources

A large number of computer software programs are available to students, including:

- Word processing programs
- Database programs
- Statistical analysis programs
- Spreadsheet programs
- Web and HTML programs
- A variety of presentation programs
- Various search engines

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
- College professor
- Community developer
- Federal law enforcer
- 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
- Teacher


## 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, Associate 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, Assistant 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. At Cedarville since 2002. Gerson Moreno-Riaño, Assistant Professor of Political Science. Education: B.A., Cedarville University, 1994; M.A., University of Cincinnati, 1998; Ph.D., University of Cincinnati, 1999. At Cedarville since 1999.
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, Associate 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.
Susan Warner, Assistant 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.
Robert Wiggins, Professor of Criminal Justice and Public Administration. 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 since 1992.
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.


Dr. Susan Warner, Assistant Professor of Sociology, brings a wealth of knowledge and research to her classroom.

## American Studies

The American studies major is designed to provide students with an understanding of American culture. Course requirements include 45 semester hours, including 27 hours in core requirements and an additional 18 hours in interdisciplinary electives.

American Studies Core .............................................................. 27
GEO-3510 World Regional Geography-West .................... 3
HIST-1110,1120 United States History............................... 6
HIST-3110 Early American History...................................... 3
(or HIST-3120 History of Recent and Cont. Amer. ........... 3)
HIST-3720 History of Political Philosophy II ....................... 3
*HIST-4000 Research in American History ......................... 3
LIT-3510 Modern American Literature ................................ 3
POLS-2610 American National Government...................... 3
POLS-3650 International Relations ..................................... 3
(or HIST-4050 Great Power Diplomacy............................. 3)
The interdisciplinary electives should be selected from two of the following discipline areas. These electives should be chosen in consultation with the American studies advisor and should reflect the interest of the student.

## 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 Requirements0-6
Other General Education Requirements ..... 46-54
American Studies Major Requirements ..... 45
Electives ..... 29-37
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science .....  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
Total ..... 32
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-2610 American National Government ..... 3
Biological Science Elective ..... 3.5
Global Awareness Elective .....  3
Interdisciplinary Electives ..... 6
Quantitative Elective .....  3
Total ..... 30.5
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration .....  2
GEO-3510 World Regional Geography-West .....  3
HIST/POLS-3720 History of Political Philosophy II .....  3
Humanities Elective ..... 3
Interdisciplinary Electives ..... 12
Physical Science Elective ..... 3.5
Electives .....  4
Total ..... 32.5
Fourth year:
POLS-3650 International Relations ..... 3
(or HIST-4050 Great Power Diplomacy ..... 3)
HIST-4000 Research in American History ..... 3
Electives ..... 27
Total ..... 33

## Criminal Justice

The criminal justice major prepares students for careers in the criminal justice system. Such careers will involve a variety of 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 and requires completion of 54 semester hours in 7 disciplinary areas. Of these hours, 42 consist of required courses and 12 are criminal justice electives.

Criminal Justice Processes .......................................................... 9
${ }^{1}$ CRJU-1310 Introduction to Criminal Justice ..................... 3
${ }^{1}$ CRJU-2310 Juvenile Delinquency ....................................... 3
${ }^{1}$ CRJU-3300 Corrections..................................................... 3
Criminology .................................................................................. 3
${ }^{1}$ CRJU-2200 Criminology .................................................... 3
Law Enforcement ................................................................................................. 6-9
CRJU-3320 Criminal Investigation ...................................... 3
${ }^{1}$ CRJU-3390 Criminal Evidence.......................................... 3
${ }^{1}$ CRJU-4200 Police Administration ...................................... 3
Law/Adjudication
${ }^{1}$ CRJU-3330 Constitutional Law for Criminal Justice ........ 3
${ }^{1}$ CRJU-3350 Criminal Law .................................................. 3
CRJU-3400 Criminal Procedure .......................................... 3
(or CRJU-3410 Civil Liability for Criminal Justice
Personnel .......................................................................... 3)
Analytical Tools ............................................................................. 6
${ }^{1}$ GSS-3610 Data Analysis ..................................................... 3
${ }^{1}$ GSS-3620 Research Methodology .................................... 3
Government and Public Sector Dynamics .................................. 6
POLS-2610 American National Government...................... 3
(or POLS-2620 American State and Local Government ... 3)
${ }^{1}$ PUAD-3600 Public Administration ..................................... 3

Integration ..... 3
${ }^{2}$ CRJU-4600 Research issues in Criminal Justice............ 3
Criminal Justice Electives ...................................................... 9-12
CRJU-4330 Contemporary Issues in Criminal Justice ..... 3
CRJU-4960 Independent Study in Criminal Justice ........ 1-3
${ }^{3}$ GSS-4990 Criminal Justice Internship .........................3-12
(only one internship experience may be counted as credit)
${ }^{1}$ Required course.
${ }^{2}$ Capstone course (required).
${ }^{3} \mathrm{~A}$. Only one internship experience may be used for criminal justice curriculum credit.
B. Students completing a free-standing (not associated with an accredited academic institution) police academy may register for 12 hours of internship credit.
C. Students attending an academy that is associated with an accredited academic institution should register for academic credit at that institution and transfer hours back to Cedarville University. However, credit cannot be granted for the same course twice. (Example: If the academy college grants credit for a course titled Criminal Law and the student has already taken Criminal Law at Cedarville University, credit for only one course will apply toward the student's degree.)

## A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science ..................................... 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
Total ........................................................................................ 32.5
Second year:
BEGE-2730 OId Testament Literature ............................................. 3
BEGE-2740 New Testament Literature ................................................... 3
CRJU-2200 Criminology ................................................................. 3
CRJU-2310 Juvenile Delinquency .................................................. 3
CRJU-3350 Criminal Law .............................................................. 3

(or POLS-2620 American State and Local Government .............. 3)
Global Awareness Elective .......................................................... 3
Humanities Elective ........................................................................ 3
Literature Elective ......................................................................... 3
Physical Science Elective ........................................................... 3.5
Total ....................................................................................... 30.5
Third year:
BEGE-3750 Christian Worldview Development .............................. 2
BEGE-3760 Christian Worldview Integration ................................... 2
CRJU-3300 Corrections .................................................................. 3
CRJU-3320 Criminal Investigation ................................................... 3
CRJU-3330 Constitutional Law for Criminal Justice ........................ 3
GSS-3610 Data Analysis .............................................................. 3
GSS-3620 Research Methodology ................................................... 3
PUAD-3600 Public Administration .................................................. 3
Foreign Language Requirements (if necessary) .................................... 8
Elective ......................................................................................... 3
Total .......................................................................................... 33
Summer:
GSS-4990 CRJU Internship ........................................................... 9
Fourth year:
CRJU-3390 Criminal Evidence ........................................................ 3
CRJU 3400 Criminal Procedure ...................................................... 3
(or CRJU-3410 Civil Liability for Criminal Justice Personnel ......... 3)
CRJU-4200 Police Administration .................................................... 3
CRJU-4600 Research Issues in Criminal Justice ............................. 3
Criminal Justice Electives .............................................................. 9
Electives .................................................................................... 11
Total .......................................................................................... 32

## Criminal Justice Major Curriculum Summary

Proficiency Requirements ....................................................... 0-6
Other General Education Requirements ............................. 49-57
Criminal Justice Major Requirements ....................................... 54
General Electives ................................................................. 17-25
Total (minimum, not including proficiency) .......................... 128

## History

Course requirements involve 35 hours including: HIST-1110, 1120 United States History ............................... 6
HIST-2000 Introduction to History6
HIST-2010, 2020 History of Civilization I,II ..... 6
HIST-3000 Introduction to Historiography ..... 3
*HIST-4000, 4010, or 4020 Research in History ..... 3
Elective hours in history (3000- or 4000-level) ..... 12
Non-Western History Elective (selected from) ..... 3
HIST-3080 Russia and the Soviet Union ..... 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
*Capstone Course
History Major Curriculum Summary
Proficiency Requirements ..... 0-6
Other General Education Requirements ..... 46-54
History Major Requirements ..... 35
Electives ..... 39-47
Total (minimum, not including proficiency) ..... 128
A complete description of the General Education Requirements is found on page 18
Suggested Four-Year Curriculum for a Major in History
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-1000 Foundations of Social Science ..... 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 Chrisian Life ..... 1
Physical Education Activity Elective ..... 1
Electives ..... 3
Total ..... 29
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
HIST-2000 Introduction to History ..... 2
Biology Elective ..... 3.5
Literature Elective ..... 3
Physical Science Elective ..... 3.5
Quantitative Elective ..... 3
Electives ..... 7
Total ..... 34
Third year
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
Total ..... 34
Fourth year:
HIST-4000, 4010, or 4020 Research in American, European
or Asian History ..... 3
History Electives (major requirement) ..... 9
Electives ..... 19
Total ..... 31

## History and Political Science

The history and political science major includes 44-45 semester hours, including 33 hours in core requirements and an additional 11-12 hours in either the history or political science concentrations.
History and Political Science Core ..... 33
HIST-1110, 1120 United States History ..... 6
HIST-2010, 2020 History of Civilization I, II ..... 6
(or HIST-3120 Recent and Contemporary America ..... 3)
HIST-3710 History of Political Philosophy I ..... 3
(or HIST-3720 History of Political Philosophy II ..... 3)
POLS-2610 American National Government ..... 3
POLS-3650 International Relations ..... 3
POLS-4610 Political Dynamics ..... 3
PUAD-3600 Public Administration ..... 3
Non-Western History Elective ..... 3
Choose one from the following concentrations: History Concentration ..... 11
HIST-2000 Introduction to History ..... 2
HIST-3000 Introduction to Historiography ..... 3
Elective hours in history (3000- or 4000-level) ..... 3
Political Science Concentration ..... 12
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
Choose one of the following capstone emphases ..... 6
American Politics
POLS-4570 Seminar in American Politics ..... 3
POLS-4580 Research in American Politics ..... 3
International Studies
POLS-4400 Seminar in International Studies ..... 3
POLS-4500 Research in International Studies ..... 3
Political Philosophy
POLS-4550 Seminar in Political Philosophy ..... 3
POLS-4560 Research in Political Philosophy ..... 3
*Capstone Course
History/Political Science Major Curriculum Summary Proficiency Requirements ..... 0-6
Other General Education Requirements ..... 46-54
History/Political Science Major Requirements ..... 44-45
Electives ..... 29-38
Total (minimum, not including proficiency) ..... 128

## International Studies

The international studies major utilizes courses from several academic disciplines to prepare students for a variety of internationally-focused careers, including international relations.
Students select one of three concentrations:

- Global economics and international business
- Missiology
- Social science

The major is described in detail in the Interdisciplinary Studies section of the catalog (pg.114).

A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science ..................................... 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
Total ...................................................................................... 32.5
Second year:
BEGE-2730 Old Testament Literature ............................................ 3
BEGE-2740 New Testament Literature ........................................... 3
HIST-2000 Introduction to History (if history track)......................... 2
HIST-2010 History of Civilization I .................................................. 3
HIST-2020 History of Civilization II ................................................. 3
POLS-2610 American National Government .................................. 3
Literature Elective ......................................................................... 3
Physical Science Elective ........................................................... 3.5
Electives .................................................................................... 10
Total ............................................................................................ 33.5

## Third year:

BEGE-3750 Christian Worldview Development .............................. 2
BEGE-3760 Christian Worldview Integration .................................. 2
HIST-3000 Introduction to Historiography .................................... 3-6
(or GSS-3610 Data Analysis ...................................................... 3)
and GSS-3620 Research Methodology .......................................... 3)
PUAD-3600 Public Administration ................................................. 3
POLS-3650 International Relations ................................................ 3
Humanities Elective ................................................................................................. 3
Non-Western History Elective ........................................................ 3
Electives ...................................................................................................................... 3
Total .......................................................................................... 31

## Fourth year:

HIST-3110 Early American History ................................................. 3
(or HIST-3120 History of Recent/Contemporary America ............ 3)
HIST-3710 History of Political Philosophy I..................................... 3
(or HIST-3720 History of Political Philosophy II ............................. 3)
HIST-4000, 4010, 4020 Research in American, European,
or Asian History ....................................................................... 3
POLS-4400,4550, or 4570 Seminar International Studies, Political
Philosophy, or American Politics .................................................. 3)
POLS-4610 Political Dynamics .......................................................... 3
History Electives (3000- or 4000-level)........................................... 3
(or POLS-4500, 4560, or 4580 Research in International Studies,
Political Philosophy, or American Politics ....................................... 3)
Electives ..................................................................................... 16
Total .......................................................................................................................................... 31

## 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 42 semester hours including:
Political Science Core
GSS-3610 Data Analysis ................................................................................... 3
GSS-3620 Research Methodology ..................................... 3
HIST-1110 or 1120 United States History .......................... 3
POLS-2610 American National Government...................... 3
POLS-3600 Public Administration ....................................... 3
POLS-3650 International Relations ..................................... 3
POLS-3710 History of Political Philosophy I....................... 3
POLS-3720 History of Political Philosophy II ...................... 3
POLS-3790 Comparitive Politics ......................................... 3
POLS-4610 Political Dynamics........................................... 3
Political Science Concentrations (student must choose one) .... 12
American Politics Concentration
POLS-2620 American State and Local Government ........ 3
POLS-3690 Public Policy .................................................. 3
*POLS-4570 Seminar in American Politics ...................... 3
*POLS-4580 Research in American Politics ..................... 3
International Relations Concentration
POLS-3190 Global Issues ............................................ 3
POLS-4050 Great Power Diplomacy in the Modern World .. 3
*POLS-4400 Seminar in International Studies ................. 3
*POLS-4500 Research in International Studies ............... 3
Political Philosophy
POLS-3740 Political Ideologies ......................................... 3
POLS-3750 Contemporary Political Philosophy ................ 3
*POLS-4550 Seminar in Political Philosophy................... 3
*POLS-4560 Research in Political Philosophy..................... 3
*Capstone Course
Political Science Major Curriculum Summary
Proficiency Requirements0-5
Other General Education Requirements ..... 43-51
Political Science Major Requirements ..... 42
Electives ..... 35-43
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## 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-1000 Foundations of Social Science ..... 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
POLS-2610 American National Government ..... 3
Physical Education Activity Elective ..... 1
Electives ..... 6
Total ..... 32
Second year:
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
POLS-3710 History of Political Philosophy I ..... 3
POLS-3720 History of Political Philosophy II ..... 3
Biology Elective ..... 3.5
Literature Elective ..... 3
Physical Science Elective ..... 3.5
Electives ..... 3
Total ..... 31
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
POLS-3600 Public Administration ..... 3
POLS-3650 International Relations ..... 3
POLS-3790 Comparative Politics. ..... 3
POLS-4610 Political Dynamics ..... 3
Concentration Requirement ..... 3
Humanities Elective ..... 3
Electives ..... 11
Total ..... 33
Fourth year:
POLS-4400 Seminar in International Studies ..... 3
(or POLS-4550 Seminar in Political Philosophy ..... 3)
(or POLS-4570 Seminar in American Politics ..... 3)
POLS-4500 Research in International Studies ..... 3
(or POLS-4560 Research in Political Philosophy ..... 3)
(or POLS-4580 Research in American Politics ..... 3)
Concentration Requirement .....  3
Electives ..... 23
Total ..... 32

## Integrated Social Studies Education

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 46 semester hours in integrated social studies including:
Integrated Social Studies Core
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-1000 Foundations of Social Science .......................... 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 East Asia .............. 3)
(or HIST-3220 History and Politics of the Middle East..... 3)
(or HIST-3540 History and Politics of Africa ..................... 3)
HIST/SOC-3750 Social Movements .................................... 3
POLS-2610 American National Government...................... 3
SOC-2300 Principles of Sociology ...................................... 3
Teacher Education ................................................................ 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-
Adol/Young Adult
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
Students must also select a concentration in economics, geography, history, political science, or sociology.
Economics concentration15
ECON-2340 Macroeconomics ..... 3
ECON-3340 History of Economic Thought ..... 3
GSS-3620 Research Methodology ..... 3
(Requires GSS-3610 Data Analysis ..... 3)
Economics Elective selected from ..... 3
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
Geography Concentration ..... 12
GSS-3620 Research Methodology ..... 3
(Requires GSS-3610 Data Analysis ..... 3)
Geography Electives selected from (must differ from core) .....  .6
GEO-3200 History and Politics of Latin America ..... 3
GEO-3210 History and Politics of East Asia ..... 3
GEO-3220 History and Politics of the Middle East ..... 3
GEO-3540 History and Politics of Africa ..... 3
INTL-4500 Research in International Studies ..... 3
History Concentration ..... 12
Student must choose one of the following: ..... 2-3
HIST-2000 Introduction to History ..... 2
HIST-3000 Introduction to Historiography ..... 3
History Electives selected from ..... 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-3060 History of Modern Germany ..... 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-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
Political Science Concentration ..... 12
GSS-3620 Research Methodology ..... 3
(Requires GSS-3610 Data Analysis ..... 3)
POLS-2620 American State and Local Government ..... 3
Political Science Elective selected from ..... 3
POLS-3610 The American Presidency ..... 3
POLS-3620 The Supreme Court ..... 3
POLS-3630 The Legislative Process ..... 3
POLS-3650 International Relations ..... 3
POLS-3710 History of Political Philosophy I ..... 3
POLS-3720 History of Political Philosophy II ..... 3
POLS-4050 Great Power Diplomacy in the Modern World .....  3
POLS-4610 Political Dynamics ..... 3
POLS-4630 American Constitutional Law ..... 3
Sociology Concentration ..... 12
GSS-3620 Research Methodology ..... 3
(Requires GSS-3610 Data Analysis ..... 3)
SOC-4720 Social Theory ..... 3
Sociology Elective selected from ..... 3
SOC-2200 Criminology .....  3
SOC-2310 Juvenile Delinquency ..... 3
SOC-2400 Marriage and the Family ..... 3
SOC-3330 Social Stratification. ..... 3
SOC-3340 Sociology of Religion ..... 3
SOC-3710 Family and Society ..... 3
SOC-3730 Social Problems. ..... 3
*Capstone Course
Integrated Social Studies Education Major Curriculum Summary
Proficiency Requirements ..... 0-6
Other General Education Requirements ..... 40-48
Intregrated Social Studies Ed. Major Requirements ..... 58-61
Teacher Education Requirements ..... 36-38
Total (minimum, not including proficiency) ..... 134

## A complete description of the General Education

 Requirements is found on page 18Suggested Four-Year Curriculum for aMajor in Integrated Social Studies 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
GSCI-1610 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
Total ..... 34
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-1000 Foundations of Social Science ..... 3
SOC-2300 Principles of Sociology ..... 3
Total ..... 35
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 East Asia ..... 3)
(or HIST-3220 History and Politics of the Middle East ..... 3)
(or HIST-3450 History and Politics of Africa ..... 3)
POLS-2610 American National Government ..... 3
Concentration Requirement ..... 3
Literature Elective ..... 3
Total ..... 35
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 ..... 9-12
Total ..... 30-32

## Social Sciences and History

## 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 63 semester hours including: Prelaw Core Requirements63
ACCT-2110, 2120 Principles of Accounting ..... 6
BEPH-2200 Introduction to Philosophy ..... 3
BEPH-2240 Logic ..... 3
ECON-2330 Microeconomics ..... 3
ENG-3110 Style and Mechanics for Writers ..... 3
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
HIST-1110, 1120 United States History ..... 6
HIST-2010, 2020 History of Civilization I, II ..... 6
HIST-3710 History of Political Philosophy I ..... 3
POLS-2610 American National Government ..... 3
POLS-4630 American Constitutional Law ..... 3
*POLS-4700 Prelaw Seminar ..... 3
PYCH-1600 General Psychology ..... 3
SOC-2300 Principles of Sociology ..... 3
Select one of the following courses: ..... 3
COM-2000 Persuasive Theory ..... 3
COM-3120 Argumentation and Debate ..... 3
Select two of the following courses: ..... 6
HIST-3720 History of Political Philosophy II .....  3
POLS-3620 The Supreme Court ..... 3
PUAD-3600 Public Administration ..... 3
*Capstone Course
Prelaw Major Curriculum Summary
Proficiency Requirements ..... 0-6
Other General Education Requirements ..... 43-51
Prelaw Major Requirements ..... 63
Electives (consultation with advisor) ..... 14-22
Total (minimum, not including proficiency) ..... 128

## A complete description of the General Education

 Requirements is found on page 18
## 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-1000 Foundations of Social Science ..... 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
PYCH-1600 General Psychology ..... 3
Biological Sciences Elective ..... 3.5
Physical Education Activity Elective .....  1
Total ..... 32.5
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
ECON-2330 Microeconomics ..... 3
POLS-2610 American National Government ..... 3
SOC-2300 Principles of Sociology ..... 3
Global Awareness Elective ..... 3
Literature Elective ..... 3
Physical Science Elective ..... 3.5
Total ..... 33.5
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
BEPH-2240Logic ..... 3
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
HIST-2010, 2020 History of Civilization I, II ..... 6
POLS-3620 The Supreme Court ..... 3
(or HIST-3720 History of Political Philosophy II . ..... 3)
PUAD-3600 Public Administration ..... 3
(or HIST-3720 History of Political Philosophy II ..... 3)
Foreign Language (if necessary) ..... 8
Total ..... 33
Fourth year:
COM-2000 Persuasive Theory ..... 3
(or COM-3120 Argumentation and Debate ..... 3)
ENG-3110 Style and Mechanics for Writers ..... 3
POLS-4630 American Constitutional Law ..... 3
POLS-4700 Prelaw Seminar ..... 3
Humanities Elective ..... 3
Electives ..... 14
Total ..... 29

# Social Sciences and History <br> School of Social Sciences and Professional Studies 

## Public Administration

The public administration major prepares students for careers in the executive sector of government and an array of nonprofit sector organizations. The nature of the field is interdisciplinary and therefore requires exposure to a variety of areas of study as shown below.
Course requirements involve 51 semester hours including: Political-Social-Legal Environment9
${ }^{1}$ POLS-2610 American National Government ..... 3
${ }^{1}$ POLS-2620 American State and Local Government ..... 3
${ }^{1}$ PUAD-3600 Public Administration ..... 3
Analytical-Economic Tools. ..... 21
ACCT-2110 Principles of Accounting I .....  3
${ }^{1}$ ECON-2330 Microeconomics ..... 3
${ }^{1}$ ECON-2340 Macroeconomics ..... 3
${ }^{1}$ ECON-3390 Public Finance ..... 3
${ }^{1}$ GSS-3610 Data Analysis ..... 3
${ }^{1}$ GSS-3620 Research Methodology ..... 3
${ }^{1}$ PUAD-3100 Public Budgeting ..... 3
Individual-Group Dynamics ..... 3-15
COM-2000 Persuasive Theory ..... 3
COM-3120 Argumentation and Debate ..... 3
${ }^{3}$ COM-3140 Intercultural Communication ..... 3
COM-3230 Organizational Communication ..... 3
COM-3250 Interviewing ..... 3
Administration/Management Processes ..... 12
ECON-3130 Government and Business ..... 3
${ }^{1}$ MGMT-3500 Principles of Organization and Management ..... 3
MGMT-3530 Human Resources Management ..... 3
MGMT-3550 Organizational Behavior .....  3
${ }^{1}$ MRKT-3600 Principles of Marketing ..... 3
Policy Analysis ..... 6
${ }^{1}$ PUAD-3690 Public Policy ..... 3
${ }^{2}$ PUAD-4600 Applied Public Administration ..... 3
Application ..... 0-9
GSS-4990 Social Science Internship ..... 3-12
PUAD-4970 Independent Study in Public Admin. ..... 1-3
${ }^{1}$ Required course.
${ }^{2}$ Capstone course (required).${ }^{3}$ Satisfies humanities elective for General EducationRequirements.
Public Administration Major Curriculum Summary
Proficiency Requirements ..... 0-6
Other General Education Requirements ..... 46-54
Public Administration Major Requirements ..... 51
Electives ..... 23-31
Total (minimum, not including proficiency) ..... 128

A complete description of the General Education Requirements is found on page 18

## Suggested Four-Year Curriculum for a <br> 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-1000 Foundations of Social Science ..... 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
Literature Elective ..... 3
Physical Education Activity Elective .....  1
Total ..... 29.5
Second year:
ACCT-2110 Principles of Accounting I ..... 3
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
ECON-2330 Microeconomics ..... 3
ECON-2340 Macroeconomics ..... 3
POLS-2610 American National Government ..... 3
POLS-2620 American State and Local Government ..... 3
Global Awareness Elective .....  3
Humanities Elective ..... 3
Physical Science Elective ..... 3.5
Total ..... 30.5
Third year:
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration ..... 2
ECON-3390 Public Finance ..... 3
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
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
Electives ..... 3
Total ..... 31
Summer:
GSS-4990 Public Administration Internship ..... 9
Fourth year:
COM-XXXX Communication Elective ..... 3
ECON-3130 Government and Business ..... 3
MGMT-3530 Human Resource Management ..... 3
PUAD-4600 Applied Public Administration ..... 3
Electives ..... 16
Total ..... 28

## Social Sciences and History

## Sociology

Course requirements involve 41 semester hours including: ANTH-1800 Cultural Anthropology ................................... 3
GSS-3610 Data Analysis................................................. 3
GSS-3620 Research Methodology ..................................... 3
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-4410 Research in Sociology .................................... 3
SOC-4720 Social Theory.................................................. 3
Elective hours in Sociology ........................................... 11

## *Capstone Course

Sociology Major Curriculum Summary
Proficiency Requirements................................................... 0-6
Other General Education Requirements ........................... 43-51
Sociology Major Requirements............................................... 41
Electives .......................................................................... 36-44
Total (minimum, not including proficiency) ........................ 128


The Department of Social Science and History prepares students to practice as caring believers in human service professions, such as social work, criminal justice, and public administration with a focus upon diverse socio-cultural settings

A complete description of the General Education Requirements is found on page 18

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Suggested Four-Year Curriculum
    for a Major in Sociology
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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-1000 Foundations of Social Science ..... 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
Literature Elective ..... 3
Physical Education Activity Elective ..... 1
Total ..... 32.5
Second year:
ANTH-1800 Cultural Anthropology ..... 3
BEGE-2730 Old Testament Literature ..... 3
BEGE-2740 New Testament Literature ..... 3
SOC-2300 Principles of Sociology ..... 3
SOC-3730 Social Problems ..... 3
Physical Science Elective ..... 3.5
Sociology Elective ..... 3
Electives ..... 9
Total ..... 30.5
Third year
BEGE-3750 Christian Worldview Development ..... 2
BEGE-3760 Christian Worldview Integration .....  2
GSS-3610 Data Analysis ..... 3
GSS-3620 Research Methodology ..... 3
PYCH-3690 Social Psychology ..... 3
SOC-3750 Social Movements ..... 3
Sociology Electives .....  6
Electives ..... 9
Total ..... 31
Fourth year:
SOC-4410 Research in Sociology ..... 3
SOC-4720 Social Theory ..... 3
Sociology Elective ..... 2
Electives ..... 26
Total ..... 34

## 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.

## 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.
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.


Students in the social work program have the opportunity to apply their classroom knowledge of Social Work theory, methods, and principles to actual situations of human need in a Field Experience placement.

## 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 University, Cedarville, OH
Rebecca Combs, Greene County Children Services, Xenia, OH
Susan Crumbacher, Bureau of Vocational Rehabilitation, Xenia, OH
Christine Fulmer, Cedarville University, Cedarville, OH
Hope Gordon, Daybreak, Dayton, OH
Pam Hamer, Early Start, Cedarville, OH
George Huff, Cedarville University, Cedarville, OH
Rebecca Johnson, Senior Representative, Cedarville University, Cedarville, OH
Greg Kelly, Lifeway for Youth, Springfield, OH
Esther Lanham, Cedarville University, Cedarville, OH
Debbie Matheson, Family Violence Prevention Center, Xenia, OH
Cari Maynard, Cedarville Alumna, Dayton, OH
Faith McDonald, Clark County Dept. of Job and Family Services, Springfield, OH
Jamie Michael, Lebanon Correctional Institution, Lebanon, OH
Linda Moenter, Montgomery County Children Services, Dayton, OH
Emily Newton, TeenWorks, Inc., Dayton, OH
Kathleen Rhodes, Catholic Social Services, Springfield, OH
Katherine Rowell, Sinclair Community College, Dayton, OH
Jim Stahler, Huber Heights, OH
Sarah VanWinkle, Junior Representative, Cedarville University, Cedarville, OH
William Voskuhl, Greene County Juvenile Court, Xenia, OH

## 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 22.5 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 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.
6. Submit Letters of Recommendation from your pastor, an employer or volunteer supervisor, and a teacher or adult friend.
7. Be interviewed by a minimum of two social work faculty.
8. Earn a cumulative GPA of 2.5 or above. Submit a copy of your current Unofficial Grade Transcript from the Academic Services Office.
9. Complete and document 40 hours of volunteer experience in a social service/community setting.
10. Submit a Social Work Program Handbook Sign Off Sheet.

## Course Requirements

Course requirements for the B.S. degree with a major in social work involve 85.5 semester hours including:
${ }^{1}$ ANTH-1800 Cultural Anthropology ..................................... 3
${ }^{1}$ BEPH-2200 Introduction to Philosophy .............................. 3
${ }^{1}$ BIO-1000 Principles of Biology ...................................... 3.5
ECON-2330 Microeconomics .............................................. 3
${ }^{1}$ HIST-3750 Social Movements ............................................ 3
POLS-2620 American State and Local Government .......... 3
PYCH-1600 General Psychology ......................................... 3
SOC-2300 Principles of Sociology ...................................... 3
${ }^{2}$ SWK-1100 Total Immersion Experience .......................... 2
${ }^{2}$ SWK-2330 Introduction to Social Work .............................. 3
${ }^{2}$ SWK-2350 Field Survey ..................................................... 2
${ }^{3}$ SWK-3010 Human Behavior and Social Environment ..... 4
${ }^{3}$ SWK-3020 Generalist Social Work Practice with
Multicultural Groups3
${ }^{3}$ SWK-3110 Social Welfare Programs and Policy ..... 4
${ }^{3}$ SWK-3210 Social Work Practice with Individuals, Familiesand Groups4
${ }^{3}$ SWK-3430 Junior Seminar I ..... 1
${ }^{3}$ SWK-3440 Junior Field Experience I ..... 3
${ }^{3}$ SWK-3450 Junior Seminar II ..... 1
${ }^{3}$ SWK-3460 Junior Field Experience II ..... 3
${ }^{1}$ SWK-3610 Data Analysis ..... 3
${ }^{3}$ SWK-3620 Social Work Research Methods ..... 3
${ }^{3}$ SWK-4210 Social Work Practice with Special Populations ..... 3
${ }^{3}$ SWK-4220 Social Work Practice with Communities andOrganizations4
3*SWK-4510 Senior Seminar I ..... 2
${ }^{3 *}$ SWK-4520 Senior Seminar II ..... 2
3*SWK-4560 Senior Field Experience I ..... 7
3*SWK-4570 Senior Field Experience II ..... 7
${ }^{1}$ Satisfies General Education Requirement${ }^{2}$ Available to non-majors.${ }^{3}$ Available only to social work majors who have been accepted into theprogram.
*Capstone Course
Recommended electives:3
Social Work Major Curriculum Summary
Proficiency Requirements ..... 0-5
Other General Education Requirements ..... 43
Social Work Major Requirements ..... 85.5
Total (minimum, not including proficiency) ..... 128

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.
(See suggested four-year curriculum for a major in social work on the following page.)

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.

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-1000 Foundations of Social Science .....  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
Total ..... 32.5
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
ECON-2330 Microeconomics ..... 3
HIST-3750 Social Movements .....  3
HUM-1400 Introduction to the Humanities ..... 3
POLS-2620 American State and Local Government .....  3
Physical Science Elective ..... 3.5
Science Elective ..... 3
Total ..... 30.5
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, Families, and Groups ..... 4
SWK-3440, 3460 Junior Field Experience I, II .....  6
SWK-3430, 3450 Junior Seminar I, II ..... 2
Literature Elective. ..... 3
Physical Education Activity Elective .....  1
Quantitative Elective ..... 3
Total ..... 32
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
Total ..... 33
MinorsCourse requirements for a minor in criminal justice involve 18semester hours including:
CRJU-1310 Introduction to Criminal Justice ..... 3
CRJU-XXXX Criminal Justice Electives ..... 15
Course requirements for a minor in history involve 17 semesterhours including:
HIST-1110, 1120 United States History ..... 6
HIST-2010, 2020 History of Civilization I, II ..... 6
HIST-XXXX History Electives ..... 5
Course requirements for a minor in political science involve 18semester hours including:
POLS-2610 American National Government ..... 3
PUAD-3600 Public Administration ..... 3
POLS-XXXX Political Science Electives ..... 12
Course requirements for a minor in public administration involve 18 semester hours including:
MGMT-3500 Principles of Organization andManagement3
POLS-2610 American National Government ..... 3
PUAD-3600 Public Administration .....  3
PUAD-3690 Public Policy ..... 3
PUAD-4640 Strategies for Public Administration ..... 3
ECON, POLS, or PUAD Electives ..... 3Course requirements for a minor in sociology involve 18semester hours including:
SOC-2300 Principles of Sociology ..... 3
SOC-XXXX Sociology Electives ..... 15

## 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-theistic perspective. General Education Requirement. GSS-3610 Data Analysis-Fa 3 hours
The basic concepts of descriptive and inferential statistics are presented for the purpose of analysis of data sets. Among the concepts emphasized are levels of analysis, measures of central tendency and dispersion, probability, hypothesis testing, simple tests of significance correlation, and linear regression. The course will utilize a major statistical software program to familiarize the students with the power of the computer in data analysis.

## GSS-3620 Research Methodology-Sp

3 hours
In the study of the scientific method of research, particular emphasis will be placed upon hypothesis formation, questionnaire design and administration, sampling design, threats to validity, interviewing, and data collection. A research project will be designed. Prerequisite: GSS-3610 Data Analysis.
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.

## 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. In all instances, the prior approval of the professor shall be required in those limited instances in which such permission is granted. Prerequisite: permission of the instructor.
ANTH-4940 Anthropology
CRJU-4440 Special Topics
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-4440 Special Topics
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-2200 Criminology-Fa

3 hours
See course description for SOC-2200 Criminology. CRJU-2310 Juvenile Delinquency-Sp
Study and assessment of causal theory and problems of correction and prevention of delinquency. (Fee: \$30) 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. Prerequisite: PYCH-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-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-3330 Constitutional Law for Criminal Justice-Sp 3 hours Provides an intensive examination of the leading Supreme Court decisions relative to the 4th, 5th, 6th, and 8th Amendments in their application to criminal justice personnel and law enforcement agencies.
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: CRJU1310 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: CRJU1310 Introduction to Criminal Justice.
CRJU-3410
3 hours

## 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-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: CRJU1310 Introduction to Criminal Justice.

## CRJU-4330

Contemporary Issues in Criminal Justice-Sp
Analysis of key issues influencing the criminal justice system.
CRJU-4600 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.

## Geography

GEO-3080 History of Russia and the Soviet Union-Fa 3 hours
See course description for HIST-3080 History of Russia and the Soviet Union.
GEO-3200 History and Politics of Latin America-Fa 3 hours See course description for HIST-3200 History and Politics of Latin America.
GEO-3210 History and Politics of East Asia-Sp 3 hours
See course description for HIST-3210 History and Politics of East Asia.
GEO-3220 History and Politics of the Middle East-Fa 3 hours
See course description for HIST-3220 History and Politics of the Middle East.
GEO-3230 History and Politics of Western Europe-Sp 3 hours
See course description for HIST-3230 History and Politics of Western Europe. (odd years)
GEO-3240 History and Politics of Eastern Europe-Sp 3 hours
See course description for HIST-3240 History and Politics of Eastern Europe.

## GEO-3250

3 hours
History and Politics of Central \& South Asia-Fa
See course description for HIST-3250 History and Politics of Central \& South Asia.
GEO-3510
World Regional Geography-Western Hemisphere-Fa
Spatial survey of various regions in the western hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment.

## GEO-3520 <br> 3 hours

World Regional Geography-Eastern Hemisphere-Sp
Survey of various regions in the eastern hemisphere with an emphasis on the cultural, economic, and political developments in relation to the geographical environment. GEO-3540 History and Politics of Africa-Sp 3 hours
See course description for HIST-3540 History and Politics of Africa.

## History

HIST-1110 United States History I-Fa
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 HIST-2020 History of Civilization II-Sp
This survey of human history begins a 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-3060 History of Modern Germany
3 hours
Composite examination of the course of German unification under Prussia and Germany's rise to the status of great world power. Emphasis is given to 19th and 20th century political and intellectual movements.
HIST-3070 The Age of Reason-Sp

## 3 hours

A survey of the major individuals, events, and ideas of the period spanning the mid-seventeenth century to the end of the eighteenth century, known as the Enlightenment. Included is a study of the changing political landscape, the rise of France and Great Britain as major European powers, the continued fragmentation of the German states as well as the growing power of Prussia, the origin and diffusion of new ideas in philosophy, theology, science, economics, and politics, and the lives of a number of influential individuals of the period. (odd years) HIST- $\mathbf{3 0 8 0}$ 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.
HIST-3090 3 hours
Europe in the Nineteenth Century: the Age of Revolution-Fa A survey of the period running from about 1789 to 1918. The course follows the major political and ideological shifts of the nineteenth century, especially the various revolutions of the period, as well as the major ideas such as evolutionary thought, classical liberalism, laissez faire, socialism, and idealism. Also covered is the Industrial Revolution and geographic focus on Germany and England. (even years) 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
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. (even years)
HIST-3210 History and Politics of East Asia-Fa
3 hours
Study of the historical, political, geographical, social, and diplomatic developments of East Asia from the 18th century to the present. May be credited to geography, history, international studies, or political science. (odd years)
HIST-3220 History and Politics of the Middle East-Fa 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. May be credited to geography, history, international studies, or political science.
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. (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 religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. (even years)
HIST-3250
3 hours

## History and Politics of Central \& South Asia-Fa

This overview course will cover the geography, history, politics, and international relations of Central and South Asia from prehistory 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. (odd years)
HIST-3540 History and Politics of Africa-Sp
This course will begin with the landing of the Ark on Ararat, discuss the origins of the Hamitic, Semitic, and the Japhethitic peoples of Africa, and trace their histories to the modern day. Special emphasis will be given to 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. Prerequisite: permission of instructor. (even years)
HIST-3710 History of Political Philosophy I-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. Prerequisite: major or minor in history or political science or permission of instructor.
HIST-3720 History of Political Philosophy II-Sp
3 hours
Study of the development of political thought in the late medi-
eval 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. 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.
HIST-4000 Research in American History-Fa,Sp 3 hours HIST-4010 Research in European History-Sp 3 hours HIST-4020 Research in Asian History 3 hours
All majors are required to take either HIST-4000, HIST-4010, or HIST-4020. Each student will prepare a formal monograph. Prerequisite: major or minor in history.
HIST-4050
Great Power Diplomacy in the Modern World-Sp
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. 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.

## International Studies

INTL-3080 History of Russia and the Soviet Union-Fa 3 hours
See course desription for HIST-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 HIST-3200 History and Politics of Latin America. (even years)
INTL-3210 History and Politics of East Asia-Fa 3 hours
See course description for HIST-3210 History and Politics of East Asia. (odd years)
INTL-3220 History and Politics of the Middle East-Fa 3 hours See course description for HIST-3220 History and Politics of the Middle East.
INTL-3230 History and Politics of Western Europe-Sp 3 hours
See course desription for HIST-3230 History and Politics of Western Europe. (odd years)
INTL-3240 History and Politics of Eastern Europe-Sp 3 hours See course description for HIST-3240 History and Politics of Eastern Europe.
INTL-3250
3 hours
History and Politics of Central \& South Asia-Fa
See course description for HIST-3250 History and Politics of Central \& South Asia.
INTL-3540 History and Politics of Africa-Sp 3 hours
See course description for HIST-3540 History and Politics of Africa. (even years)
INTL-3650 International Relations-Fa
3 hours
See course description for POLS-3650 International Relations.
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-4400 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-4500 Research in International Studies-Sp 3 hours
Students will prepare and present a formal research project on a country, region, or significant international issue.

## Political Science

POLS-2610 American National Government-Sp 3 hours
Introductory study of the development and structure of the Constitution and the operation of our national political institutions.
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 desription for HIST-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 HIST-3200 History and Politics of Latin America. (even years)
POLS-3210 History and Politics of East Asia-Fa 3 hours
See course description for HIST-3210 History and Politics of East Asia. (odd years)
POLS-3220 History and Politics of the Middle East-Fa 3 hours See course description for HIST-3220 History and Politics of the Middle East.
POLS-3230 History and Politics of Western Europe-Sp 3 hours
See course description for HIST-3230 History and Politics of Western Europe. (odd years)
POLS-3240 History and Politics of Eastern Europe-Sp 3 hours
See course description for HIST-3240 History and Politics of Eastern Europe.
POLS-3250
3 hours
History and Politics of Central \& South Asia-Fa
See course description for HIST-3250 History and Politics of Central \& South Asia.
POLS-3540 History and Politics of Africa-Sp 3 hours
See course description for HIST-3540 History and Politics of Africa. (even years)
POLS-3600 Public Administration-Fa 3 hours
See course description for PAUD-3600 Public Administration.
POLS-3610 The American Presidency-Sp
3 hours
Overview of the office of the American president, the various responsibilities that he holds, the contrasting theories held in regard to the execution of his office, and the increasingly important influence his actions have upon the nation and the rest of the world. (odd years)
POLS-3620 The Supreme Court-Fa 3 hours
Introductory course to the United States Supreme Court as an institution of lasting permanence within the American governmental structure.
POLS-3630 The Legislative Process-Sp 3 hours
In-depth analysis of the real mechanisms that undergird the role of the Congress of the United States as shown by the current literature and exemplified by present members. (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.
POLS-3690 Public Policy-Sp 3 hours
See course description for PUAD-3690 Public Policy.
POLS-3710 History of Political Philosophy I-Fa
3 hours
See course description for HIST-3710 History of Political Philosophy I.
POLS-3720 History of Political Philosophy II-Sp 3 hours
See course description for HIST-3720 History of Political

Philosophy II.
POLS-3740 Political Ideologies-Fa
3 hours
This course examines the major ideologies that have dominated modern politics since the beginning of classical liberalism in the 18th century. Emphasis is given to the epistemological foundations of politics, the pluralist universe of ideologies and its antagonistic character, and, lastly, the ideological character of conservative thought. Prerequisites: HIST/POLS3710, 3720 History of Political Philosophy I, II; majors only. (odd years)
POLS-3750 Contemporary Political Philosophy-Sp 3 hours
This course examines the development of political philosophy in the 20th and 21st centuries, with special attention given to the works of John Rawls and the various critiques they have engendered. Special topics in political philosophy may also be explored. Prerequisites: HIST/POLS 3710, 3720 History of Political Philosophy I, II; majors only. (even years)
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

3 hours
Great Power Diplomacy in the Modern World-Sp
See course decription for HIST-4050 Great Power Diplomacy in the Modern World.
POLS-4400 Seminar in International Studies 3 hours
See course description for INTL-4400 Seminar in International Studies.
POLS-4500 Research in International Studies-Sp 3 hours
See course description for INTL-4500 Research in International Studies.

## POLS-4550 Seminar in Political Philosophy-Fa 3 hours

Senior course in which students will demonstrate their knowledge of political philosophy through guided research, critical thinking, demonstration of oral and written skills, and the submission of a thesis research proposal. Course must be taken during Fall Semester of the senior year. First course of capstone requirement. Prerequisites: major in political science, GSS-3610, 3620; HIST-1110 or 1120; POLS-2610, 3600, 3650, 3710, 3720, 3790, and 4610.
POLS-4560 Research in Political Philosophy-Sp 3 hours
Senior course in which students will demonstrate their knowledge of political philosophy through guided research, critical thinking, demonstration of oral and written skills, and the submission of a bachelor thesis. Course must be taken during Spring Semester of the senior year. Second course of capstone requirement. Prerequisite: POLS-4550 Seminar in Political Philosophy.
POLS-4570 Seminar in American Politics-Fa 3 hours
This course is intended to provide an opportunity for political science majors to develop and demonstrate research, writing, and oral communication skills and to apply them to a research project suitable to the completion of the undergraduate major. It is designed to intellectually synthesize the student's undergraduate political science education, specifically in the area of American politics. Students are expected to demonstrate substantive and methodological abilities acquired through the undergraduate degree program. This course will be followed by a three-hour course, POLS-4580 Research in American Politics

## in Spring Semester.

POLS-4580 Research in American Politics-Sp 3 hours
A seminar/research course that completes the proposed project selected during POLS-4570 Seminar in American

Politics. This course will involve the collection and analysis of data from a normative and/or empirical perspective pertaining to the selected topic in American politics. Through readings and discussion, this course is intended to prepare the student for the rigors of graduate study in American politics.
POLS-4610 Political Dynamics-Sp
3 hours
Analysis of public opinion, interest groups, political parties, and voting behavior; a study of the formation of political attitudes and their influence on the political process. Prerequisites: POLS2610 American National Government; GSS-3610 Data Analysis. (even 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.

## 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.
PUAD-3390 Public Finance 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)
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.
PUAD-3690 Public Policy-Sp
3 hours
Focus on decision making, problem solving, and methods of program analysis. Prerequisites: HIST-1110, 1120 U.S. History; POLS-2610 American National Government.
PUAD-4600 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.
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)

## 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. SOC-2300 Principles of Sociology-Fa,Sp
Introduction to the concepts of sociology. The structure and processes of social life are studied.
SOC-2310 Juvenile Delinquency-Sp 3 hours
See course description for CRJU-2310 Juvenile Delinquency.
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.
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

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-4410 Research in Sociology-Sp 3 hours
Senior research paper in which each student focuses upon an issue or topic within the discipline of sociology.

## SOC-4720 Social Theory-Fa

Historical review of major sociological theorists and a critical examination of their theories from a theistic perspective.

## 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 2 years experience) for 5 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: \$20)
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. (Fee: \$40)

## SWK-2350 Field Survey-Fa,Sp

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. Prerequisite: PYCH-1600 General Psychology; SOC2300 Principles of Sociology or permission of instructor.

## 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, Families, and Groups-Sp
This 4-hour course is taken concurrently with 16 hours per week field experience designed to teach social intervention theory with practice. Emphasis will be given to the basic principles and values of practice in acquiring values, skills, theory, and principles of social work practice as well as the skill developments essential to beginning social work relationships. Intervention strategies for work with families and target groups are presented with an orientation toward problem-solving. The goal of this course is to assist the student in integrating theory with practice and in gaining awareness of the professional use of self 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: \$65) 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: \$65) 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
See course description for GSS-3610 Data Analysis. Social work majors are required to take this section of Data Analysis taught by a social work faculty member with the social work designator. Prerequisite: admission to the Social Work Program or permission of the instructor. 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

3 hours

## Social Work Practice with Special Populations-Fa

This course is the second part of a three-course sequence in acquiring values, skills, and knowledge of generalist social work practice. Intervention strategies for practice with a wide variety of populations will be presented, including people of different religions; women; lesbian, gay, bi-sexual, and transgendered people; children and youth; the elderly; disabled; 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

 4 hoursSocial Work Practice with Communities and Organizations-Sp
Designed to complete the undergraduate program and thus equip the student for beginning professional social work practice. Focus is on competency in social work practice in multiple macro settings as a generalist in problem solving and social change. Prerequisites: admission to the social work program; 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 (Fee: \$90) 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.

## SWK-4520 Senior Seminar II-Sp

2 hours and SWK-4570 Senior Field Experience II-Sp (Fee: \$90) 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.

## Student Costs

## Financial Information

## University Financial Operating 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 ........................................ \$501
Audit tuition per semester credit .................................................... \$251
Fees
Application fee ......................................................................... \$30
Board per semester
Group A Meal Plan ................................................................ 1,163
Group B Meal Plan .................................................................... 1,050
Car registration fee per semester ............................................... 30
Drop/add (course) fee .................................................................... 5
Late payment fee ........................................................................ 20
Late registration .............................................................................. 50
Lost room key .............................................................................. 50
New student fee
Commuting student-Fall Semester ................................................ 75
Commuting student-Spring Semester ......................................... 55
Resident student-Fall Semester .............................................. 105
Resident student-Spring Semester ........................................... 65
Reservation deposit ...................................................................... 250
Room deposit (refundable upon withdrawal) ............................. 100
Room per semester ................................................................. 1,342
Test-out fee per semester credit ............................................... 251
*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

Basic Expenses
Estimated basic costs for the academic year of 2004-2005 (excluding transportation, personal expenses, books, and laboratory fees):
Tuition (based on an average of 32 semester hours) ................... \$16,032
Board (21 meals per week) .............................................................2,326
Room ..............................................................................................2,684
Total Estimated Costs ............................................................ \$21,042

## Other Expenses

Other yearly expenses may be estimated as follows:
Books and supplies
Personal expenses (including clothing, recreation,
and personal items) Note: laundry included with room
Transportation (based on area of residency) ..................................various
Financial aid may be available to help with university 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:

First Payment Due:
Second Payment Due:
Third Payment Due:
Fourth Payment Due:

Fall 2004
August 16, 2004
September 1, 2004
October 1, 2004
November 1, 2004

## Spring 2005

January 1, 2005
February 1, 2005
March 1, 2005
April 1, 2005

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.

## Payment Plans

Students may take advantage of one of two payment plans:
A. Payment in Full involves paying the full amount due as indicated on the Student Invoice by the first payment due date indicated above.
B. Four-Pay Plan makes it possible for students to pay their university bill in four payments spread over three months. An interest charge of $1.083 \%$ per month is made on the unpaid balance. Payment envelopes, available on campus, enable students to send checks through intracampus mail and avoid standing in lines.

First Payment: At least one-fourth of the amount the student is required to pay is due according to the above payment schedule. This is the amount of the student's bill remaining after federal loans, financial aid grants, and scholarships are deducted. When this payment is made, the student has completed financial registration. A late payment charge of $\$ 20$ is assessed if the first payment is not made by the due date.

Second Payment: The student is required to pay the second payment within four weeks of financial registration. A late payment charge of \$20 is assessed to all accounts that do not meet this criteria. An interest charge of $1.083 \%$ per month is made on the unpaid balance.

Third Payment: The student is required to pay the third payment within eight weeks of financial registration. A late payment charge of $\$ 20$ is assessed to all accounts that do not meet this criteria. An interest charge of $1.083 \%$ per month is made on the unpaid balance.

Fourth (final) Payment: The remaining balance owed by the student is due within three months of financial registration. A late payment charge of $\$ 20$ is assessed on all student accounts with a balance remaining after this deadline. An interest charge of $1.083 \%$ per month is made on the unpaid balance.

Please note: The use of the Four-Pay Plan constitutes a debt obligation of the student to the University and is payable in terms as stated. Each parent and each student must consider and understand the full cost and obligation of the commitment being made.

## Notification of the University Bill

Students who register early for classes will receive an invoice based on their course schedule 15 to 20 days before the semester begins. A statement of the student account is generated each month that the account has activity. Invoices and account statements are directed to students at their current university residence. Students may request to have statements and invoices sent to their home address; however, they are still addressed to the student. Forms are available in the Cashier's Office to request that invoices and statements be sent to the home address.

## Invoices and Statements Online

Students may view their student account, payment plan, most recent invoice, and most recent transactions online using the campus network. Students may also assign their parents a password, giving them access
to their student account, invoices, and payment plan. Parents can view this information by logging onto the campus homepage through their own Internet service provider.

## Forms of Payment

Students may pay their university bills using cash, money orders, personal checks, certified checks, checks drawn on a major credit card, or electronically through EZPay at www.cedarville.edu/ezpay. Students can make payments at the Cashier's Office or send their payment by mail. Payments received after 4 p.m. each day in the cashiers' depository box will be credited the next business day.

## 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 according to the due date will be charged a $\$ 20$ late payment charge.
Students with unpaid balances at the end of a semester could be denied grade reports, transcripts, university diploma, and/or enrollment in the next semester. They will also be responsible for any fees incurred in the collection of their past due account.

## Interest Rates

An annual interest rate of 13\% (1.083\% per month) will be charged from the beginning of Fall Semester to the end of Spring Semester on accounts of students enrolled in the current semester.
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 students to earn interest on student accounts that have a credit balance of $\$ 500$ or more. Interest earned is credited monthly. This plan operates automatically as soon as the student has a credit balance of $\$ 500$ or more on the first day of a calendar month. Prepayments can be made anytime. All payments are credited immediately to the student's account. The University reserves the right to limit the amounts deposited under the PIC-Plan. Interest rates are established on a quarterly basis beginning January 1, April 1, July 1, and October 1. Please call 937-766-7665 for the current rate. For more details please request a current PIC-Plan brochure from the Cashier's Office.

## Withdrawals from a Student Account (Credit Balance)

Students may withdraw funds from their account if the account has a credit balance. Cash withdrawals totalling $\$ 50$ maximum may be made on a weekly basis. No more than two cash withdrawals may be made in a week. No withdrawals are allowed during the 1st week of classes. Withdrawals of amounts greater than $\$ 50$ are issued by check upon request in person, by e-mail, or by telephone from the Cashier's Office. Check processing normally requires one or two full business days.

## 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 6 or more credits at no additional cost. Students taking less than 6 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 (973)766-7864, visit online at
www.cedarville.edu/dept/ums, or e-mail 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 refund date.
Reservation deposit submission deadlines and refund dates are as follows:

| Term | Deadline <br> Full Refund | Partial <br> 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 cancellation. 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 Academic Services Office.
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 2004 | Spring 2005 |
| :--- | :--- | :--- |
| $100 \%$ | thru Sept. 3 | thru Jan. 21 |
| $75 \%$ | thru Sept. 10 | thru Jan. 28 |
| $50 \%$ | thru Sept. 17 | thru Feb. 4 |
| $25 \%$ | thru Sept. 24 | thru Feb. 11 |
| No Refund | after Sept. 24 | after Feb. 11 |

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.

## Federal Refund Policy

Programs that are included:

1. Federal Pell Grant
2. Federal SEOG Grant
3. Federal Perkins Loan
4. Federal Stafford Loans
5. 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 midpoint 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. Federal SEOG grant

## Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 35, and 106 U.S. Code for Education of Veterans and their Dependents. Students under Chapters 30, 32, 35, and 106 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 Academic Services Office.

## 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 Academic Services Office.
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: 1 st payment by $2 / 1$
2nd payment by $3 / 1$
3rd payment by $4 / 1$
Final payment by $5 / 1$
Interest of $1.083 \%$ per month will be charged on unpaid balances. A late payment charge of $\$ 20$ 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.
Most 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 and complete the FAFSA at

## 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, and forensics.
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 home page has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the World Wide Web and accessing www.cedarville.edu/dept/fa.
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 website at www.cedarville.edu/dept/fal and the FAFSA website at 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, renewable with 3.5 GPA.
- President's Scholarship - Students who score 30 or higher on the ACT. \$2500 award, renewable with 3.5 GPA.
- Faculty Scholarship - Students who score between 25-29 on the ACT. Award amounts range from $\$ 1000$ to $\$ 2200$, renewable with 3.5 GPA.
- National Scholar Award - Students selected as National Merit or National Achievement Finalist or Semi-Finalist. \$4000 award, renewable with 3.5 GPA.
- Cedarville Academic Scholarship - Awarded to upperclassmen (sophomore, junior, or senior) with demonstrated need and a 3.5 Cedarville GPA. Awards are \$1800 and \$2000.
- African-American Scholarships - These merit and need-based scholarships range from $\$ 2,000$ to $\$ 5,000$.
- Hispanic Scholarships - These merit and need-based scholarships range from $\$ 2,000$ to $\$ 5,000$.


## Effective Leader Grants

Effective Leader grants are competitive scholarships that are awarded for outstanding leadership experience. Awards are \$1000 to \$2000.

## Other Grants

- Christian Medical and Dental Society Scholarship - One time grant of $\$ 1500$
- Home school/Leader Scholarship - One time award of \$750 to \$2000
- Jack Wyrtzen Scholarship - Awarded to graduates of WOLBI
- Inter-Cultural Scholarship - A need-based grant for multi-cultured students
- G.A.R.B.C. Scholarships - Awards for first and second place winners of the national and state competition
- 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 $\$ 500$ to $\$ 2,000$ 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 awards are applied. A cumulative Cedarville GPA of 2.5 or above will be 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 awards are applied. A cumulative Cedarville GPA of 2.5 or above will be required for renewal.


## Department Grants

- Athletic - Contact the Athletic Department or coach
- Music - Grants awarded to music majors
- Speech/Forensic - Grants awarded by the Communication Arts Department


## State Grant Programs

## Ohio Student Choice Grant

Students who are residents of Ohio and attending Cedarville University on a full-time basis may be eligible for an Ohio Student 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 Instructional Grants

Students who are residents of Ohio and have total family incomes of less than $\$ 39,000$ may be eligible for an Ohio Instructional Grant. Application may be made through the completion of the FAFSA. Filing deadline is November 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 8 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 937-3236704 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 Office of Education. All students with financial need are encouraged to apply for this grant by using the Free Application for Federal Student Aid (FAFSA).
Grants currently range from \$400-\$4,050 per year. Eligibility is determined by a federal processing agency for the Department of Education.
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 $=$
9-11 hours =
6-8 hours =
1-5 =

## Federal Supplemental Educational Opportunity Grant

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. 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, Central State University, Wilberforce, OH 45384 (937-376-6657 or 937-376-6279), or call Roger Overturf at 937-766-7808.

Army National Guard. 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 Roger Overturf at 937-766-7808.
Air Force. 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 Roger Overturf at 937-766-7808.

## 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:

| 12 hours or more | $=$ | Full award |
| :--- | :--- | :--- |
| $6-11$ hours | $=$ | Prorated |
| less than 6 hours | $=$ | No award |

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.
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.
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.
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.

Willis F. 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.
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.
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 FundAwarded 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 students preparing to teach in elementary or secondary schools. Students must have outstanding ACT/ SAT scores and an outstanding high school GPA. Renewal is based on continued outstanding performance.
The Gugger Scholarship Fund Awarded to students selected by the University Administrative Council.
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.
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 Renèe 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 ScholarshipAwarded 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.
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.
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.
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.
Nursing Endowed Scholarship Fund Given to students with demonstrated financial need, academic progress, and potential for Christian leadership in nursing. Provided by Christian nurse friends of the University.

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 Pfleger 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 Pfleger, and her grandfather, Floyd Pfleger.
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.
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.
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.
Dr. Daniel C. Stevens Memorial Scholarship Awarded to advancing sophomore 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.
Tempelhof Organ ScholarshipAssists students who are studying the organ. Students must be knowlegeable 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 ScholarshipAwarded 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 fulltime 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 fulltime 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.
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 Pat Yoder 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.
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.
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.
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. Scholarship is funded by Jenna Ellis, a current Cedarville University student.

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 students 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.
The James T. Jeremiah Award Given to a senior desiring to enter a fulltime 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 a junior or senior who is a member of the men's soccer team and 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.
Dan Poole Broadcasting Award This award is given to students who are pursuing a bachelor's degree in broadcasting and are actively involved with the university student radio station. Recipients must have a minimum cumulative GPA of 3.3. Established by Dan Poole ('80).
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 fulltime 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 one or more areas of the fine arts (music, drama, communication arts, and broadcasting). Established by Mr. and Mrs. Floyd Rietveld.
Dr. and Mrs. David Robey Forensics Award Given to varsity forensics students who demonstrate success in forensics competition and have exercised leadership on the forensics team. Must make a commitment to continue in forensics competition during the year the scholarship is awarded and have a minimum GPA of 3.0. Established by Dr. and Mrs. David Robey.
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.
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.
The Undergraduate Award for Achievement in Organic Chemistry Given to the student with the highest GPA in organic chemistry.
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 $\$ 2400$.

## Federal Family Education Loan Programs

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, 1994, is a variable rate not to exceed $8.25 \%$. 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 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 payments during inschool 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) 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 interest rate is a variable rate and will not exceed $9 \%$. 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 proceeds. 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 proceeds 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 national 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, to the maximum amount of $\$ 20,000$ for the undergraduate student.
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 withdraws 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 a week during the academic year, providing they show a demonstrated need from their federal need analysis (i.e., the FAFSA). All work assignments are made by the Financial Aid Office. 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. For more information, visit
www.cedarville.edu/dept/fa/studentemployment.htm

## 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) Federal Pell Grant, (2) The Federal Perkins Loan, (3) The Federal Supplemental Educational Opportunity Grant-FSEOG, (4) Federal Work Study-FWS, and (5) Stafford/PLUS Loans.

## 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 at least 2.0 " $C$ " in order to graduate from Cedarville University. The following academic requirements would be appropriate in achieving this goal and fulfilling the term "carrying to completion" the required credit hours. 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 consistent with graduation requirements. The following illustrates the academic progress policy:

| Hours attempted | $\mathbf{1 - 3 2}$ | $\mathbf{3 3 - 6 4}$ | $\mathbf{6 5 - 9 6}$ | $\mathbf{9 7 - 1 9 2}$ |
| :--- | :--- | :--- | :--- | :--- |
| Completed (percent) | $65 \%$ | $70 \%$ | $75 \%$ | $80 \%$ |
| Minimum cumulative GPA | 1.7 | 1.9 | 2.0 | 2.0 |

Satisfactory academic progress means that first-time students must, after a reasonable probationary period not to exceed two semesters except in cases of mitigating circumstances, have registered the minimum cumulative grade point average each semester thereafter above. In addition, these students must complete 65\% the first academic year, $70 \%$ the second year, $75 \%$ the third year, and $80 \%$ the fourth year.
NOTE: Cumulative grade point average is measured each semester; percentage of work or credit hours completed is measured once each academic year. It is assumed that the majority of students will graduate in the normal time frame. However, no student may continue more than six years to complete his/her academic program. Regardless of the credit hours full-time students attempt, which cannot exceed 192, they must complete the percentage of work (credit hours) and have the appropriate cumulative grade point average as stipulated.
Aid recipients who fail to complete the required number of credit hours listed above during the applicable academic year and who do not meet the minimum 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 required to confer with the Financial Aid Office and other appropriate offices. 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 with school policy, the grading marks "F", "I", and "WF" will not be considered as successful completion of courses attempted. Incomplete "I" grades can be considered when completed according to the provisions in the university catalog. Courses that are repeated will count in the calculation of hours attempted and completed hours earned if the student receives a passing grade; however, all grades received for the course will be included in the grade point 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. Noncredit hours for which an "NC" has been earned 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. "AU" Audit, "W" Withdrawal, "WP" Withdrawal Passing do not constitute hours attempted or completed.
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 a full-time basis (12 credit 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. Most financial aid is not available to students who enroll for fewer than six hours of credit per semester (half time).

## Transfer Students

Transfer students who have never attended Cedarville University will be treated as new students. After completion of the probationary period, the transfer credits plus the credits received at the University and the cumulative grade point average earned will be the evaluating factors to determine if progress is evident, based on the current satisfactory academic progress policy.

## Method for Appeal

Students who have been discontinued from financial aid have a right to appeal and can do so by written notification to the associate director of student financial aid. All appeals must include substantive reasons for failure to comply with the provisions of this policy, and all extenuating circumstances must be supported by documentation.
The financial aid committee meets and decides on each appeal and notifies the student of the decision. If a student is dissatisfied with the decision, he/she can appeal to the vice president of 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

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Ronald Becker (2005), Vice Chairman
Daryle Doden (2007), Secretary
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Irwin Olson, Mesa, Arizona
Lynn Rogers, Sagamore Hills, Ohio
Robert Sumner, Vero Beach, Florida
Paul Vernier, Fairborn, Ohio

## 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.
Duane R. Wood, Academic Vice President. B.S.M.E., Rose-Hulman Institute of Technology, 1964; M.B.A., Butler University, 1968; D.B.A., Indiana University, 1974. At Cedarville since 1987.
John C. Anglea, Vice President for Business. B.S., Husson College,
1971; M.B.A., University of Dayton, 1983. At Cedarville since 1988.
Robert K. Rohm, Vice President for Christian Ministries. B.A.,
Cedarville University, 1968; M.R.E., Grand Rapids Baptist Seminary, 1981. At Cedarville since 1986.

David M. Ormsbee, Vice President for Enrollment Management. B.A., Cedarville University, 1978; M.B.A., Syracuse University, 2003. At Cedarville since 1979.
Carl A. Ruby, Vice President for Student Services. B.A., Cedarville University, 1983; M.A., Wheaton College, 1988; Ph.D., Ohio University, 1996. At Cedarville since 1983.

## Academic and Student Services

Patricia L. Bates, Associate Dean of Students. B.S., Ouachita University, 1968; M.S., Xavier University, 1971. At Cedarville since 1974. Kirsten Gibbs, Associate 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 of Students. 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.

## Library

Lynn A. Brock, Director of Library Services; Professor of Library Science. B.A., Cedarville University, 1968; M.L.S., Indiana University, 1969. At Cedarville since 1969.

Janice M. Bosma, Associate Director of Library Services; Associate Professor of Library Science. B.A., Grand Rapids Baptist College, 1975; M.L.S., Western Michigan University, 1978. At Cedarville since 1982. Carl D. Brandon, Assistant Library Director for Media Services; Associate Professor of Library Science. B.S., Bob Jones University, 1969; M.A., Bob Jones University, 1970. At Cedarville since 1992. Julie Deardorff, Assistant Library Director for Collection Services; Assistant Professor of Library Science. B.A., Gettysburg College, 1990; M.L.I.S, The University of Rhode Island, 1993. At Cedarville since 1996.

Tonya L. Fawcett, Assistant Library Director for Reader Services; Assistant Professor of Library Science. B.A., Cedarville University, 1983; M.L.S., University of Maryland, 1986. At Cedarville since 1993. Lynne M. Funtik, Reference Librarian; Assistant Professor of Library Science. B.A., Wayne State University, 1981; M.L.I.S., Wayne State University, 1984. At Cedarville since 1994.
Gregory A. Martin, Curriculum Materials Center Librarian; Assistant Professor of Library Science. B.M.M.E., Wright State University, 1972; M.M., Wright State University, 1979. At Cedarville since 2002.

Rory L. Patterson, User Education Librarian; Assistant Professor of Library Science. B.A., Cedarville University, 1994; M.A., Miami University, 1996; M.L.I.S., University of Oklahoma, 2000. At Cedarville since 2001.

Susan L. Winn, Reference Librarian; Assistant Professor of Library Science. B.A., Cedarville University, 1997; M.L.S., Kent State University, 2000. At Cedarville since 2000.

## Correspondence Directory

## Academic Assistance

Pamela Johnson, Director of Academic Assistance
Academic Services/Transcripts
Fran Campbell, Registrar
Admissions
Roscoe Smith, Director of Admissions
Alumni Relations
Faith Linn, Director of Alumni Relations
Athletics
Ronald (Pete) Reese, Athletic Director
Campus Activities
Richard Walker, Director of Campus Activities
Career Services
Travis L. (Lew) Gibbs, Director of Career Services
Christian Ministries
Robert Rohm, Vice President for Christian Ministries
Computer Services
Dave Rotman, Director of Computer Services
Counseling Services
John Potter, Director of Counseling Services
Curriculum
Duane Wood, Academic Vice President
Estates and Planned Giving
David Bartlett, Director of Gift Planning

## External Relations

Janice Supplee, Director of External Relations
Financial Aid
Fred Merritt, Director of Financial Aid
Food Service
Charles McKinney, Director of Food Service
Graduate Programs
Sharon Johnson, Director of Graduate Programs
Honors Program
David Mills, Director of the Honors Program
Human Resources
Timothy Bosworth, Director of Human Resources
Institutional Research
Sharon Johnson, Director of Institutional Research
Library
Lynn Brock, Director of Library Services
Cedarville University Medical Services
Debra McDonald, Director of Cedarville University Medical Services Student Accounts
Ron Wood, Manager of Student and Vendor Accounts
Student Life, Housing
Patricia Bates, Associate Dean of Students
Kirsten Gibbs, Associate Dean of Students
Brad Smith, Associate Dean of Students
Summer School/Study Abroad
Kevin Sims, Director of Summer School/Continuing Education
WCDR-FM
Paul Gathany, General Manager
Direct correspondence to:
Cedarville University, 251 N. Main St., Cedarville, OH 45314
http://www.cedarville.edu
e-mail: 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 selfgovernment. 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.

## Standards of Conduct

We believe that the Scriptures clearly delineate principles which govern Christian conduct. Our behavior should not hinder the faith of other believers; we should do only those things which will glorify God and which will edify both the individual and the group. We recognize that we have a responsibility to maintain an appropriate testimony before unbelievers.
We believe that to aid personal spiritual growth, for the sake of Christian testimony and the achievement of college purposes, we must abstain from the use of alcoholic beverages, tobacco, and the nonmedical use of narcotic drugs; and not participate in social dancing, gambling, the use of unwholesome media materials, and membership in secret societies. We also believe that Christians have an obligation to dress appropriately and to have sincere respect for the Lord's Day. We prayerfully seek to serve Christ in an atmosphere free from personal attitudes of distrust, dishonesty, selfishness, damaging criticism, racism, disrespect, unethical conduct, and irreverence.

| Statistical Information-Fall Semester 2002 |  |  |  | Faculty/Enrollment Comparison (full-time equivalents) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| By Class - Men and Women | Men | Women | Totals | 1998-99 | Student | Faculty 153 | Ratio |
| Freshmen | 442 | 476 | 918 | 1999-00 | 2,726 | 158 | 17.3 |
| Sophomores | 286 | 362 | 648 | 2000-01 | 2,735 | 167 | 16.4 |
| Juniors | 275 | 330 | 605 | 2001-02 | 2,943 | 169 | 17.4 |
| Seniors | 351 | 415 | 766 | 2002-03 | 2,853 | 193 | 14.8 |
| Special/Grad/High School | 24 | 35 | 59 | 2003-04 | 2,898 | 200 | 14:4 |
| Totals | 1,378 | 1,618 | 2,996 |  |  |  |  |
| Student Resident Status |  |  |  | By State | Men | Women | Totals |
| Campus housing 2,458 Corne | Commuters | 538 |  | Alabama | 0 | 2 | 2 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Major | Men | Women | Totals | California | 24 | 28 | 52 |
| Accounting | 35 | 37 | 72 | Colorado | 6 | 17 | 23 |
| American Studies | 3 | 1 | 4 | Connecticut | 11 | 8 | 19 |
| Applied Psychology | 9 | 58 | 67 | Delaware | 4 | 5 | 9 |
| Athletic Training | 12 | 14 | 26 | Florida | 17 | 31 | 48 |
| Bible-1 year certificate | 4 | 11 | 5 | Georgia | 5 | 11 | 16 |
| Bible, Comprehensive | 21 | 11 | 32 | Idaho | 2 | 4 | 6 |
| Bible, Preseminary | 64 | 4 | 68 | Illinois | 51 | 60 | 111 |
| Sible, Youth Ministries | 18 | 13 | 42 | Indiana | 81 | 112 | 293 |
| Biology-Bachelor of Science | 42 | 48 | 90 | lowa | 11 | 18 | 29 |
| Broadcasting | 18 | 7 | 25 | Kansas | 5 | 6 | 11 |
| Chemistry-Bachelor of Arts | 2 | 4 | 6 | Kentucky | 15 | 15 | 30 |
| Chemistry-Bachelor of Science | 42 | 48 | 90 | Louisiana | 11 | 1 | 2 |
| Christian Education ${ }^{\text {Christian Education \& Youth }}$ | 9 | 20 4 | 13 | Maryland | 18 | 32 | 50 |
| Communication Arts | 46 | 87 | 133 | Massachusetts | 13 | 14 | 27 |
| Computer Engineering | 35 | 3 | 38 | Michigan | 154 | 176 | 330 |
| Computer Science | 64 | 5 | 69 | Minnesota | 14 | 12 | 26 |
| Criminal Justice | 30 | 12 | 42 | Missouri | 10 | 14 | 24 |
| Early Childhood Education | 8 | 209 | 217 | Montana | 6 | 0 | 6 |
| Electrical Engineering | 94 | 11 | 99 | Nebraska | 4 | 9 | 13 |
| Electronic Media Mechnology | 48 | 11 | 59 | Nevada | 2 | 1 | 3 |
| English | 16 | 62 | 78 | New Hampshire | 17 | 16 | 33 |
| Exercise Science | 11 | 24 | 35 | New Jersey | 49 | 51 | 100 |
| Finance | 28 | 20 | 48 | New Mexico | 0 | 1 | 1 145 |
| Global Economics-International Studies Graphic Design | 13 | 22 | 35 | Now N (h) Carolina | 14 | 21 | 35 |
| Graphic Design | 21 | 20 | 26 34 | North Carolina | 140 | 21 | + |
| History/Political Science | 10 | 5 | 15 | Ohio | 467 | 540 | 1007 |
| Integrated General Science | 2 | 4 | 6 | Oklahoma | 2 | 8 | 10 |
| Integrated Language Arts | 12 | 47 | 59 | Oregon | 6 | 9 | 15 |
| Integrated Life Science | 3 | 5 | 8 | Pennsylvania | 140 | 143 | 283 |
| Integrated Math | 14 | 19 | 35 | Rhode Island | 1 | 0 | 1 |
| Integrated Physical Science | 1 | 0 | , | South Carolina | 7 | 9 | 16 |
| Integrated Physics Education | 3 |  | 3 | South Dakota | 1 | 0 |  |
| Integrated Social Studies | 20 | 20 | 40 | Tennessee | 12 | 12 | 24 |
| Management | 106 | 42 | 148 | Texas | 13 | 16 | 29 |
| Management Information Systems | 30 | 29 | 32 | Vermont | 2 | 5 | 7 |
| Marketing Mathematics-Bachelor of Arts | 47 | 29 4 | 11 | Virginia | 30 | 31 | 61 |
| Mathematics-Bachelor of Science | 9 | 10 | 19 | Washington | 11 | 18 | 29 |
| Mechanical Engineering | 159 | 9 | 168 | West Virginia | 17 | 21 | 38 |
| Middle Childhood Education | 24 | 67 | 91 | Wisconsin | 27 | 30 | 57 |
| Missiology-International Studies | 2 | 9 | 11 | Wyoming | 1 | 0 | 1 |
| Multimedia Technology | 11 | 5 | 16 | District of Columbia | 0 | 1 | 1 |
| Music | 21 | 47 | 68 | Guam | 2 | 1 | 3 |
| Music, Church Ministries | 16 | 4 | 20 | Subtotals | 1,364 | 1,607 | 2,971 |
| Music, Composition | 0 | 1 | 1 | Foreign Residence | 14 | 11 | $\underline{25}$ |
| Music, Multi-Age Education | 22 | 35 | 57 | Totals | 1,378 | 1,618 | 2,996 |
| Music, Performance Nursing | 19 | 255 | 1 274 |  |  |  |  |
| Pastoral Studies | 25 |  | - 27 | By Age - Men and Women |  |  |  |
| Philosophy | 14 | 3 | 17 | Years | Men | Women | Totals |
| Physical Education | 0 | 1 | 1 | under 18 | 27 | 45 | 72 |
| Physical Education, Multi-Age | 12 | 21 | 33 | 18 | 291 | 396 374 | 687 694 |
| Physics Political Science | 10 | $\stackrel{2}{9}$ | 12 25 | 19 | 273 | 374 | 626 |
| Prelaw | 18 | 10 | 28 | 21 | 280 | 315 | 595 |
| Psychology | 32 | 59 | 91 | 22 | 118 | 85 | 203 |
| Public Administration | 8 | 3 | 11 | 23-24 | 39 | 21 | 60 |
| Sociology | 3 | 7 | 10 | 25-29 | 10 | 8 | 18 |
| Social Science | 2 | 1 | 3 | 30+ | 20 | 21 | 41 |
| Social Science-International Studies | 15 | 10 | 25 |  |  |  |  |
| Social Work Spanish | 2 | 34 | 36 |  |  |  |  |
| Spanish Spanish Education, Multi-Age | 1 | 21 | 22 |  |  |  |  |
| Spanish Education, Multi-Age | 3 | 11 | 14 |  |  |  |  |
| Special Education, Multi-Age | 3 | 52 | 55 |  |  |  |  |
| Sport Management ${ }_{\text {Technical }}$ \& Professional Communication | - 20 | 23 | 23 28 |  |  |  |  |
| Theatre | 4 | 25 | 29 |  |  |  |  |
| Undecided | 105 | 109 | 214 |  |  |  |  |
| World Missions | 10 | 19 | 29 |  |  |  |  |

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## Directions



## 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 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Total Hours: |  | Total Hours: |  |
| Second year |  |  |  |
| Fall Semester Courses | Credits | Spring Semester Courses | Credits |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Total Hours: |  | Total Hours: |  |
| Third year |  |  |  |
| Fall Semester Courses | Credits | Spring Semester Courses | Credits |
|  |  |  |  |
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|  |  |  |  |
| Total Hours: |  | Total Hours: |  |
| Fourth year |  |  |  |
| Fall Semester Courses | Credits | Spring Semester Courses | Credits |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Total Hours: |  | Total Hours: |  |

Notes




[^0]:    The new Fitness Center provides a modern environment where students

[^1]:    "Friends for Life" are developed through informal and often unplanned

[^2]:    The atheltic training major prepares students for careers as Certified Athletic Trainers with an emphasis on using athletic training as an opportunity for

[^3]:    * Average number of student teachers supervised by each supervisor in each 10 -week term of student teaching. Does not include overseas student teachers.

[^4]:    Additional Courses for dual licensure 14.5-15 EDEC-2100 Art, Music, and Drama for Early Childhood 2 EDEC-3500 Early Childhood Education3
    EDEC-3600 Issues in Early Childhood Administration. 3EDEC-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)

[^5]:    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

[^6]:    * Elementary Spanish does not count toward the major.

[^7]:    Because nursing students view their work as a ministry, they are able to impact many lives with the love of Christ.

[^8]:    Professors work to provide an environment that is conducive for

[^9]:    Students gain an understanding of creation science through

