

Undergraduate Academic Catalogs

Academic Catalogs

Fall 2009

2009-2010 Undergraduate Academic Catalog

Cedarville University

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2009-10

ACADEMIC CATALOG





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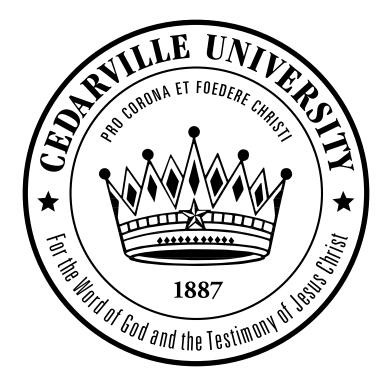
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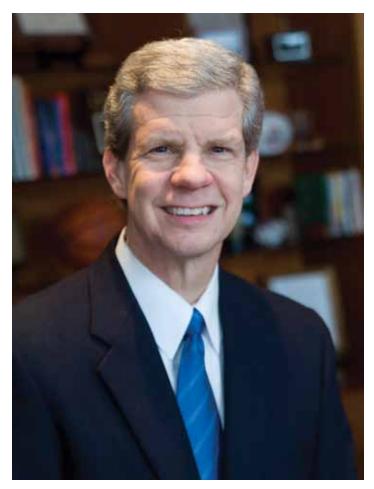


2009–10 Academic Catalog

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.

Introduction



A Word from Our President

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

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

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

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

God Bless,

2

Sui Bronn

Bill Brown President, Cedarville University

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History

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

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

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

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

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

In April of 2000, the Board of Trustees voted to change the designation of the institution from college to university effective September 1, 2000. Under the leadership of the current University president, Dr. Bill Brown, the future looks bright for Cedarville University as it seeks God's continued blessing and enters its 122nd year of service with approximately 3,000 students.

Profile

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

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

Mission

Cedarville University is a Christ-centered learning community equipping students for lifelong leadership and service through an education marked by excellence and grounded in biblical truth.

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

- 1. To undergird the student in the fundamentals of the Christian faith and to stimulate each student to evaluate knowledge in the light of scriptural truth.
- To encourage growth in Christian character in each student and to help the student accept responsibility for faithful Christian service.
- 3. To increase each student's awareness of the world of ideas and events 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.
- 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 and the Association of Christian Schools International for the education and licensure of teachers. The Bachelor of Science in Nursing degree is accredited by the Commission on Collegiate Nursing Education (CCNE). The Bachelor of Science in Mechanical Engineering degree and the Bachelor of Science in Electrical Engineering degree are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). The Bachelor of Science in Social Work program is accredited by the Council on Social Work Education (CSWE). The Bachelor of Arts in Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The Bachelor of Arts in Business Administration program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). The Bachelor of Arts in Music program, the Bachelor of Music programs, and the Bachelor of Music Education programs are accredited by the National Association of Schools of Music (NASM).

The University holds membership in the North Central Association of Colleges and Schools, web: **www.ncahlc.org**, phone: 312-263-0456. This recognition signifies that the University is accredited.

The University also holds membership in the Council for Christian Colleges and Universities. For a listing of additional memberships, visit **www.cedarville.edu/accreditation**.

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

The Setting

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

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

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

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

Facilities



Alford Auditorium

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



Apple Technology Resource Center

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



Athletics and Recreation Complex

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



Callan Athletic Center

Constructed in 1981, the Callan Athletic Center includes the Stranahan Gymnasium, which seats more than 3,000 fans and serves as the competition venue for our basketball and volleyball programs, along with providing space for a variety of practices, intramural sports, and many other recreational activities. The entire facility features three full-length basketball courts, five volleyball courts, 11 badminton courts, an athletic free weight room, team, and general-use locker rooms, and an athletic laundry facility. The newly renovated second floor, opened in January 2003, includes the varsity room, six classrooms, an exercise science lab, and office space for coaches and faculty in the school of social sciences and human performance.



Doden Field House

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



Fitness Center

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



University Medical Services

Another section added to the complex in 2003 is University Medical Services, which provides ambulatory health care with a staff that consists of physicians and College Health Certified registered nurses. University Medical Services offers many health care services such as preventative care, illness care, wellness education, over-the-counter medications, allergy injection management, laboratory services, prescription medications, rehabilitation treatment, and an insurance claim service. See pages 9 and 270 for more information.



CDR Radio Network Center

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



Centennial Library

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

The library presently houses approximately 200,000 volumes and provides almost 1,000 periodical subscriptions in print form and more than 7,000 subscriptions in full-text computer format. As a member of OhioLINK, a cooperative of 86 institutional libraries, students and faculty have access to more than 10,000,000 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 more than 46,000 libraries in all 50 states, Canada, and many foreign countries.



Center for Biblical and Theological Studies

Situated on Cedar Lake, this innovative 59,000 square-foot structure supports Cedarville's Bible minor — which grounds students in God's word — as well as the nine Bible programs that prepare them for vocational ministry. The center includes a technology-equipped homiletics lab, two lecture halls, 17 classrooms, accessible faculty offices, e-mail stations, a multimedia lab and a 40-station computer lab, along with a lounge, gallery, and vending areas. The building also houses the University's academic enrichment center, which provides tutoring and testing areas to assist more than 200 students.



Collins Hall

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



Dixon Ministry Center

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

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

The department of music, art, and worship facilities include 14 instructional studios, 20 practice rooms, four rehearsal halls, a piano pedagogy suite, a piano laboratory, a computer laboratory, three specialized classrooms, a large conference room, and a beautiful 250-seat recital hall.



Engineering, Nursing, and Science Center

This facility demonstrates the University's firm commitment to providing a quality Christian education in the sciences. This 95,000-square-foot, three-story academic center contains 10 classrooms, including a 200-seat auditorium, 10 independent study laboratories, five conference rooms, 36 discipline-specific laboratories, 50 offices, and several lounges. The building also contains a 40-station general-use computer laboratory and features video and data connectivity in all offices, classrooms, and laboratories. Special features include three computer-equipped classrooms, a reflecting telescope with a 16-inch mirror, an audio visual learning laboratory, a simulated hospital ward, and an engine test cell.



Engineering Projects Laboratory

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



Fine Arts Building

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



Founders Hall

This historic facility was renamed Founders Hall on Centennial Charter Day, January 26, 1987. Today this stately structure serves as Cedarville's administrative and academic headquarters with offices for the president, academic vice president, and Bible department faculty.



Human Resource and Safety Center

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





Milner Business Administration Building

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



Patterson Hall

Formerly the home of the University's medical clinic, Patterson Hall now provides faculty office space for the department of communication arts.



Stevens Student Center

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

The main cafeteria serves 21 "all-you-can-eat" meals per 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 theatre, movement studio, makeup suite, scene design lab, scene shop, offices, and dressing rooms. The theatre has a 36-foot by 18-foot proscenium arch, 38 lines with full fly space, and a Gala electronic lift system for the orchestra pit.



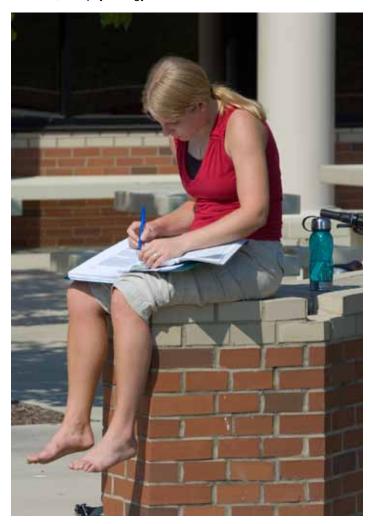
Tyler Digital Communication Center

This facility, renovated in 2002, includes a graphic design lab, writing center, multimedia lab, three computer classrooms, seven general classrooms, and faculty offices. Offices for alumni relations, marketing, creative services, advancement, and computer services are also located in this building.



Williams Hall

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



Introduction



Computer Network

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

CedarNet is a winner of the CAUSE Award for Excellence in Campus Networking. This prestigious national award recognizes colleges and universities that exemplify best practices in campus networking in higher education.

Equipment

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

Access

All students living in a residence hall benefit from 24-hour access to the network. Residence hall computers are replaced on a three-year cycle so that students always have current technology available. To enable students to take further advantage of the network, public laboratories are conveniently open to on-and offcampus students with a total of 180 stations available.

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

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 Ms. Cathy Balas. Avetec Mr. George Chessum. Resurrection Health Care Mr. David Cossey, Union College Mr. Carl Dill, TriCour Partners Mr. Aaron Fessler, MediaSentry Mr. Greg Frye, Basco Shower Door Mr. Brian Gammon, National City Mr. Michael Gutman, Miller-Valentine Mr. Bowe Hoy, System Design Group Dr. Shawana Johnson-Kerr, Global Marketing Insights Ms. Alice Kaltenmark, LexisNexis, Reed Elsevier Mr. James Kregel, Kregel Publications Mr. Ed Krupka, Burris Information Technology Mr. Fred Laxton, Executive Consultants Mr. Douglas Macrae, TVGuide Mr. Andrew Mininger, Imagedog Mr. Robert Murphy, J.W. Pepper and Son, Inc. Mr. William Pardi, Microsoft Corporation Mr. Jonathan Price, CBC Companies Mr. Al Stevens, Opex Corporation Mr. Craig Terrell, Q. Base Mr. Walt Weisel, Robotic Workspace Technologies Mr. Scott Whitten, Dimension Data Dr. Michael Zastrocky, Gartner Group

University Services

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

Career Services

The career services office seeks to facilitate the development of each individual's knowledge base, networking ability, and lifelong career navigational skills.

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. The career services homepage (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.

Registered students are placed in a job-match database that enables students and employers to connect for employment needs. Students may browse job openings and upload a resume for employer review. This is a service they may continue using as alumni.

Career Services Advisory Board

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

Jeffrey A. Carter, The University of Dayton, OH Dawn Fotopulos, DF Consulting, NYC Jim Leightenheimer, Cedarville University, OH Salvatore LoDico, HR Consultant, NJ Larry Mealy, Taylor University, IN Marcella Sampson, Central State University, OH Jennifer Sheehan, Rocking Horse Center, OH John Styll, Gospel Music Association, TN Ronald Walker, Cedarville University, OH Myron L. Youngman, The Kaifa Group, Inc., China

Counseling Services

The counseling services office provides a place where students can find understanding, encouragement, and counsel as they deal with personal, interpersonal, and spiritual concerns.

Staffed by licensed professional counselors, this service offers individual, 50-minute counseling sessions that work around each student's class schedule. Support groups that address specific topics of concern are available throughout the academic year. This service, for which students pay no additional charge, is offered by appointment. In the case of a crisis, the service is provided as needed.

Additional resources for counsel and guidance include the vice president for Christian ministries, faculty members, and staff members. Counseling services also offers referrals to both local and national mental health professionals. Faculty advisors are particularly prepared to assist students in program and course selection.

Location: SSC 163 Phone: 937-766-7855 Web: www.cedarville.edu/counseling E-mail: counsel@cedarville.edu

Health Care and Medical Services

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

Most services at UMS are free as a benefit of tuition, regardless of whether or not a student has insurance. Examples of free services include over-the-counter medications, equipment loans, and visits to see the nurse due to illness or injuries. There is a \$20 charge for physician and nurse practitioner visits and a nominal charge for prescription medications, immunizations, and lab testing. Students will be given a receipt for any fees incurred at UMS, and any charges will be placed on the student's account. Because UMS is not set up to bill any insurance company, it is recommended that students contact their private insurance company or the student health insurance office for any insurance benefits to which they may be entitled.

Phone: 937-766-7862 Fax: 937-766-7865 Web: www.cedarville.edu/ums E-mail: ums@cedarville.edu

Another health care service available to students on campus is Cedarville University Emergency Medical Services (CUEMS), a volunteer EMS ambulance ministry manned by students who are nationally and state certified EMTs and/or paramedics. CUEMS responds primarily to emergencies on campus. Also, CUEMS provides mutual aid to the Cedarville Township and the surrounding community when needed. The students who are involved in the ministry volunteer their medical expertise to the Cedarville University family and strive to demonstrate Christ's love and compassion to their fellow students in time of need. To learn more about the ministry of CUEMS, visit the following website: www.cedarville.edu/ums. For information about how you can become an EMT, refer to page 22.

Housing

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

Approximately 80% of the student body lives on campus in University housing. Men and women are housed in separate residence halls. All offer convenient laundry and lounge areas and house just two students per room. Each room is fully furnished and "phone ready," permitting students to dial and receive calls directly. Every residence hall room is equipped with a networked computer and printer.

Housing assignments are made by the student life office. Upperclassmen who have paid reservation fees are given priority for reserving rooms. New students are assigned rooms after they have been admitted and have submitted their reservation deposits. Complete information concerning residence hall staffing, furnishings, and policies is found in the student handbook at **www.cedarville.edu/studenthandbook**. 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

There are no restrictions on vehicle registration, however, for academic reasons, freshmen are discouraged from bringing a vehicle their first semester. Please understand that parking is limited and upperclassmen are given priority. All vehicles parked on campus must be registered at **www.cedarville.edu/** campussafety.

Introduction



Chapel

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

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

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

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



Christian Ministries

The Christian ministries division coordinates all Universitysponsored student ministries. Cedarville views individual ministry involvement as 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 Christian ministries division provides training and assistance to the hundreds of students who volunteer each year.

Community Ministries

Weekly Ministry Teams

Cedarville University is located in a region known as the Miami Valley. The cities of Columbus, Dayton, and Cincinnati are close by, as well as hundreds of smaller communities. Approximately 70 teams serve the local communities and churches each week. Ministry teams seek to serve individuals and churches of this area by providing assistance in specialized areas, including crisis pregnancy/abstinence and counseling ministries, evangelism/ urban outreach ministries, public school tutoring/teaching english ministries, youth and children's ministries, jail/detention center ministries, hospital ministries, nursing home/elderly visitation ministries, special needs ministries, and local church ministries.

Spring Break Ministry Teams

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

Cross-Cultural Ministries

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

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

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

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

Discipleship Ministries

While many ministries concentrate on "outreach" from campus, the focus of discipleship ministries is "in-reach" on campus. Opportunities include approximately 100 student-led small group Bible studies as well as several prayer groups. Discipleship ministries are excellent avenues for students to grow in their walk with God and find opportunities to minister to fellow Cedarville University students.

Touring Team Ministries

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

- East to West, a new ministry team based on the truth that "From the east to the west, the Lord's name is deserving of praise," combines drama and music to form an exciting multimedia event designed specifically for upper-elementary and middle school teens.
- Lifeline Players (*six members*) use drama to encourage and challenge youth and adults in their faith (team selection is held in the spring).
- The Master's Puppets (six members) use puppetry and a variety of other teaching methods to minister to children.
- **HeartSong** is a talented group of students that present a fresh expression of their faith through music. Whether at a large conference or a small youth event, their quality of music and desire to serve provide a clean picture of the type of students at Cedarville University.



OneVoice Gospel Choir

OneVoice is a music ministry that is open to all students and uses various music styles including black gospel and contemporary Christian to spread the Gospel of Jesus Christ and encourage believers to celebrate the joy of the Lord.

Selecting a Ministry

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

In selecting a ministry, students should apply the following:

- 1. Consider your interests. Select a ministry that allows you to do something you enjoy.
- Consider your vocational goals. There are many ministries that are directly related to the majors offered at Cedarville University. A Christian ministry related to your chosen field can help you decide if you have made the right choice and in some cases may lead to an internship, reference, or employment.
- 3. Talk with upperclassmen. Find someone who has experience in the ministry you are considering.
- 4. Talk with the Christian ministries staff in the Dixon Ministry Center. The staff is available to answer questions you might have.
- 5. Attend organizational meetings, many of which occur during the first two weeks of fall semester.

Guidelines

- 1. All students are encouraged to participate in the University's volunteer Christian ministries program.
- 2. University-owned transportation or mileage reimbursement is provided for those ministries approved through the Christian ministries division.

Student Life

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

Spiritual Emphasis

The University desires that each student grow in his or her relationship with Christ. Consequently, students are urged to regularly practice spiritual disciplines including worship,

prayer, and Bible study. Daily chapel services provide spiritual encouragement and enrichment. Additionally, all students are required to maintain regular worship at a local church and to engage in other activities that enhance their spiritual formation.

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

Community Covenant

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

- We covenant together to express our love for God through our obedience to the authority of His Word, our practice of spiritual disciplines, and regular expressions of worship and Christian service.
- We covenant together to express our love for others through acts of kindness, wholesome and uplifting speech, redemptive expressions of confrontation and forgiveness, merciful acts to those in need, and loving proclamation of the Gospel.
- We covenant together to be people of integrity and self control, truthful in our speech, honest in our conduct, and morally pure in both thought and action.
- We covenant together to pursue excellence in all that we do as an expression of our gratitude to God and desire to be good stewards of all God's gifts, including our talents, time, and resources.
- As members of this community, we voluntarily submit ourselves to all of the guidelines in *The Cedarville Experience* and agree to uphold them with integrity and honesty.

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



Co-Curricular Opportunities

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

- Debate Communication Arts, Page 56
- Engineering Competitions Engineering and Computer Science, Page 81
- Forensics Communication Arts, Page 56
- Math Club Science and Mathematics, Page 162
- Miriam Maddox Forum Communication Arts, Page 56
- Student Radio Station Communication Arts, Page 56
- Theatre Communication Arts, Page 56



Music Groups

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

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

Vocalists may sing with the Concert Chorale, Men's Glee Club, Women's Choir, Opera Ensemble, Jubilate Ministry choir, OneVoice (gospel choir), or one of the many small ensembles directed by the Christian ministries division.

Intercollegiate Athletics

Cedarville University provides intercollegiate competition for men in baseball, basketball, cross country, golf, indoor and outdoor track, soccer, and tennis. Intercollegiate sports for women include basketball, cross country, indoor and outdoor track, soccer, softball, tennis, and volleyball. Cedarville is currently a member of the American Mideast Conference, the National Association of Intercollegiate Athletics, and the National Christian College Athletic Association. For the future, Cedarville University has been accepted for membership in the NCAA Division II.

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. http://yellowjackets.cedarville.edu/



Campus Recreation

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

Student Life Programs

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

Leadership Opportunities

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

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

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

Major-Specific Organizations

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

Alpha Delta Nu (Criminal Justice) Is an organization that supports students majoring in criminal justice.

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

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

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

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

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

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



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

History and Government Organization provides opportunities for students to grow in their appreciation of the fields of history and government.

Icarus Collective exists to promote the enjoyment and appreciation of poetry in all of its various forms.

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

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

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

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

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

Student CEOs is dedicated to enhancing communication between the department of business administration and its students, enhancing the relationship between faculty and students in the program, and participating in marketing and execution of departmental events and programs.

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

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

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

Financial Management Association (FMA) strives to educate students about financial practices, connect students to professionals in their field, and to provide students with valuable resources in their future workplaces.

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

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

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

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

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

Society of Composers Inc. (SCI) seeks to further the cause of the composition and performance of new music in and around the campus community.

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

Students in Free Enterprise (SIFE) is an organization that provides students the opportunity to make a difference and develop leadership, teamwork, and communication skills through learning, practicing, and teaching the principles of free enterprise. *Honor Organizations*

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



Alpha Phi Omega 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.

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

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

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

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

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

Campus Community

Community Service Organizations

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

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

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

Cross-Cultural Organizations

Amplified exists to educate Cedarville University students

about urban ministries and better equip them for future ministry opportunities.

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

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

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.

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.

Rusul Salaam promotes the general awareness of the Islamic religion and a biblically based approach to engaging Muslims through ministry.

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

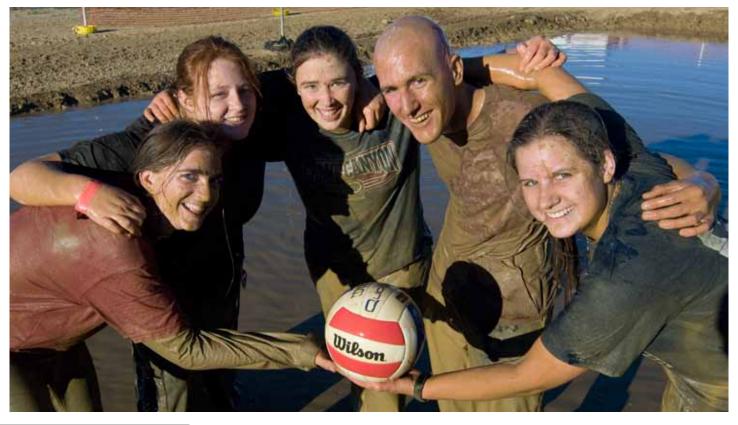
Spanish Club provides opportunities to practice language skills and learn about Spanish speaking cultures through extracurricular activities.

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

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

Basilean is a men's organization that seeks to encourage Godhonoring responsibility and fellowship through social and service opportunities.

Alpha Delta Gamma is a women's organization devoted to



building relationships with women in the surrounding area and helping to meet their needs.

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

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

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

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

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

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

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

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

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

Special Interest Organizations

Acting on AIDS exists to create awareness and activism of the global AIDS pandemic by changing hearts on campus, to create awareness in communities, and to be an advocate for those impacted by AIDS.

Alpha Mu Beta encourages student fellowship through the outlet of ultimate Frisbee.

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.

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

Cedarville Photography Club is established to provide everyone within the Cedarville University family—students, staff, and faculty—the opportunity to learn, share, and fellowship about their common interests in all areas of photography and imaging as a hobby, artistic medium, and profession. Furthermore, the Cedarville Photography Club will promote a Christ-centered and Christ-honoring approach to photography and imaging as a medium for personal, artistic, and professional expression.

Cedarville Students for Life (SFL) is an organization dedicated to defending the dignity and value of every human life, from conception until death. SFL is a voice for the defenseless in our society. Through awareness-raising events and political advocacy, SFL equips students to take a stand against abortion and the willful destruction of innocent life.

CU Climbing Club 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.

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

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

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

Fusion Films

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

Semper Fidelis Society is dedicated to encouraging and providing support for United States Marine Corps Officer candidates, reservists, and veterans.

Students for Life seeks to educate students about issues concerning the sanctity of life and enable them act in defense of the helpless and vulnerable.

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

Table Tennis Club aims to promote the game of table tennis throughout the University, allow for the development of skills, and interact with other colleges and universities through the game.

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

Departmental Support

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

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

Ministry Council is a group of students who work closely with the director of Community Ministries to establish a personal connection between student ministry team leaders and the community ministries office. Ministry Council exists to serve, encourage, and equip student ministry team leaders through oneon-one and small-group interaction.

The Student Center Activities Board (SCAB) exists to develop and equip student leaders while serving the Cedarville University community by creating and implementing traditional, creative, and original student programs and events.

Ten/24 (formerly CAB.) is a volunteer student organization with a desire to serve the University family with activities and programs that connect students and their families with the University. Events that facilitate contact between students, faculty and staff are also planned. Ten/24 works in support of the community and family programs office, a department under the office of student life programs.



Admission Criteria

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

Criteria for selection include:

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

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

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

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

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

High School Course Recommendations

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

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

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

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

Home-schooled Students

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

Early Admission

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

Early College

For information concerning The Cedarville Academy and Summer Studies see page 21.

Admission Procedure

Students are encouraged to apply online 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.
- Send ACT or SAT 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.
- Request that high school transcripts and a recommendation from the high school counselor be sent to Cedarville. Transcripts should include grades and class rank through at least the junior year.
- 4. Request a recommendation from the pastor or a church leader of the church the applicant attends.
- 5. Transfer students should request that official copies of transcripts for work completed at other colleges be sent to Cedarville University.
- 6. Students transferring from a Christian college must submit a Christian College transfer recommendation.

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



Transfer Students

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

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

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

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

Deadlines and Notifications

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

There are 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.

Re-admission

Cedarville students who miss the course registration deadline or sit out for one semester or more must apply for readmission. Students wanting to re-enroll should submit applications for readmission at least two months before the start of the semester. Readmission forms are available online or from the admissions



office. An updated recommendation from the pastor or church leader of the student's attending church is needed. If college-level work has been completed elsewhere, official transcripts should accompany the application for readmission.

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

Reservation Deposit

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

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

Reservation deposit deadlines are as follows:

Term	Deadline
Fall Semester	May 1
Spring Semester	Nov. 1
Summer Session I	April 15
Summer Session II	May 15
Summer Session III	May 15
Summer Session IV	May 15
Summer Session V	May 15

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

International Students

Cedarville University welcomes applications for admission from students of all nations. The University was approved for the acceptance of non-immigrant enrollment by the United States Citizenship and Immigration Services in 1959. The University highly values the international students in the student body and has special programs to aid in their adjustment and development.

International students should follow the University admissions procedures carefully, submitting their applications well in advance of deadlines so that sufficient time is available for processing and communication. 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 (TOEFL) examination and earning a paper-based score of 550 (or better) or an Internet-based score of 80 (or better). All international applicants are required to submit TOEFL, ACT, or SAT scores. Cedarville's institution code for the TOEFL /SAT is 1151 and for the ACT is 3245.

To satisfy United States Citizenship and Immigration Services requirements, Cedarville University is required by law to verify the financial resources of each international applicant prior to issuing the Certificate of Eligibility (Form I-20 for F-1 visa applicants or Form DS-2019 for J-1 visa applicants). In addition to completing application for admission materials to Cedarville University, applicants must also submit the Affidavit of Financial Support form (with supporting documents). Prior to final enrollment, international students must deposit funds to cover one semester's worth of expenses at the University in United States currency. University expenses include tuition, room, board, and variable costs.

Questions concerning immigration issues should be directed to the international student advisor.

International students may qualify for some academic institutional scholarships by submitting either SAT or ACT scores along with their transcripts. Campus employment is also available during the school year and summer.

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.

Calendar and Credits

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

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. **Non-degree students** are those taking classes but not enrolled in degree programs. **Part-time students** are those who have met all admission requirements, are seeking a degree, and are taking fewer than 12 semester hours. **Transfer students** are those who have studied full time for at least one term at another accredited college or university after graduation from high school. **High school students** are those who have not completed high school graduation requirements.

Assignment to Classes

Official class membership is determined according to the following schedule:

Class	Hours Completed
Freshman	0-30.99
Sophomore	31-60.99
Junior	61-90.99
Senior	91+
Non-Degree	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.

Graduate Study

The Cedarville University graduate academic program is designed to meet the professional, personal, and spiritual needs of adults who desire to honor God with their careers and lives. Truth from Scripture is integrated with the knowledge taught in each course to provide effective learning and enduring life values. The knowledge and skills learned from the curricular experiences provide adults with an excellent background for professional competence in education in their chosen fields.

The **Teacher-Leader Program** is a 34 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.

Three benchmarks make the Cedarville University graduate program worth consideration.

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

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



Academic Information

Undergraduate Study

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 Music (B.M.), Bachelor of Music Education (B.M.E.), Bachelor of Science (B.S.), Bachelor of Science in Computer Engineering (B.S.Cp.E.), Bachelor of Science in Electrical Engineering (B.S.E.E.), Bachelor of Science in Mechanical Engineering (B.S.M.E.), and Bachelor of Science in Nursing (B.S.N.).

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

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

- Meet all admission and proficiency requirements. 1.
- 2. Complete at least 128 semester hours (not including proficiency), 32 hours of which must be of upper-division work (3000-4000 level courses).
- З. 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.
- Complete the specific course and professional 7. 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.
- Satisfy the appropriate global awareness requirement. 9.
- 10. Participate in the University testing and assessment program when asked.
- 11. Complete an application for graduation.

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

Requirements for a Second Degree

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

- 1. Meet all the admission requirements.
- 2. Have fulfilled each of the general education courses in biblical education.
- Earn a minimum of 160 credits (32 credits beyond the 128 3. minimum required for a first baccalaureate degree). At least 22 of the credits earned after 128 must be taken at Cedarville University.
- Earn at least 43 credits in upper division courses 4. (3000-4000 level courses).
- Fulfill the requirements of a designated major of the second 5. baccalaureate degree. Any appropriate coursework from the first degree may be applied toward the second degree.
- Earn at least a 2.0 grade point average in the major. 6.
- Participate in the University testing and assessment 7. program when asked.
- Complete an application for graduation. 8.

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.
- Earn at least 32 credits from Cedarville University, including 3. at least 22 credits of upper division courses (3000-4000 level courses).
- 4 Fulfill the equivalent of the Cedarville University general education requirements.
- Fulfill the requirements of a designated major for the 5. second baccalaureate degree.
- Earn at least a 2.0 grade point average in the major. 6.
- Participate in the University testing and assessment 7. program when asked.
- 8. Complete an application for graduation.

Graduation

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

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

IMPORTANT

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

Early Commencement

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



Academic Programs and Majors

Admission to Academic Programs

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

Selecting a Major

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

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

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

Requirements of a Major

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

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

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

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

Major Fields of Undergraduate Study

The University offers 68 major fields of undergraduate study. Some of the majors represent combinations of two or more areas of study; these are denoted with an asterisk (*). Course requirements for each of the majors are outlined in the respective departmental sections of the catalog. Major fields of study include:

- Accounting
- Allied Health
- American Studies*
- Applied Psychology
- Athletic Training
- **Bible Teacher Education***
- Biology
- Chemistry
- Chemistry Education
- Christian Education
- **Church Music Ministries**
- **Comprehensive Bible** Comprehensive
- Communication Computer Engineering
- **Computer Science**
- **Criminal Justice**
- Early Childhood Education
- **Electrical Engineering**
- **Electronic Media**
- English
- **Environmental Science**
- **Exercise Science**
- Finance
- **Forensic Science**
- Geology
- Graphic Design
- History
- History Political Science*
- Information Systems
- Intercultural
- Communication
- International Studies* -Global Economics and International Business
- International Studies* Missiology/World Missions
- International Studies* -Social Science
- Journalism
- Keyboard Pedagogy
- Language Arts Education Integrated
- Life Science Education
- Management
- Marketing
- Mathematics
- Mathematics Education -Integrated

- Mechanical Engineering
- Media Communication Middle Childhood Education
- Molecular and Cellular Biology
- Music
- **Music Composition** Music Education - Multi-Age
- Music Performance
- Nursing
- Organizational Communication
- Pastoral Studies
- Philosophy
- Physical Education -Multi-Age
- **Physical Science** Education
- Physics
- Physics Education
- **Political Communication**
- **Political Science**
- Prepharmacy
- Prelaw*
- Preseminary Bible
- Psychology
- Public Administration*
- Science Comprehensive Education - Integrated
- Social Studies Education -Integrated
- Social Work
- Sociology
- Spanish
- Spanish Education -Multi-Age
- Special Education-Intervention Specialist
- Sport and Exercise Studies
- Sport Management
- Studio Art
- Technical and Professional Communication
- Theatre
- Worship
- Youth Ministries

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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:

- Actuarial Science
- Asian Studies
- Bible
- **Bioethics**
- Biology •
- **Biomedical Engineering** •
- **Business Administration** •
- Chemistry •
- **Christian Education**
- Christian Ministries Management
- Church Music Ministry •
- Coaching ٠
- Comprehensive • Communication
- Computer Science ٠
- **Creative Writing** •
- **Criminal Justice** •
- Cross-Cultural Nursing
- Earth Science •
- Economics
- Editing and Publishing •
- Electronic Media ٠
- French ٠
- German ٠
- Graphic Design •
- Greek
- Health Education -• Multi-Age
- Health Promotion
- History

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.



- Information Systems
- Intercultural Communication
- International Business
- International Studies
- Literature
- Mathematics
- Mission
- Music
- Organizational Communication
- Philosophy and Religion
- Physics
- Political Science
- Preseminary Bible
- Psychology
- Public Administration
- Sociology
- Spanish
- Spanish for Professionals
- Sport Management
- Sport Ministry
- Studio Art
- Teaching English to Speakers of Other Languages (TESOL)
- Theatre
- Women's Ministry
- Writing for the Professions
- Youth Ministry

Special Academic Programs

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

One-Year Bible Program

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

Pre-professional Programs

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

Other Programs

- Computer/Technology Teaching Endorsement
- Honors
- Medical Technology
- ROTC Army and Air Force
- TESOL Teaching Endorsement (Teaching English to Speakers of Other Languages)

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

Early College: The Cedarville Academy and Summer Studies

High school juniors and seniors may enroll in The Cedarville Academy and take one online course each fall and spring semester at deeply discounted tuition rates. Designed for learners with the flexibility to take college courses as part of a high school curriculum, students may earn up to 12 semester hours of credit before arriving on campus as a freshman. Participants may be eligible for an Academy scholarship of up to \$2,000 to attend Cedarville University. Visit www.cedarvilleacademy.com.

Students who have completed their junior year of high school and who display sufficient academic strength may apply for the two week residential Summer Studies program held in mid-June. Designed to provide the full Cedarville experience, students enroll in one course and enjoy chapel, residence life, student activities, and ministry opportunities. Visit www.cedarville.edu/ summerstudies.

Continuing Education

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

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

Typical classes include Reading Rate and Comprehension, EMT-Basic, EMT-Intermediate, and Beginning Sign Language, as well as programs in Faith Community Nursing and STEPS (Seminar Training to Equip People for Service). New courses are periodically added; visit **www.cedarville.edu/continuinged** for current course offerings.

EMT Classes and Special Credit

The Cedarville University Emergency Medical Services Education program was developed by the Center for Lifelong Learning to meet the needs of the Cedarville University EMS squad, local fire departments, and local EMS departments who are providing skilled emergency medical care to the communities they serve. Classes are offered on campus each semester and during the summer. After students complete and obtain state EMTbasic certification, they will be qualified to provide emergent care in a pre-hospital setting to their level of certification. The program is based upon the National Standard Curriculum EMT Basic 1994, prepared by the U.S. Department of Transportation.

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

In 2004 the University was granted authorization to conduct EMT-basic training by the State Board of Emergency Medical Services (Accreditation #387). Re-accreditation was granted in 2007 for another three years. Accreditation for EMT-Intermediate and EMT-Paramedic was granted in 2008.

Summer Terms

The University offers many courses online in the summer in addition to the two sessions on campus. Students can earn up to six credits in the three-week May Term that begins the week after graduation. A two-week session is held in June in which three credits can be completed.

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.

Continuing students interested in attending summer school should contact the Center for Lifelong Learning. New students should contact the admissions office. Visit **www.cedarville.edu/ summerschool**.

International Study Opportunities

Students are encouraged to take advantage of a semester-long or year-long program at one of Cedarville's satellite campuses or to participate in one of our own special summer programs. Participants remain enrolled at Cedarville, continue to receive financial aid, and take classes for Cedarville credit. Semester/Year programs are mainly open to juniors and seniors. The Cedarville summer study programs are open to all students. Advanced planning is highly recommended. For additional information and help with planning, contact the office of international programs (OIP) at **www.cedarville.edu/internationalprograms**. Preapproval from OIP. must be received before students can participate in any of the programs.

Cedarville has cooperating agreements with the following groups/programs. Opportunities to study abroad or in the U.S. are available in more than 40 countries and 118 locations through these agreements. Restrictions apply to some of the programs.

- Brethren Colleges Abroad (BCA): www.bcanet.org
- Central College Abroad (CCA): www.central.edu/abroad
 Council of Christian College and Universities (CCCU):
- www.bestsemester.com
- Council of International Educational Exchange (CIEE):
 www.ciee.org
- Creation Care Study Program (CCSP): www.creationcsp.org
- Dublin Business School and School of Humanities (DBS): www.dbsstudyabroad.org
- Focus on the Family Institute (FFI): www.focusinstitute.orgHandong Global University:
- www.handong.edu/n_english/default.asp
- IBEX (The Master's College in Israel): www.ibexsemester.com
- International Business Institute (IBI): www.messiah.edu/departments/business/ibi
- Jerusalem University College (JUC): www.juc.edu
- Oxford Study Abroad Program (OSAP): www.osapabroad.com
- Romanian Studies Program (RSP) for social work majors: www.veritas.ro/veritas.php
- Spain: For semester program see below. Summer study is through the Institute of Spanish Studies in Valencia, Spain: www.spanish-studies.com

Additional Programs through the office of international programs

Cedarville Semester in D.C. - www.cedarville.edu/dcsemester

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

Cedarville in Spain

In cooperation with the International Study in Seville (ISIS) program and the University of Seville, Cedarville students have the opportunity to study in a customized program during spring semesters in Seville, Spain. In addition to taking courses at the University of Seville, students will take courses with Cedarville professor Dr. Andrew Wiseman.

Summer Geology of National Parks

Each summer Cedarville professor Dr. John Whitmore teaches a hands-on geology course in one of the national parks. The course fulfills Cedarville's general education physical science course requirement. Dr. Whitmore serves on the board of Creation Research Science Education Foundation (Columbus, Ohio). He is also a member of the Creation Research Society and the Geological Society of America. Summer International Business / International Management

Each summer the department of business administration offers two courses (BUS-3910, International Business and MGMT-3570, International Management, in a study abroad setting from mid May to early June. Students gain experience within international companies while taking one or both of these courses. Previous locations have been China, Ireland, and Spain, with China being the location for May 2010.

Cedarville Summer Abroad Programs

The office of international programs is continually working with professors who desire to teach a specialized course abroad. Each summer there are opportunities for students to take general education and upper-level courses abroad with our own professors. These courses are ideal for students whose majors do not have the flexibility of a semester abroad. Locations vary each summer but usually are in one or two of the following locations:

- China
 - France Germany •
- Ireland

•

•

- Oxford

Israel Spain

Greece

CCTECC Student Teaching Abroad Program

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

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

Au Sable Institute of Environmental Studies

Students enrolled in the environmental biology curriculum may take advantage of courses offered by the Au Sable Institute, including field botany, land resources, limnology, marine biology, animal ecology, and restoration ecology. Students may choose to attend any of five Au Sable Institute locations: Au Sable Great Lakes (Mancelona, Michigan), Au Sable Pacific Rim (Whidbey Island, Washington), Au Sable East (Chesapeake Bay, Virginia), Au Sable Africa (Nairobi, Kenya), and Au Sable India (Tamil Nadu, South India). Au Sable courses provide academic content, field experience, and practical tools for stewardship of creational resources. The Institute grants vocational certificates for environmental analysts, land resource analysts, water resource analysts, and naturalists. Qualified students are awarded the Au Sable Fellowship that normally provides 50% of tuition costs. 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.

ARRIBA

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

Academic Support Services

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

Academic Enrichment Program

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

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

Students with Disabilities

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

Tutorina

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

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:

English and Mathematics Proficiency0-5 hrs I. 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.

English.....(0-3) A. Students may satisfy the English proficiency requirement through any one of the following methods:

- Score 21* or higher on the English section of the ACT; or 1.
- 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 32 or higher on the Cedarville University English Proficiency Examination; or
- 5. Complete a course equivalent to Cedarville University ENG-1000 Basic English with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning prior to matriculation at Cedarville. The credits will not be transferred, but proficiency will be established and enrollment in ENG-1400 Composition will be permitted; or
- 6. Complete a college-level composition course with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or

- 7. If proficiency is not verified by any of the means listed above, the required proficiency must be achieved through a successful completion of the course ENG-1000 Basic English (three semester hours), which is to be taken during the first semester of matriculation. These three credits do not apply toward the 128 credits needed for graduation.

B. Mathematics.....(0-2) Students may satisfy the mathematics proficiency requirement through any one of the following methods:

- Score 19* or higher on the mathematics section of the 1. ACT:or
- Score 500* or higher on the quantitative section of the 2. recentered SAT: or
- Score 53 or higher on the CLEP College Algebra exam; or 3.
- 4. Complete the ALEKS assessment with a score of 100 on the mathematics section and a score of 80 or higher on the algebra section; or



- 5. Complete a course equivalent to DEV-0900 Intermediate Algebra with at least a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. The credits will not be transferred, but proficiency will be established and enrollment in college-level quantitative courses will be permitted: or
- 6. Complete a course equivalent to the Cedarville University GMTH-1020 College Algebra with a grade of "C-" or higher (A = 4.0 system) at another approved institution of higher learning. Proficiency will be satisfied and transfer credit will be awarded; or
- 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 (two semester hours), which should be completed during the first semester of matriculation at Cedarville University and must be completed no later than the last term of the sophomore year. These two credits do not apply toward the 128 credits needed for graduation.

Ⅱ. A. B. C. E. F.	Biblical Education16BEGE-1710 Christian Life and Thought.16BEGE-1720 Spiritual Formation16BEGE-2730 Old Testament Literature16BEGE-2740 New Testament Literature16BEGE-3750 Christian Worldview Development16BEGE-3760 Christian Worldview Integration16	3 3 3 3 2
III. A. B.	Communication6 ENG-1400 Composition COM-1100 Fundamentals of Speech	3
IV. A. B. C.	Humanities9HUM-1400 Introduction to the HumanitiesAny 2000-level literature courseAt least 3 semester hours from the following:**ANTH-1800 Cultural AnthropologyART-1100 Introduction to ArtBEPH-2200 Introduction to PhilosophyBEPH-2250 EthicsBEPH-2260 Religion and CultureCOM-2300 Voices of DiversityCOM-2140 Intercultural CommunicationCOM-2140 Intercultural CommunicationCOM-2140 Dhilosophy of EducationEDUC-2400 Children's LiteratureEDUC-2400 Children's LiteratureEDUC-4500 Philosophy of EducationEGGN-3110 Professional EthicsHLMU-2310 Introduction to Music LiteratureHUM-2430 Enjoyment of MusicNSG-3050 Behavioral and Mental Health CarePYCH-3720 Psychology of Personality	3 3 3 3 3 3 3 3 3 3 3 2 2 3 3 3 6 3
*Sta	THTR-1410 Introduction to Theatre Any second year foreign language course Any other 3-hour literature course Indardized test scores (ACT, SAT) earned more than three years before	4

matriculation will not be accepted to meet the proficiency requirement.

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

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

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Academic Information

V. Global Awareness

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

- Α Pass three years of the same foreign language* in high school or one term of an intermediate college-level foreign language*; or
- Live in a non-U.S. cultural immersion experience for at least Β. one school year after the age of 12; or
- C. Pass two years of the same high school foreign language* or pass the second semester of a college-level foreign language*, and one of the following:
 - A global awareness course selected from the list under 1. letter D below.
 - 2. An approved intercultural experience of at least four weeks.
- Students pursuing a Bachelor of Science (B.S., B.S.Cp.E.,

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

- Pass two years of the same foreign language* in high school; Α. or
- Pass the second semester of a college-level foreign В. language*; or
- Live in a non-U.S. cultural immersion experience for at least C. one school year after the age of 12; or
- D. Complete a global awareness course from the following: ANTH-1800 Cultural Anthropology ARBC-1400 Intro to Arabic Lanaguage and Culture **BEPH-2260 Religion and Culture BUS-2910 International Business** COM-2300 Voices of Diversity COM-2140 Intercultural Communication ECON-3380 Economic Development and Political Economy GEO-3520 World Regional Geography - Eastern HIST-3080 History of Russia and the Soviet Union HIST-3200 History and Politics of Latin America HIST-3210 History and Politics of Asia HIST-3220 History and Politics of the Middle East HIST-3230 History and Politics of Western Europe HIST-3240 History and Politics of Eastern Europe HIST-3250 History and Politics of Central and South Asia HIST-3540 History and Politics of Africa HIST-3750 Social Movements HLMU-3400 Global Music INTL-3190 Global Issues **INTL-3650** International Relations MGMT-3570 International Management MRKT-4620 International Marketing NSG-4200 Culture and Health PYCH-1800 Cross-Cultural Psychology SPAN-3680 Understanding Hispanic Cultures; or Complete an approved intercultural experience of at least four
- E. weeks.

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

VI. Physical Education2 hrs

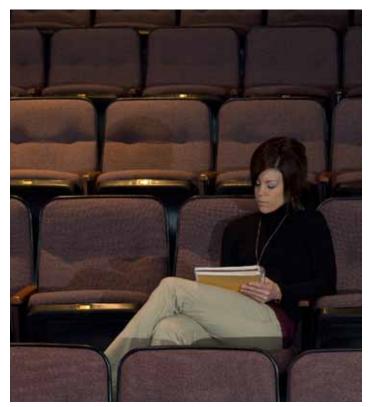
- A. PEF-1990 Physical Activity and the Christian Life1
- One general physical education activity course chosen from Β. PEA-1000 through PEA-21201

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

- One laboratory course from the biological sciences...... 3.5 Α.
- One laboratory course from the physical sciences 3.5 В.
- C. At least three semester hours selected from the following quantitative courses: BUS-2110, 2120 Statistics 4 GMTH-1030 Pre-calculus 4 GMTH-1040 Calculus for Business4 GSS-3630 Data Analysis and Research Methodology 4
- Students pursuing Bachelor of Science degrees (B.S., D. B.S.N., B.S.Cp.E., B.S.E.E., and B.S.M.E.) must complete an additional six semester hours. These hours must be selected from courses with BIO, CHEM, ESCI, GBIO, GSCI, GMTH, MATH, and PHYS designators; decision sciences; statistics; or computer application courses selected from the following:
- VIII. Social Sciences and History9 hrs A second HIST course or
 - Any course with a designator of ANTH**, CRJU, GEO, INTL, POLS, PUAD, SOC, and SWK or PYCH-1600 General Psychology

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

Total General Education Requirements...... 52-63 Many of these courses also satisfy the requirements for major fields of study.



General Education Course Sequence

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

Because of the importance of several of the requirements to all students, the following six courses must be completed before the beginning of the junior year or before a student earns 61 semester hours:

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

Course Load

Assuming that proficiency requirements have been satisfied, a minimum of 128 semester hours is required for graduation. A student should average at least 16 credit hours each semester to graduate upon completion of the 8th semester. A normal course load is 15-18.5 hours each semester. Students working more than 20 hours per week are advised not to carry a full course of studies.

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

To request 19-21.5 credit hours

- The following students require advisor approval:
 - · SENIORS with at least a 2.3 cumulative GPA
 - SOPHOMORES and JUNIORS with at least a 2.5 cumulative GPA
 - FRESHMEN with at least a 2.7 cumulative GPA
 - All students without a Cedarville University GPA who scored at least a 25 or equivalent on the ACT
- The following students require department 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



Credit By Examination Advanced Placement

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

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

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

College Level Examination Program (CLEP)

Students earn credit through CLEP by taking nationally standardized examinations in a variety of subject areas. These tests may be taken at local colleges before enrolling at Cedarville or at Cedarville after enrolling. To have CLEP scores sent directly to Cedarville University, students should enter code number 1151 on their CLEP registration forms. An official copy of the score report must be received before CLEP credit will be evaluated and recorded. By earning scores above specified levels, students receive college credit in specific course areas. Up to 40 semester credits may be earned through this program or by other testout procedures. A complete list of the appropriate tests and respective Cedarville courses, as well as registration information, is available from the admissions office, the office of the registrar, or the University 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.

Institutional Test Out

Qualified students may earn credit toward graduation by passing the appropriate examinations with a grade of B or better. A student interested in testing out should obtain a course test-out form from the office of the registrar, obtain the approval of the chair of the department in which the course is offered, and contact the instructor of the course to schedule the test. A student may not test out of a course previously audited. Tests must be taken during registration week or during the first two full calendar weeks of the semester.

Upon testing out of a course, a student must pay one-half tuition for the course credit. Credit for the course and a designation of test-out will appear on the student's transcript with a grade of CE (credit by examination). This grade is not computed into the cumulative grade point average. Credits earned by test-out during a semester do not count toward the 12 semester hours required for full-time status. No student may earn more than 40 semester hours of test-out credit through tests administered at the University, CLEP, AP, IB, or any other recognized testing agency. Hours earned by test-out do not count as hours in residence toward graduation with honors.

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.

Distance Education

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

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

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

Transient Study

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

Registration for Classes

Continuing at the University

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

Enrolled students register for fall semester courses at the end

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

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

Course Registration

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

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

A registration access code is required to complete the online registration process. This code is assigned by the computer services office prior to each registration period and is given to the student's academic advisor. The registration access code may be utilized by the academic advisor to complete the student's registration during the advising process, or the advisor may give the code to the student to enable the student to complete the registration process from another computer. After the online registration process has been completed, the student's confirmed schedule becomes an active registration in the administrative computer system.

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

Adding and Withdrawing from a Course

Students are responsible to verify the accuracy of their course registration at the beginning of each semester. All registrations must be finalized by the end of the second week of the semester. No classes may be added after this time unless approval is granted from the course instructor, 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 within seven calendar days after classes begin. After this time, a drop/add form is required to complete a schedule change. Forms for course changes are available in the office of the registrar and must be signed by both the course instructor and the student's academic advisor. The student is required to make up any work missed due to late entrance. Changes in a schedule caused by cancellation of courses will not result in financial penalty.

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

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

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

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

Independent Study

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

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

 Only one independent study project may be undertaken in an academic term, unless permission is granted from the department chair and dean of the student's primary major.

- 2. The maximum credit that may be earned for an independent study project is three semester hours.
- 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 six semester hours in independent study may be counted toward the major field, no more than three semester hours toward a minor field, and no more than 12 semester hours toward graduation. Independent study taken outside major and/or minor fields must be approved by the department chair 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.

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 chair for details.

Out-of-Class Courses

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

- 1. The course must be 2000-, 3000-, or 4000-level.
- 2. Students must obtain approval from the department chair, the faculty member teaching the class, and the advisor.

Out-of-class course approval forms are available in the office of the registrar. Exceptions to the course level requirement listed above must be approved by the respective faculty member, advisor, and department chair.

Course Numbers and Designations

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

- The first number indicates the year in which the course is usually taken. Freshmen 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.
- 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 and theological studies.

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: 2008-09 is an even year.

Grading System

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

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:

- A student of any classification may choose to earn credit/ no credit or a letter grade in one semester hour, non-major physical education courses. This choice may be made at the end of the semester.
- 2. To earn credit, a student must maintain an average of "C" or better in the course.
- 3. A student must be at least a junior in classification (have earned at least 61 semester hours) to take an elective course on a credit/no credit basis. An elective is a course that will not count toward the student's general education, major, minor, or cognate requirements.
- 4. A student may take just one elective course per term under the credit/no credit designation.
- 5. The total number of courses (other than one-hour physical education courses) that may be taken under the credit/no credit designation is determined by the student's cumulative grade point average:
 - 2.0-2.49 one course
 - 2.5-2.99 two courses
 - 3.0-3.49 four courses
 - 3.5 and above six courses
- 6. A student taking an elective course who wishes to change from the credit/no credit designation to the regular grading designation must do so before the end of the fourth week of the semester.
- 7. A student who wishes to change an elective course to the credit/no credit designation must do so before the end of the first full calendar week of the semester.



Academic Information

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

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

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

Academic Progress, Warning, and Suspension

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

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

Academic Progress Chart

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

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

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

Any student who does not meet the minimum cumulative grade point average required for academic probation will be suspended for at least one semester. Any student on academic probation for two successive semesters who is not making satisfactory academic progress is subject to academic suspension. Any student whose term grade point average is not above 1.0 for two successive semesters and who is not making satisfactory academic progress is subject to suspension. The dean of a school may make exceptions to the academic progress guidelines when appropriate. A student receiving veterans benefits who is on academic probation for two successive semesters without making satisfactory progress will be reported to the Veterans Administration. The veterans benefits for such a student will be terminated unless the student is making progress toward meeting the minimum academic requirements for graduation.

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

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

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

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

Repeating Courses

While adjusting to academic life at Cedarville, some new students earn grades they consider to be unsatisfactory. Consequently, any students who earn an unsatisfactory grade as a freshman (student with fewer than 31 credits) may repeat the course at Cedarville University before the end of their sophomore year (student with 31 to 60 credits). Under this freshman repeat policy, the cumulative grade point average will be recalculated using the second grade instead of the first.

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.



Academic Honors

Dean's Honor List

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

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

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

Dean's List

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

- 1. A student must maintain a 3.50 average for the semester.
- A student must be carrying at least 12 semester hours, excluding CR hours. Exceptions are made for those enrolled in field experiences or internships granting credit/ no credit, provided they take at least two regularly graded courses.
- 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, 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.

Withdrawing From the University

Proper withdrawal from the University begins in the office of the registrar, where the student completes an official withdrawal form. Refund requests should be submitted to the business office at least three days prior to withdrawal. A student's ID card and dorm key must be returned to the office of the registrar on the last day the student is on campus. No student should leave Cedarville University without completing proper withdrawal through the office of the registrar.

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

Withdrawal for Military Reasons

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

Tuition: 100% Room: prorated on a per diem basis Board: prorated on a per diem basis Fees: 0

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

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

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

Family Educational Rights and Privacy Act

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













School of Biblical and Theological Studies

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

Departments:

• Biblical and Theological Studies

School of Humanities

Dean: **Steven Winteregg**, 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.

Departments:

- Communication Arts
- History and Government
- Language and Literature
- Music, Art, and Worship

School of Natural and Applied Sciences

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:

- Business Administration
- Engineering and Computer Science
- Nursing
- Science and Mathematics

School of Pharmacy

Dean: **Marc Sweeney**, Professor of Pharmacy Practice. *Education:* B.S. Pharm., Ohio Northern University, 1993; Pharm.D., The Ohio State University, 1997; M.Div., Southwest Bible College and Seminary, 2006.

Departments:

- Pharmacy Practice
- Pharmaceutical Sciences

School of Social Sciences and Human Performance

Dean: **Pamela Diehl Johnson**, Senior Professor of Exercise and Sport Science. *Education:* B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

Departments:

- Education
- Exercise and Sport Science
- Psychology
- Social Work, Criminal Justice, and Sociology
- Campus Recreation
- Intercollegiate Athletics

Department of

Biblical and Theological Studies

School of Biblical and Theological Studies

Mission Statement

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

As a 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, preseminary 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 Christ-like character, which would provide a platform for authentic spiritual leadership. In addition to classroom expectations, students should seek to gain as much practical experience in ministries as possible. Biblical and theological studies majors find the opportunities provided by 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 and theological studies, 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 and Thological Studies offers the following programs:

Pastoral Studies

Youth Ministries

• Philosophy and Religion

Philosophy Preseminary Bible

Preseminary

Women's Ministry

Youth Ministries

Majors

- Bible Teacher Education
- Christian Education
- Comprehensive Bible
- International Studies-Missiology

Minors

- Bible
- Christian Education
- Greek
- Missions
- Special Program
 - One-Year Bible Certificate

Technical Resources

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

Co-Curricular Opportunities

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

Chi Delta Nu

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

Timilathians

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

Career Opportunities

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

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



Biblical and Theological Studies

School of Biblical and Theological Studies

Faculty

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

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

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

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

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

Paul Dixon, Chancellor; Professor of Bible. *Education:* B.A., Tennessee Temple University, 1961; M.Div., Temple Baptist Theological Seminary, 1964; D.D., Tennessee Temple University, 1978; LL.D., Liberty University, 1984; Ed.D., The University of Cincinnati, 1986. At Cedarville since 1978.

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

Daniel Ebert, Professor of Bible. *Education:* B.A., Clearwater Christian College; M.Div., Asian Theological Seminary; Th.M. Biblical Theological Seminary; Ph.D., Trinity Evangelical Divinity School. At Cedarville since 2008.

Joy Fagan, Assistant Professor of Bible. *Education:* B.A., Cedarville College, 1989; M.R.E., Grand Rapids Baptist Seminary, 1999; Ed.D. Southern Seminary, 2005. At Cedarville since 1994. **Timothy Gombis**, Assistant Professor of Bible. *Education:* B.S., Liberty University, 1994; M.Div., The Master's Seminary, 1997; Th.M., The Master's Seminary, 2000; Ph.D., University of St. Andrews (Scotland), 2005. At Cedarville since 2004.

Shawn Graves, Assistant Professor of Philosophy. *Education:* B.A., Cedarville University, 2000; M.A., Ohio University, 2002; M.A. University of Rochester, 2006; All work completed for Ph.D. except dissertation, University of Rochester. At Cedarville since 2007. **Donald Grigorenko**, Associate Professor of Bible. *Education:* B.S., The Ohio State University, 1977; Grad Certificate, Multnomah School of the Bible; Th.M., Dallas Theological Seminary, 1986; Ph.D., Trinity Evangelical Divinity School, 2004. At Cedarville since 2001.

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

Aaron James, Assistant Professor of Theology. *Education:* B.A., Oklahoma Baptist University 1999; M.A., Southwestern Baptist Theological Seminary, 2001; M.A., University of Oklahoma, 2003; All work completed for Ph.D. except dissertation, University of Dayton. At Cedarville since 2007.

Chris Miller, Senior Professor of Bible. *Education:* B.A., Tennessee Temple University, 1976; Th.M., Grace Theological Seminary, 1981; Ph.D., Dallas Theological Seminary, 1993; graduate study, Institute of Holy Land Studies (Jerusalem, Israel), 1992. At Cedarville since 1991. **Robert Milliman**, Professor of Bible. *Education:* B.S., Pillsbury Baptist Bible College, 1980; B.A., University of Minnesota, 1982; M. Div., Central Baptist Theological Seminary, 1984; Th.M., Central Baptist Theological Seminary, 1987; Ph.D., Trinity Evangelical Divinity School, 1997. At Cedarville since 2004.

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

Michael Parrott, Assistant Professor of Bible. *Education:* B.S., California Polytechnic State University, 1974; M.Div., Western Conservative Baptist Seminary, 1981. At Cedarville since 2004. **Ryan Peterson**, Assistant Professor of Theology. *Education:* B.A. Moody Bible Institute, 1998; M.A. Christian Apologetics, Biola University, 2001; M.Th. University of Edinburgh (Scotland), 2004; All work completed for Ph.D. except dissertation, Wheaton University. At Cedarville since 2007.

Carl Smith, Professor of Bible. *Education:* B.A., Tennessee Temple University, 1979; M.Div., Temple Baptist Theological Seminary, 1983; M.A., Miami University, 1992; Ph.D., Miami University, 2001. At Cedarville since 2007.

Brock Weston, Instructor of Bible. *Education:* B.A., Cedarville University, 2002; M.Div., The Southern Baptist Theological Seminary, 2007. At Cedarville since 2008.

John White, Assistant Professor of Bible. *Education:* B.S., Indiana University, 1989; M.Div., Trinity International University, 2000; M.A., Trinity International University, 2001; All work completed for Ph.D. except dissertation, University of Edinburgh (UK). At Cedarville since 2008.

Jack Riggs, Senior Professor of Bible Emeritus. *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 1967-2007.

Richard Durham, Professor Emeritus of Bible and Greek. Education: A.B., Wheaton College, 1950; B.D., Faith Theological Seminary, 1953; S.T.M., Faith Theological Seminary, 1960; Th.D., Grace Theological Seminary, 1981. At Cedarville from 1976-1991. Jean Fisher, Associate Professor Emerita of Church Education. Education: B.R.E., Baptist Bible Seminary, 1956; M.A., Wheaton College, 1961; graduate study, Southwestern Baptist Theological Seminary, summer 1965. At Cedarville from 1956-1991.

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

Bible Teacher Education

The **Bible teacher education major** is designed to prepare students who anticipate teaching Bible primarily in a Christian high school. It will also prepare students who pursue further graduate theological education to teach Bible at an undergraduate institution.

Course requirements involve 92-94 semester hours including:
General Education 16
BEGE-1710 Christian Life and Thought
BEGE-1720 Spiritual Formation
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
BEGE-3750 Christian Worldview Development2
BEGE-3760 Christian Worldview Integration
Bible Teacher Education Core40
BECE-2400 Interpreting and Teaching the Bible
BECE-3700 Campus Ministries 4
BECE-4100 Leadership of Christian Ed Ministries
BEDU-3110 Clinical Teaching in Bible1
BENT-3110 Jesus and the Gospels
BENT-4110 Romans and Galatians
BEOT-3110 Pentateuch
BEOT-3150 Wisdom Literature3
BEPH-2200 Introduction to Philosophy
BEPT-2400 Personal Evangelism
(or BEPT-3410 Discipleship3)
BEST-4310 Hermeneutics
BEST-4910 Seminar in Bible2
BETH-XXXX Theology Elective
Professional Education Requirements
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5
EDSE-4450 Adolescent/Young Adult Clinical Experience 3
*EDSE-4900 Student Teaching and Seminar: AYA 10-12
EDSP-2000 Teaching Children with Exceptionalities
EDSP-2050 Special Education Field Experience 1
EDSP-4000 Principles of Inclusion1
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian School0
EDUC-2000 Introduction to Teaching 2
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience 1
EDUC-2500 Educational Psychology
EDUC-4000 Reading in the Content Area
(or ENG-3300 Developmental Reading
EDUC-4500 Philosophy of Education2
*Capstone Course

Bible Education Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	33-41
Bible Education Requirements	
Education Requirements	
Electives	0-3
Total (minimum, not including proficiency).	

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

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

First year:
BEGE-1710 Christian Life and Thought
BEGE-1720 Spiritual Formation
COM-1100 Fundamentals of Speech
EDUC-1000 The Education Profession1
ENG-1400 Composition
GSS-1100 Politics and American Culture
HUM-1400 Introduction to the Humanities
PEF-1990 Physical Activity and the Christian Life
PYCH-1600 General Psychology
History/Global Awareness Elective
Literature Elective
Total
Second year:
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature3
BEPH-2200 Introduction to Philosophy3
BEPT-2400 Personal Evangelism
EDUC-1050 Contemporary Christian School0
EDUC-2000 Introduction to Teaching2
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience1
EDUC-2500 Educational Psychology
EDSP-2000 Teaching Children with Exceptionalities2
EDSP-2050 Special Education Field Experience1
RETH XXXX Theology Elective 2
BETH-XXXX Theology Elective
Physical Education Elective1
Physical Education Elective
Physical Education Elective1
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5
Physical Education Elective
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BEOT-3110 Pentateuch 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BEOT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 36 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33 Fourth year: 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 33 Fourth year: 8 BECE-3700 Campus Ministries 4
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 33 Fourth year: 4 BECE-3700 Campus Ministries 4 BECE-4100 Leadership of Christian Ed Ministries 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 3 BECE-3700 Campus Ministries 4 BECE-4100 Leadership of Christian Ed Ministries 3 BEDU-3110 Clinical Teaching in Bible 1
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BEST-4310 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 3 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
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 3 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
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4400 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Fourth year: 3 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 BEGE-3760 Christian Worldview Integration 2 BERT-4110 Romans and Galatians 3
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 BECE-2400 Interpreting and Teaching the Bible 6 BENT-3110 Jesus and the Gospels 3 BECT-3110 Pentateuch 3 BEST-4310 Hermeneutics 3 EDSE-4100 Principles of Teaching: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33 Fourth year: 3 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
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33 Fourth year: 3 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 BEOT-3150 Wisdom Literature 3 BEOT-3150 Seminar in Bible 2
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 30.5 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDUC-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33 Fourth year: 3 BECE-3700 Campus Ministries 4 BECE-3700 Campus 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 BEST-4910 Seminar in Bible 2 EDSE-4900 Student Teaching and Seminar: AYA 10-12
Physical Education Elective 1 Physical Science Elective 3.5 Total 30.5 Third year: 3 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: Adolescent and Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience 3 EDUC-4000 Reading in the Content Area 3 EDSP-4000 Principles of Inclusion 1 Quantitative Elective 3 Elective 3 Total 33 Fourth year: 3 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 BEOT-3150 Wisdom Literature 3 BEOT-3150 Seminar in Bible 2

Biblical and Theological Studies School of Biblical and Theological Studies

Comprehensive Bible The comprehensive Bible major provides students with a broad knowledge of the Bible and basic skills for teaching the Bible.

Course requirements involve 60 semester hours including: General Education	16
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	3
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
Comprehensive Bible Core	
BECE-4100 Leadership in Christian Educ. Ministries	3
BECE-XXXX Elective	3
BENT-XXXX New Testament Electives	6
BEOT-XXXX Old Testament Electives	6
BEPH-2200 Introduction to Philosophy	3
BEPH-XXXX Elective	3
BEPT-XXXX Practical Theology Electives	6
*BEST-4910 Seminar in Bible	
BEST-XXXX Elective	3
BETH-XXXX Theology Electives	6
Bible Electives	3
*Capstone Course	

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
PYCH-1600 General Psychology	3
SOC-2400 Marriage and the Family	

Comprehensive Bible Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Comprehensive Bible Major Requirements	
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Comprehensive Bible

First year: BEGE-1710 Christian Life and Thought
Second year: BECE-4100 Leadership in Christian Educ. Ministries
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 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

Christian Education

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

Course requirements involve 75 semester hours including:	
General Education	16
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	
Christian Education Core	
BECE-1000 Orientation to Bible Ministries	1
BECE-2400 Interpreting and Teaching the Bible	6
BECE-3680 Children's Ministries	
BECE-3700 Campus Ministries	
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	ed)3
BEPT-2400 Personal Evangelism	3
BEPT-3410 Discipleship	3
BETH-2350 Theological Foundations of Ministry	3
**BETH-XXXX Theology Elective (BETH-3330 recommended)	

Select one of the following ministry concentrations
Children's Ministries
EDEC-2100 Art, Music, and Drama for Early Childhood2
EDSP-2500 Survey of Mental Retardation and
Developmental Disabilities1
EDUC-2400 Children's Literature2
EDUC-3990 Independent Study Education1
Church Music Ministries6
CHMU-2060 Music and the Arts in Worship
One course from the following3
CHMU-2600 Music of the Church
CHMU-3630 Administering Church Music I
CHMU-3640 Administering Church Music II
**Cross-Cultural Ministries
BEPT-3450 Contemporary World Missions
BEPT-3470 Cross-Cultural Ministry3
BEPT-3510 Introduction to Urban Ministry
BEPT-4510 Advanced Urban Ministry
Sports Ministries6
BECE-2100 Wilderness Ministry3
CCHG-3670 Fundamentals of Coaching
ESSE-1350 Foundations of Sports Ministries
ESSE-2810 Introduction to Camping2
ESSE-2830 Recreational Leadership2
SMGT-2500 Organizational Behavior in Sport

Women's Ministries	6
BEST/BETH-2920 Scriptural Interpretations of Gender	
Issues and Roles	3
BEPT-3480 Women's Communication for Ministry	3
COM-3150 Gender, Politics, and Communication	3
*Capstone Course	

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

Christian Education Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Christian Education Major Requirements	75
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Christian Education

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BECE-1000 Orientation to Bible Ministries 1 BEGE-1710 Christian Life and Thought 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 English Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 1 Biology Elective 3.5 History/Global Awareness Elective 3.5	
Social Science Elective	
Second year: BECE-2400 Interpreting and Teaching the Bible BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature 3BETH-2350 Theological Foundations of Ministry 3Literature Elective 3Ministry Concentration Electives 6 Philosophy Elective 3 Physical Education Elective 3 Total	
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 26	
Summer: BECE-4500 Internship in Christian Education10-12	2
Fourth year: BECE-4100 Leadership of Christian Education Ministries New Testament Elective Old Testament Elective Theology Elective Minor Requirement or Electives 12-14 Total 24-26	; ; ;

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
BEGE-1720 Spiritual Formation
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
BEGE-3750 Christian Worldview Development
Pastoral Studies Core
BECE-4100 Leadership in Christian Educ. Ministries
BENT-XXXX New Testament Elective
BEOT-XXXX Old Testament Elective
BEPH-2200 Introduction to Philosophy
BEPT-2420 History of Mission
(or BEPT-3450 Contemporary World Missions
BEPT-3420 Pastoral Ministry
BEPT-3430 Pastoral Counseling3
BEPT-3500 Homiletics
*BEPT-4400 Pastoral Internship 10-12
BEPT-4560 Advanced Homiletics3
BEST-XXXX Special Topics Elective
BETH-XXXX Theology Electives6
*Capstone Course

Suggested Electives:

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

Pastoral Studies Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Pastoral Studies Major Requirements	61
Electives	
Total (minimum, not including proficiency)	128

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

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

•
First year: BEGE-1710 Christian Life and Thought. 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture. 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 1 Biology Elective 35 History Elective 3 Literature Elective 3 Physical Education Elective 1 Physical Science Elective 35 Total 33
Second year: BECE-4100 Leadership in Christian Educ. Ministries. 3 BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 BEPH-2200 Introduction to Philosophy 3 BEPT-2420 History of Mission 3 Quantitative Elective 3 Social Science Elective 3 Electives 9 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 Electives 9 Total 33
Fourth year: BEPT-4400 Pastoral Internship Special Topics Elective 3 Theology Elective 3 Electives 14-16 Total 32



Philosophy

The philosophy major provides students with the rich conceptual background and analytical skills instrumental in developing a philosophically defensible, biblically faithful, and theologically sound worldview. Students will cultivate a healthy intellectual curiosity as they gain knowledge of the history of Western philosophy and an awareness of the contemporary Western philosophical scene. Students will also acquire the ability to read, state, discuss, and evaluate clearly and charitably major philosophical theories found in the various branches of philosophy. Finally, students will develop the skills necessary to read carefully and listen graciously to alternative worldviews as they formulate precisely and defend rigorously their own Christian worldview.

Course requirements involve 43 semester hours including:

Philosophy Core	20
BEPH-2200 Introduction to Philosophy	
BEPH-2240 Logic	3
BEPH-2250 Ethics	
BEPH-2260 Religion and Culture	
BEPH-3250 Philosophy of Religion	
BEPH-3310 History of Ancient and Medieval Philosophy	
BEPH-3320 History of Modern Philosophy	
BEPH-3330 19th Century Philosophy.	
BEPH-3340 Current Philosophical Developments	3
*BEPH-4910 Seminar in Philosophy	
Philosophy Electives selected from the following	14
BEPH-3240 Epistemology	
BEPH-3260 Symbolic Logic	
BEPH-3280 Metaphysics	
BEPH-3400 Philosophy of Law and Economics	
BEPH-4030 Philosophy and Literature	
BEPH-4260 Philosophy of Art	
BEPH-4290 Topics in Philosophy	
BEPH-4900 Independent Study in Philosophy	
BETH-3330 Christian Evidences and Apologetics	
BETH-4320 Contemporary Theology	3
*Capstone Course	

Suggested Electives:

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

Philosophy Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Philosophy Major Requirements	43
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Philosophy

First year: BEGE-1720 Spiritual Formation3 BEPH-2200 Introduction to Philosophy3 PEF-1990 Physical Activity and the Christian Life1 Physical Education Elective.....1 Second year: BEGE-2730 Old Testament Literature3 Third year: BEGE-3750 Christian Worldview Development......2 BEGE-3760 Christian Worldview Integration2 BEPH-3320 History of Modern Philosophy......3

Fourth year:

BEPH-3340 Current Philosophical Developments	.3
BEPH-4910 Seminar in Philosophy	.2
Philosophy Electives	
Electives	22
Total	32



School of Biblical and Theological Studies

Preseminary Bible

The **preseminary Bible major** provides students with a broad, integrated foundation in the various disciplines central to a life of service in vocational ministry—philosophy, theology, ecclesial history, and biblical studies. Students will cultivate a deeper commitment to a God-centered vision of ministry by gaining knowledge of the issues, major voices, and methodologies necessary to responsibly engage past and contemporary discussion on the theory and practice of vocational ministry. Students will also acquire the skills of incisive and gracious critique, of employing methodologies and languages in a manner that furthers the discussion of the nature and practice of a life of service, and of translating theology into life and ministry.

Course requirements involve 44 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-4100 Leadership in Christian Educ. Ministries	3
BENT-XXXX New Testament Elective	3
BEOT-XXXX Old Testament Elective	3
BEPH-2200 Introduction to Philosophy	3
BEPT-2400 Personal Evangelism	3
(or BEPT-3410 Discipleship	3)
BEST-4310 Hermeneutics	
*BEST-4910 Seminar in Bible	2
BETH-XXXX Theology Elective	3

Preseminary Concentration.....5

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

Required Minor in Biblical Greek	16
BEBL-2510, 2520 Elementary Greek I and II	
BEBL-3510, 3520 Intermediate Greek I and II	
*Capstone Course	

Recommended Minor

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

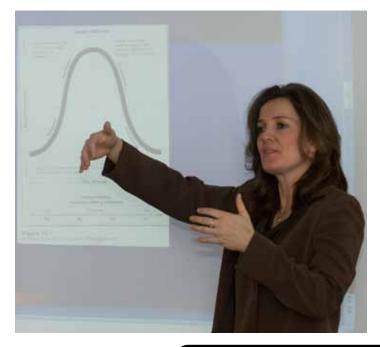
Preseminary Bible Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	33-41
Preseminary Bible Major Requirements	44
Required Minor	
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Preseminary Bible

First year: BEGE-1710 Christian Life and Thought
Second year: BECE-4100 Leadership in Christian Educ. Ministries. 3 BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 BEPH-2200 Introduction to Philosophy 3 Old Testament Elective 3 Quantitative Elective 3 Social Science Elective 3 Electives 9 Total 30
Third year: BEBL-2510,2520 Elementary Greek
Fourth year:BEBL-3510,3520 Intermediate Greek6BEPT-2400 Personal Evangelism3(or BEPT-3410 Discipleship3)BEST-4310 Hermeneutics3BEST-4910 Seminar in Bible2Theology Elective3Preseminary Concentration Electives5Electives11Total33



Youth Ministries

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

other related graduate programs. Course requirements involve 74 semester hours including: BEGE-1710 Christian Life and Thought......3 BECE-1000 Orientation to Bible Ministries1 BECE-2200 Introduction to Youth Ministry......2 BECE-3680 Children's Ministries......4 BECE-3720 Adult Ministries 4 BECE-4100 Leadership of Christian Educational Ministries..... 3 *BECE-4750 Internship in Youth Ministry 10-12 **BEPH-XXXX** Philosophy Elective

(BEPH-2200 recommended)	
BEPT-2400 Personal Evangelism	
BEPT-3410 Discipleship	
BETH-2350 Theological Foundations of Ministry	
BETH-XXXX Theology Elective (BETH-3330 recommended) 3	
Select one ministry elective from the following:	3
BECE-2100 Wilderness Ministry	
BECE-3510 Small Group Ministry	
BEPT-3480 Women's Communication for Ministry	
BEPT-3510 Introduction to Urban Ministry	
BEST/BETH-2920 Scriptural Interpretations of Gender	
Issues and Roles	
ESSE-2810 Introduction to Camping 2	
*Capstone Course	

Youth Ministries Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Youth Ministries Major Requirements	74
Electives	
Total (minimum, not including proficiency)	

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

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

First year: BECE-1000 Orientation to Bible Ministries 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-1100 Politics and American Culture. 3 HUM-1400 Introduction to the Humanities. 3 PEF-1990 Physical Activity and the Christian Life 1 Biology Elective 3.5 Physical Science Elective 3.5 Quantitative Elective 3 Total
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 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 Ministry10-12
Fourth year: BECE-4100 Leadership of Christian Educational Ministries



School of Biblical and Theological Studies

International Studies – Missiology

The **international studies majors** are interdisciplinary programs (pages 115–116) that prepare students for a variety of internationally focused careers. The missiology concentration provides students with a missiological view of the international community. Students will cultivate a deeper commitment to the global mission task as they gain knowledge in contemporary global issues, past and present mission thinking and practice, as well as the opportunities and challenges to doing missions in today's world. Students will also develop skills in understanding other cultures and living competently in another culture for the purpose of ministry.

Course requirements involve 21 semester hours of core requirements and 42 hours of concentration requirements. See the major: "International Studies" (page 116) for details on other concentrations.

International Studies Core Requirements
12ANTH 1900 Cultural Anthropology
^{1,2} ANTH-1800 Cultural Anthropology
² BEPH-2260 Religion and Culture
BUS-3910 International Business
² COM-2140 Intercultural Communication
(or PYCH-1800 Cross Cultural Psychology
GEO-3510 World Regional Geography – Western
(or GEO-3520 World Regional Geography – Eastern
³ HIST-2010 History of Civilization I
(or HIST-2020 History of Civilization II
INTL-3190 Global Issues 3
Missiology Concentration Requirements
BECE-4100 Leadership of CE Ministries
BEPH-2200 Introduction to Philosophy
BEPT-2000 Introduction to Mission
BEPT-2400 Personal Evangelism
BEPT-2420 History of Mission
BEPT-3450 Contemporary World Mission
BEPT-3470 Cross-Cultural Ministry
BEPT-3510 Introduction to Urban Ministry
*BEPT-4500 Missionary Internship
BEST-4310 Hermeneutics
BETH-3330 Christian Evidences and Apologetics
One course in missiology
BEPT-4300 Seminar in Missiology3
BEPT-4560 Advanced Urban Ministry3
Two courses in political science
POLS-3200 History and Politics of Latin America
POLS-3210 History and Politics of Asia
POLS-3220 History and Politics of the Middle East
POLS-3540 History and Politics of Africa
POLS-3650 International Relations
POLS-4050 Issues in International Diplomacy
¹ Satisfies social science General Education Requirement
² Satisfies humanities General Education Requirement

³Satisfies history General Education Requirement

*Capstone Course

International Studies Major-Missiology Concentration Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
International Studies-Missiology Major Requirements	
Electives	14-22
Total (minimum, not including proficiency)	128

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. This program provides personal enrichment through formal Bible study so that the student can participate effectively in the church or a parachurch organization.

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

8	
General Education	
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
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

Bible Minor

The Bible minor , a part of the General Education Requirement, involves 16 semester hours of course work including:	
5	2
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
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 Minor

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

Greek Minor

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

Biblical and Theological Studies School of Biblical and Theological Studies

Mission Minor

The mission minor for the student interested in crosscultural	
ministries involves 18 semester hours including:	
BEPT-2000 Introduction to Mission	3
BEPT-2420 History of Mission	3
BEPT-3450 Contemporary World Missions	3
BEPT-3470 Cross Cultural Ministry	3
At least 6 hours selected from	6
BEPH-2260 Religion and Culture	3
BEPT-2400 Personal Evangelism	3
BEPT-3410 Discipleship	3
BEPT-3510 Introduction to Urban Ministry	3
BEPT-4300 Missiology and Missiologists	3
BETH-3400 Current Religious Movements	

Philosophy and Religion Minor

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

Preseminary Minor

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

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



Women's Ministry Minor

The women's ministry minor involves 18-21 semester hours for students who desires to minister to women in a variety of contexts, through an understanding of the identity, role, and gender-specific needs of women, and through the attainment of the basic skills needed to address those needs and equip women most effectively. Course requirements are:

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

Youth Ministry Minor

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 and theological studies major. These courses may not be taken on an out-of-class basis or by correspondence study.

Department of

Business Administration

Mission Statement

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

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

- To effectively foster academic achievement and personal character, we purpose to create an environment characterized by excellence in teaching, service, intellectual contribution, and collegiality.
- Essential to our mission is the creation of a learning environment that encourages, stimulates, and challenges students and faculty to maximize their personal potential in their chosen field of academic endeavor.
- To facilitate this learning environment, we will use a 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.

Accreditation

The department of business administration is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

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 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 chair.

- 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 chair of the department in consultation with the professor responsible for the subsequent course.
- In general, business majors should complete all 2000-level business core courses before beginning a 3000-level business course.
- Before taking a 4000-level business course, students must have satisfactorily completed all 2000-level business administration core courses required for their major.
 Waivers to this requirement are made only in exceptional circumstances, and such waivers require the approval of the department chair.
- To graduate with a major from the department of business administration, students must earn at least a 2.0 cumulative average in all courses required for their major and at least a "C-" in all courses taken to meet a specific requirement in their major (cognate courses not included).
- Every major and minor offered by the department of business administration requires that a minimum of 50% of the business courses in the business administration core and 50% of the specific business courses required for each major or minor be earned at Cedarville University. Any CLEP or advanced placement credits earned are not considered to be earned at Cedarville University.

Programs of Study

The department of business administration offers the following programs:

- Majors
 - Accounting
 - Finance
 - International Studies: Global Economics and International Business

Minors

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

Co-Curricular Opportunities

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

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

Association of Information Technology Professionals

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

Delta Mu Delta

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

Human Resources Management (SHRM)

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

Students in Free Enterprise

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

Women in Business

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

Career Opportunities

Accounting Major

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

- Auditor
- Controller
- IRS agentFBI agent
- Controller
- Budget analystCPA
- Internal auditChief 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
- TreasurerLending officer
- Financial plannerSecurities analyst
- Portfolio manager
- Chief Financial officer
- 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(n):

- Foreign firm
- Multinational enterprise
- International division of a domestic company
- One of the many government organizations at the national, state, or local level concerned with global business development

Information Systems Major

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

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

Management Major

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

- Human resource manager
- Operations analyst
- Production manager
- Branch manager
- Facility manager
- Risk manager

Marketing Major

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

- Marketing manager
- Marketing researcherPromotion manager
 - anager •
- Retail managerSales manager

Benefits manager

Plant manager

Project manager

Quality manager

Materials manager

Operations manager

Sales representative

Faculty

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

John Delano, Assistant Professor of Information Systems. Education: B.S., Maranatha Baptist Bible College, 1996; M.S., University of Wisconsin - Whitewater, 2001, Ph.D., University of Wisconsin - Milwaukee, ABD. At Cedarville since 2008.

Jeffrey Fawcett, Professor of Marketing. *Education:* B.A., Cedarville University, 1982; M.B.A., University of Baltimore, 1986; D.B.A., Cleveland State University, 1999. At Cedarville since 1987. Jeffrey Guernsey, Assistant Professor of Finance. *Education:* B.S., Purdue University, 1979; M.Sc., Iowa State University, 1981. At Cedarville since 2003.

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.

William Ragle, Associate Professor of Finance. *Education:* B.S., Stephen F. Austin State University, 1976; M.B.A., University of North Texas, 1988; Ph.D., University of North Texas, 1996. At Cedarville since 1995.

Anne Rich, Associate Professor of Accounting. *Education:* B.A., Cedarville University, 1978; M.S., University of Central Florida, 1978; C.P.A., State of Florida, 1979. At Cedarville since 2000. **David Rotman**, Director of Computer Services; Associate Professor of Management Information Systems. *Education:* B.S.,

Taylor University, 1968; M.A.T., Indiana University, 1972; C.D.P., Institute for Certification of Computer Professionals, 1980; Ph.D., Nova University, 1994. At Cedarville since 1984.

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

Business Administration

School of Natural and Applied Sciences

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.

Brian Sturgis, Assistant Professor of Management. *Education:* B.A., Cedarville University, 1987; M.B.A., George Mason University, 1990. At Cedarville since 2009.

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

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

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.

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 and Co. LLP Mr. Ronald Baker, Ron Baker and Associates Mr. Mike Crawford, LifePlan Financial Group, Inc. Mr. John Danis, Danis Building Construction Co. Mr. Ronald Ferner, Philadelphia Biblical University Mr. John Field, Wallace and Turner, Inc. Ms. Georgeann Georges, Global Operations and Service Strategy Miss Lori A. Greenawalt, KPMG LLP Mr. George Guritz, Shepherd Financial Group, Inc. Mr. Gary Habegger, Goodrich Corporation Dr. Rajshekhar Javalgi, Cleveland State University Dr. Wayne Leininger, Virginia Tech Mr. Larry Miller, Ohio Valley Bank Mr. Delmar Mohler, Faith Baptist Bible College Mr. Jeffrey Montie, Kellogg Company Mr. Lorne Scharnberg, KATECHO, Inc. Mr. Russ Weir, IBM Global Services - ITS Public Sector Mr. Randal Wilcox, Otis Elevator International, Inc.

Accounting

The **accounting major** falls under the Bachelor of Arts degree and prepares students for careers in private, public, and corporate accounting as well as other business-related areas.

Course requirements involve 66 semester hours including:Business Administration Core42ACCT-2110, 2120 Principles of Accounting I,II6BUS-2110 Statistics I2BUS-2120 Statistics II2BUS-2180 Business Law3BUS-3150 Operations Analysis2BUS-3910 International Business3BUS-3990 Professional Development (2 semesters)0BUS-4420 Business Ethics and Social Responsibility2BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3Accunting3ACCT-3110 Intermediate Financial Accounting I3ACCT-3150 Accounting Information Systems3ACCT-4110 Federal Income Tax3ACCT-4120 Auditing3AcCT-4130 Advanced Financial Accounting3ACCT-4130 Advanced Financial Accounting3ACCT-4150 Government and Non Profit Accounting3ACCT-4150 Government and Non Profit Accounting3ACCT-4120 Taxation of Business Entities3
ACCT-4150 Government and Non Profit Accounting
·

Required cognate3 GMTH-1040 Calculus for Business and Social Sciences3 (Satisfies mathematics for general education requirements)

Accounting Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Accounting Major Requirements	
Required Cognate	3
Electives	
Total (minimum, not including proficiency)	



The **CPA concentration** reflects the State of Ohio requirements of 150 semester hours of undergraduate or graduate education, including 30 hours of accounting courses combined with several specific business and elective courses. Students desiring to pursue a license in other states should investigate the requirements of those specific states. States with 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 by completing the 128 semester hours plus additional 22 semester hours including some additional accounting electives. The course plan includes the following:

Accounting Major Requirements	
Other Elective Courses	22 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 Accounting3	
ACCT-4210 Taxation of Business Entities	
ACCT-4810 Seminar in Accounting1	
BUS-2100 Business Communication	
BUS-3180 Business Law II3	



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

Suggested Four-Year Curriculum for a Major in Accounting

First year: BEGE-1710 Christian Life and Thought
Second year:ACCT-2110,2120 Principles of Accounting I,II
History Elective

Third year:

milli year.	
ACCT-3110,3120 Intermediate Financial Accounting I,II	6
ACCT-3150 Accounting Information Systems	
ACCT-3170 Managerial Accounting	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BUS-3150 Operations Analysis	2
BUS-3910 International Business	
BUS-3990 Professional Development	0
FIN-3710 Principles of Finance	
MGMT-3500 Principles of Organization and Management	3
MRKT-3600 Principles of Marketing	
Total	30
Fourth year:	
ACCT-4110 Federal Income Taxes	
ACCT-4120 Auditing	3
BUS-4420 Business Ethics and Social Responsibility	2

Total 34.5

BUS-4420 Business Ethics and Social Responsibility	2
BUS-4990 Executive Development	0
MGMT-4510 Administrative Policy and Strategy	3
Humanities Elective	3
Accounting Electives	6
Electives	10
Total	30

Master's Degree Options at Other Universities

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

Finance

The **finance major** falls under the Bachelor of Arts degree and 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.

Required cognate3

Finance Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	49-57
Finance Major Requirements	60
Required Cognate	3
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Finance

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

Second year:

Second year.	
ACCT-2110,2120 Principles of Accounting I,II	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
BUS-2110 Statistics I	
BUS-2120 Statistics II	
BUS-2180 Business Law	
ECON-2330 Microeconomics	
ECON-2340 Macroeconomics	
Literature Elective	
Physical Science Elective	
Social Science Elective	
Total	

Third year:

milli year.	
ACCT-3110 Intermediate Financial Accounting I	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BUS-3150 Operations Analysis	2
BUS-3910 International Business	
BUS-3990 Professional Development	0
FIN-3710 Principles of Finance	
MGMT-3500 Principles of Organization and Manageme	ent 3
MRKT-3600 Principles of Marketing	
Major Requirements	6
Humanities Elective	
Total	30
- <i>u</i>	
Fourth year:	
BUS-4420 Business Ethics and Social Responsibility	
BUS-4990 Executive Development	
MGMT-4510 Administrative Policy and Strategy	
Major Requirements	
Electives	
Total	30

International Studies – Global Economics and International Business

The **international studies – 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 page 115 and 116.

Information Systems

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

Course requirements involve 66 semester hours including:Business Administration Core42ACCT-2110,2120 Principles of Accounting I,II6BUS-2110 Statistics I2BUS-2120 Statistics II2BUS-2180 Business Law3BUS-3150 Operations Analysis2BUS-3910 International Business3
BUS-3990 Professional Development (2 semesters) 0 BUS-4420 Business Ethics and Social Responsibility 2 BUS-4990 Executive Development (2 semesters) 0 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 *MGMT-4510 Administrative Policy and Strategy 3 MIS-1500 Information Technology for Business 2 MIS-1510 Software Tools for Business 2 MRKT-3600 Principles of Marketing 3 Information Systems 18
MIS-2200 Fundamentals of MIS3MIS-2300 Intro to Programming3MIS-3100 Database Development3MIS-3500 Web Development3MIS-3800 System Analysis and Design3MIS-4500 System Development3*Capstone Course3

Information Systems Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	49-57
Information Systems Major Requirements	66
Required Cognate	3
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Information Systems

First year: BEGE-1710 Christian Life and Thought
Second year: ACCT-2110,2120 Principles of Accounting I,II
Third year: BEGE-3750 Christian Worldview Development. 2 BEGE-3760 Christian Worldview Integration 2 BUS-3150 Operations Analysis 2 BUS-3910 International Business 3 BUS-3990 Professional Development. 0 ECON-2330 Microeconomics 3 ECON-2340 Macroeconomics 3 FIN-3710 Principles of Finance. 3 MGMT-3500 Principles of Organization and Management 3 MIS-3800 Systems Analysis and Design 3 MIS-3500 Web Development. 3 MIS-3600 Principles of Marketing 3 MRKT-3600 Principles of Marketing 3
Fourth year: BUS-4420 Business Ethics and Social Responsibility

Management

The **management major** falls under the Bachelor of Arts degree and provides a broad background for careers in financial, manufacturing, retailing, and service industries, as well as governmental agencies. Management majors focus on organizational dynamics and operations as well as international issues that affect various types of organizations. With the broad scope of the management major, students can select courses within their area of interest, whether it be human resources management, operations management, or organizational leadership.

Course requirements involve 60 semester hours includin Business Administration Core		42
ACCT-2110,2120 Principles of Accounting I,II		6
BUS-2110 Statistics I		2
BUS-2120 Statistics II		
BUS-2180 Business Law		
BUS-3150 Operations Analysis		
BUS-3910 International Business		
BUS-3990 Professional Development (2 semesters)		0
BUS-4420 Business Ethics and Social Responsibility		2
BUS-4990 Executive Development (2 semesters)		0
ECON-2330 Microeconomics		3
ECON-2340 Macroeconomics		3
FIN-3710 Principles of Finance		3
MGMT-3500 Principles of Organization and Management		3
*MGMT-4510 Administrative Policy and Strategy		3
MIS-1500 Information Technology for Business		2
MIS-1510 Software Tools for Business		2
MRKT-3600 Principles of Marketing		
Management		9
MGMT-3510 Business Model Development		3
MGMT-3520 Production and Operations Management		3
MGMT-3550 Organizational Behavior		3
Students must also choose an area of interest		
from the following		
Entrepreneurial Studies		9
MGMT-3511 Entrepreneurial Strategy		
MGMT-3512 Entrepreneurial Finance		
MGMT-3513 Entrepreneurial Practicum	3	_
Operations Management		9
MGMT-3560 Project Management		
MGMT-4520 Supply Chain Management		
MGMT-4570 Advanced Operations Management		•
Organizational Management		9
MGMT-3530 Human Resources Management MGMT-4550 Advanced Organizational Behavior		
One course from the following:		
MCMT 2511 Entropropourial Strategy	ປ ົ	
MGMT-3511 Entrepreneurial Strategy MGMT-3512 Entrepreneurial Finance	3	
MGMT-3572 Entrepreneurial Finance		
MGMT-4560 Organizational Change and	5	
Development	З	
MRKT-3560 Project Management		
*Capstone Course	0	

Management Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	49-57
Management Major Requirements	60
Required Cognate	3
Electives	
Total (minimum, not including proficiency).	

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

Suggested Four-Year Curriculum for a Major in Management

First year: BEGE-1710 Christian Life and Thought
Total
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 Biological Science Elective 3.5 Literature Elective 3 Social Science Elective 3 Stal 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 Principles of Finance 3 MGMT-3500 Principles of Organization and Management 3 MGMT-3510 Business Model Development 3 MGMT-3520 Production and Operations Management 3 MGMT-3550 Organizational Behavior 3 MGMT-3560 Principles of Marketing 3 MGMT-3510 Business Model Development 3 MGMT-3520 Production and Operations Management 3 MGMT-3550 Organizational Behavior 3 MGKT-3600 Principles of Marketing 3 Humanities Elective 3 Total 30
Fourth year: BUS-4420 Business Ethics and Social Responsibility2
BUS-4420 Dusiness Ethics and Social Responsibility
Electives
Total

Marketing

The **marketing major** falls under the Bachelor of Arts degree and prepares students for career opportunities in advertising, marketing management, marketing research, and sales with retailers, manufacturers, financial institutions, and nonprofit organizations.

Business Administration Core 42 ACCT-2110,2120 Principles of Accounting I,II 6 BUS-2110 Statistics I 2 BUS-2120 Statistics II 2 BUS-2180 Business Law 3 BUS-3150 Operations Analysis 2 BUS-3990 Professional Development (2 semesters) 0 BUS-4420 Business Ethics and Social Responsibility 2 BUS-4990 Executive Development (2 semesters) 0 BUS-4990 Executive Development (2 semesters) 0 BCON-2340 Macroeconomics 3 FIN-3710 Principles of Finance 3 MGMT-4510 Administrative Policy and Strategy 3 MIS-1500 Information Technology for Business 2 MIS-1510 Software Tools for Business 2 MRKT-3630 Marketing Research 3 MRKT-3650 Buyer Behavior 3 MRKT-4610 Marketing Strategy 3 Marketing Electives 9 *Capstone Course *	Course requirements involve 60 semester hours including:	
ACCT-2110,2120 Principles of Accounting I,II6BUS-2110 Statistics I2BUS-2120 Statistics II2BUS-2180 Business Law3BUS-3150 Operations Analysis2BUS-3910 International Business3BUS-3990 Professional Development (2 semesters)0BUS-4420 Business Ethics and Social Responsibility2BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3MRKT-3600 Principles of Marketing3MRKT-3650 Buyer Behavior3MRKT-4610 Marketing Strategy3Marketing Electives9		42
BUS-2110 Statistics I2BUS-2120 Statistics II2BUS-2180 Business Law3BUS-3150 Operations Analysis2BUS-3910 International Business3BUS-3990 Professional Development (2 semesters)0BUS-4420 Business Ethics and Social Responsibility2BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3MRKT-3630 Marketing Research3MRKT-3650 Buyer Behavior3MRKT-4610 Marketing Strategy3Marketing Electives9		
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BUS-2180 Business Law3BUS-3150 Operations Analysis2BUS-3910 International Business3BUS-3990 Professional Development (2 semesters)0BUS-4420 Business Ethics and Social Responsibility2BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3MRKT-3630 Marketing Research3MRKT-3650 Buyer Behavior3MRKT-4610 Marketing Strategy3Marketing Electives9		
BUS-3150 Operations Analysis2BUS-3910 International Business3BUS-3990 Professional Development (2 semesters)0BUS-4420 Business Ethics and Social Responsibility2BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3MRKT-3630 Marketing Research3MRKT-3650 Buyer Behavior3MRKT-4610 Marketing Strategy3Marketing Electives9		
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BUS-4990 Executive Development (2 semesters)0ECON-2330 Microeconomics3ECON-2340 Macroeconomics3FIN-3710 Principles of Finance3MGMT-3500 Principles of Organization and Management3*MGMT-4510 Administrative Policy and Strategy3MIS-1500 Information Technology for Business2MRKT-3600 Principles of Marketing3MRKT-3630 Marketing Research3MRKT-3650 Buyer Behavior3MRKT-4610 Marketing Strategy3Marketing Electives9		
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*MGMT-4510 Administrative Policy and Strategy 3 MIS-1500 Information Technology for Business 2 MIS-1510 Software Tools for Business 2 MRKT-3600 Principles of Marketing 3 Marketing 3 MRKT-3630 Marketing Research 3 MRKT-3650 Buyer Behavior 3 MRKT-4610 Marketing Strategy 3 Marketing Electives 9		
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MRKT-3630 Marketing Research		
MRKT-3650 Buyer Behavior		
MRKT-4610 Marketing Strategy		
Marketing Electives9		

Required cognate
GMTH-1040 Calculus for Business
(Satisfies mathematics for general education requirements)

Marketing Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	49-57
Marketing Major Requirements	60
Required Cognate	3
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Marketing

First year: BEGE-1710 Christian Life and Thought
Second year: ACCT-2110,2120 Principles of Accounting I,II

Third year:

Inira year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BUS-3150 Operations Analysis	2
BUS-3910 International Business	
BUS-3990 Professional Development	0
FIN-3710 Principles of Finance	
MGMT-3500 Principles of Management	
MRKT-3600 Principles of Marketing	
MRKT-3630 Marketing Research	
MRKT-3650 Buyer Behavior	
Marketing Elective	
Social Science Elective	
Total	30
Fourth year:	
BUS-4420 Business Ethics and Social Responsibility	2
BUS-4990 Executive Development	0

rounn your.	
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	
Electives	
Total	30



Minors

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

Business Administration Minor

Dusiness Auministration Minor
The minor in business administration for the non-business
major involves 18 semester hours including:
ACCT-2110 Principles of Accounting I
ECON-2330 Microeconomics
MGMT-3500 Principles of Organization and Management
MRKT-3600 Principles of Marketing3
Business Administration electives selected from the
following 2000-3000-level Business Administration
Core courses6
ACCT-2120 Principles of Accounting II
BUS-2110 Statistics I2
BUS-2120 Statistics II 2
BUS-2180 Business Law3
BUS-3150 Operations Analysis 2
BUS-3910 International Business3
ECON-2340 Macroeconomics 3

Christian Ministries Management Minor

The minor in Christian ministries management for the	
nonbusiness major involves 19 semester hours including:	
ACCT-2110 Principles of Accounting I	3
FIN-2730 Church Business Administration	3
MGMT-3500 Principles of Organization and Management	3
MGMT-3530 Human Resources Management	3
MIS-1500 Information Technology for Business	2
MIS-1510 Software Tools for Business	2
MRKT-3680 Nonprofit Marketing	3

Economics Minor

The minor in economics involves 18 semester hours including:
ECON-2330 Microeconomics
ECON-2340 Macroeconomics
ECON-3310 International Money and Capital Markets
ECON-3350 Comparative Economic Systems
3000- or 4000-Level Electives in Economics





International Business Minor

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

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

International Business for the Nonbusiness Major Minor The minor in international business for the nonbusiness major involves 21 semester hours including:

3
6
3
3
3
3
6
3
3
3
3
6

Informations Systems Minor

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

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

Department of

Communication Arts

School of Humanities

Mission Statement

The Cedarville University Department of Communication Arts is a diverse community of communication professionals committed to educating students to change the world as they biblically engage their culture with the heart and mind of Christ. The department recognizes the importance of balancing the professional side of our discipline with a rigorous academic grounding. Contemporary issues and theories are evaluated and discussed in the perspective of Scripture. To achieve these goals, the department has set the following objectives. We seek:

- 1. To achieve excellence in communication skills and critical thinking.
- 2. To foster a desire for knowledge and an enthusiasm for creative expression.
- 3. To aid students in formulating problem-solving techniques in applied contexts.
- 4. To encourage the evaluation of performance-based communication as a reflection of culture.
- 5. To develop innovative leaders for positions in media, politics, business, and entertainment.

Personal Requirements

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

Department Requirements

All students in the department take Introduction to Communication Arts as the entry course in the major. Within each specific program of study, students complete classes in the history, theory, research, and ethics of their particular field of communication. Majors are required to complete a senior capstone project in research, production, internship, or performance to graduate. The nature of the project is determined by the emphasis area of the student.

Technical Resources

The department provides state of the art audio and video equipment with which students learn the skills of the electronic media.

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

The computer network provides tools and resources for public speaking, debate, and forensics.

Journalism students learn news writing and design in a newly developed media lab. This facility also features print, broadcasting, and online media resources for classroom instruction and research.

Programs of Study

The department of communication arts offers the following programs of study:

Majors

- Comprehensive Communication
- Electronic Media
- Intercultural Communication
- Journalism
- Media Communication
- Organizational Communication
- Political Communication
- Theatre

Minors

- Comprehensive Communication
- Electronic Media
- Organizational Communication
- Theatre

Co-Curricular Opportunities Alpha Psi Omega

Alpha Psi Omega is the Cedarville University chapter of the national honorary theatre organization. The organization stimulates interest in theatre activities at the University and provides a forum for social interaction among students. **Debate**

Cedarville University has had a successful debate program for two decades, earning the national championship title in 1999, 2000, and 2003 within the National Education Debate Association. In 2003, Cedarville joined the National Parliamentary Debate Association (NPDA), the largest debate organization in the U.S., and is currently ranked #8 in the nation (the top 2%) for the 2007–08 season, surpassing other nationally recognized teams such as UC-Berkeley and Notre Dame. Cedarville debaters are also the 2008 National Champions among Christian colleges and universities. Contact the director of debate for audition and scholarship information.

Forensics

Forensics is intercollegiate speech competition, including events in public speaking, oral interpretation, limited preparation, and Lincoln-Douglas debate. For the past 20 years, Cedarville has been ranked #10 in their division nationally. In recent years, Cedarville has been state champions in Ohio and national champions among Christian colleges and universities. Contact professor Derrick Green, assistant professor of communication arts, for audition information. Scholarships are available. Lamda Pi Eta

Lamda Pi Eta is the National Communication Honor Society for undergraduate students. It recognizes, fosters, and rewards outstanding scholastic achievement. In addition, Lamda Pi Eta promotes and encourages professional development among majors, while providing an opportunity to discuss and exchange ideas in the field of communication.

Miriam Maddox Forum

The Miriam Maddox Forum is an honorary alumni society of the department of communication arts for alumni and graduating seniors with a continuing interest in communication within the public sphere.

Society for Human Resource Management

Communication arts majors interested in organizational communications and human resources are encouraged to join the Cedarville University chapter of the Society for Human Resource Management (SHRM). SHRM members investigate the field of human resources by developing their own human resource management programming and activities and by attending other professional human resource meetings and conferences. **Theatre**

Each semester the department communication arts presents a major theatrical production. In recent years the department has produced Arsenic and Old Lace, A Doll's House, Romeo and Juliet, Mousetrap, You're a Good Man, Charlie Brown, Alice in Wonderland, The Imaginary Invalid, and Crossing Delancy. Performances are often sold out and always greatly appreciated by the University family as well as many community guests. **Resound Radio**

Students of all majors interested in developing their skills in electronic media are encouraged to join the staff of Resound, the University's award winning on-line professional student radio station. Students are involved in planning, programming, and managing the station. Students enjoy a fun working environment and a large, responsive audience. Popular programs, music, and personalities have made this station an important part of the campus life at Cedarville. The station can be found at **www.resoundradio.com**.

Career Opportunities

Careers in communications are varied and vast. Graduates in the communications studies major excel in careers in public relations, personnel management, communication consulting, media communication, political communication, cross-cultural communication, and corporate education training.

Students who major in electronic media receive excellent training for careers in audio and video production, station management, digital media production, journalism, interactive media design, and management.

The theatre program prepares students for a variety of careers in different aspects of drama and professional theatre. The program allows students to prepare for jobs in acting and directing or for opportunities in theatre design, technology, and management. Graduates not only find employment options for these positions in the arts but also in social, educational, and ministry contexts.

These majors also equip students to pursue graduate studies in communication and other fields such as law, theology, and business.

Other career opportunities include:

- Actor
- Advertising executive
- Anchorperson
- Arts administrator
- Business manager
- Communication consultant
- · Communication statistician
- Community relations
 director
- Customer service representative
- Public information officer
- Development officer
- Film director
- Fund raiser
- · Health services manager
- · Human rights officer
- Journalist
- Labor relations consultant
- Faculty

Charles W. Elliott, *Chair:* Professor of Communication Arts. *Education:* B.A., Cedarville University, 1977; M.A., Temple University, 1984; Ph.D., Temple University, 1994. At Cedarville since 2003.

J. Wesley Baker, Distinguished Professor of Communication Arts. *Education:* B.A., Bob Jones University, 1972; M.A., University of South Carolina, 1980; Ph.D., The Ohio State University, 1991. At Cedarville since 1977.

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

Robert L. Clements, Assistant Professor of Communication Arts. *Education:* B.A., Bob Jones University, 1970; M.Ed., Wright State University, 1983; graduate study - The Ohio State University, 2002. At Cedarville since 2003.

Jeffrey Gilbert, Assistant Professor of Journalism. *Education:* B.A., Cedarville University, 1987. At Cedarville since 2009.

Legal communication
 consultant

- Legislative correspondent
- Mediation specialist
- News director
- Nonprofit organization director
- Political campaign director
- Political analyst
- Politician
- Publications editor
- Publicist
- Radio talk-show host
- Recording company
- executive
- Sales/Marketing Rep.
- Seminar leader
- Sports announcer
- Theatre director

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.

Deborah B. Haffey, Professor of Communication Arts. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1969; Ph.D., The Ohio State University, 2002. At Cedarville since 1986.

Clifford L. Johnson, Professor of Communication Arts. *Education:* B.Ed., Western Washington University, 1949; M.Ed., Western Washington University, 1953; D.Ed., University of Washington, 1962. At Cedarville since 1962.

James L. Kragel, Associate Professor of Communication Arts. *Education:* B.S., Mankato State University, 1977; M.A., Wheaton College, 1984. At Cedarville since 1994.

James O. Leightenheimer, Associate Professor of Communication Arts. *Education:* B.A., Cedarville University, 1980; M.A., Ohio University, 1989. At Cedarville since 1982.

J. Michael López, Professor of Communication Arts. *Education:* B.A., Bob Jones University, 1972; M.A., Bob Jones University, 1975; Ph.D., The Ohio State University, 1985. At Cedarville since 1984.

Mischelle L. McIntosh, Assistant Professor of Communication Arts. Media Research. *Education:* B.A., Cedarville University, 1977; M.A., Pensacola Christian College, 1981; M.A., University of West Florida, 1992. At Cedarville since 1999.

Diane A. Merchant, Professor of Communication Arts. *Education:* B.A., Cedarville University, 1978; post-graduate work in theatre, Kent State University, 1983-84; M.A., The Ohio State University, 1989. Ph.D., The Ohio State University, 1996. At Cedarville since 1989.

Matthew M. Moore, Associate Professor of Communication Arts. Director of Forensics. *Education:* B.A., Cedarville University, 1992; M.A., Miami University, 1997. At Cedarville since 1998.

Kurt D. Moreland, Associate Professor of Communication Arts. *Education:* B.A., Cedarville University, 1976; M.A., West Virginia University, 1978; all work completed for Ph.D. except dissertation, Purdue University. At Cedarville since 1981.

James R. Phipps, Senior Professor of Communication Arts. *Education:* B.A., Cedarville University, 1968; M.A., The Ohio State University, 1970; Ph.D., The Ohio State University, 1975. At Cedarville since 1968.

Margaret S. Wheeler, Associate Professor of Communication Arts. *Education:* B.A., Cedarville University, 1964; M.Ed., Central State University, 1998. At Cedarville since 1995.

Technical Support Staff

Donald N.C. Jones, Designer and Technical Director. *Education:* B.A., Bob Jones University, 1973; graduate studies: Tennessee Temple University, 1974-76; Oxford University (England), 1977; University of the South, 1983; Rhode Island School of Design, 2002. At Cedarville since 1984.

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

David G. Bastress, Electronic Media Technician. *Education:* Practical Bible Training School, 1970; John Brown University, 1980. At Cedarville since 2002. School of Humanities

Comprehensive Communication

The **comprehensive communication major** prepares students for careers in public relations, personnel management, consultation programs, media communications, and corporate executive training. Because excellent communication skills are important in many professions, this major has also been chosen by those pursuing careers in sales or politics. It also serves as excellent preparation for those planning additional graduate professional training such as law, theology, and business.

COM-3100 Advanced Public Speaking	3
COM-3240 Interpersonal Communication	
COM-4110 History of Public Address	3
COM-4120 Contemporary Rhetoric	3
COM-4810 Research Pre-Seminar	2
COM-4820 Senior Research Project	3
COM-4830 Research Post Seminar	0
COM-XXX Communication Arts Electives	6
**Electives	12

*Capstone Course

**Electives are chosen by the student to meet his or her specific life goals and must be approved by the department chair and the student's advisor. Additionally, the student must justify the exclusion of communication arts courses that appear to meet the life goal plan. No 1000-level courses may apply

Comprehensive Communication Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Comprehensive Communciation Major Requirements	48
Electives	31
Total (minimum, not including proficiency)	128



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

Suggested Four-Year Curriculum for a Major in Comprehensive Communication

First year:

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Second year.

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
COM-2000 Persuasive Theory	3
COM-2050 Communication Theory	3
COM-2220 Research in Communication	3
Physical Science Elective	3.5
Quantitative Elective	3
Social Science/Global Awareness Elective	3
General Education Electives	8
Total	32.5

Third year:

initia jouri	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
COM-3100 Advanced Public Speaking	
COM-3240 Interpersonal Communication	2
COM-4810 Research Pre-Seminar	2
Communication Arts Electives	6
Core Requirement Electives	12
Electives	
Total	31

Fourth year:

rounnycu.	
COM-4110 History of Public Address	3
COM-4820 Senior Research Project	3
COM-4120 Contemporary Rhetoric	3
COM-4830 Research Post-Seminar	0
Electives	21
Total	30

Intercultural Communication

The **intercultural communication major** was developed with the awareness that there is a need to educate communication professionals to be competent in diverse cultural contexts. It has been structured to provide students with the opportunity to obtain a strong foundation in intercultural communication as an academic field; understand the research methods needed to answer questions and solve problems related to this area of study; apply their program of study in a supervised cultural immersion experience; and evaluate multicultural issues and integrate their understanding of the field and their responsibility within it in the context of a Christian worldview.

Course requirements involve 48 semester hours including:
Intercultural Communication requirements
COM-1000 Introduction to Communication Arts
COM-2000 Persuasive Theory3
COM-2050 Communication Theory
COM-2140 Intercultural Communication
COM-2200 Communication in Applied Contexts
COM-2220 Research in Communication
COM-3100 Advanced Public Speaking
COM-3240 Interpersonal Communication2
COM-3710 Communication and Cultural Literacy
COM-4810 Research Pre-Seminar
COM-4820 Senior Research Project
COM-4830 Research Post Seminar0
PYCH-3740 Qualitative Research
*Immersion Requirement3
COM-3790 Cultural Immersion Clinic
(or one semester study abroad
During the freshman or sophomore year, select at
least one course from the following
PYCH-1800 Cross Cultural Psychology3
SOC-1300 Introduction to Sociology
During the junior or senior year, select remaining
elective courses from the following9
ART-3310 Art History I
ART-3320 Art History II3
BEPT-3470 Cross-Cultural Ministry
COM-2300 Voices of Diversity
COM-3150 Gender, Politics, and Communication
HLMU-2100 Jazz History: Music of the Multi-Culture
HLMU-3400 Global Music2
THTR-2510 Theatre and Social Change
*All immersion requirements must be completed in a cultural context different from the

*All immersion requirements must be completed in a cultural context different from the student's culture of origin and are subject to approval by the department chair and the student's advisor. Other electives may be included to meet specific academic goals of the student, and must be approved by the department chair and the student's advisor.

Intercultural Communication Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	52-63
Intercultural Communication Major Requirements	48
Electives	
Total (minimum, not including proficiency)	128

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

Suggested Four-Year Curriculum for a Major in Intercultural Communication

First year:

First year:
BEGE-1710 Christian Life and Thought3
BEGE-1720 Spiritual Formation
COM-1000 Introduction to Communication Arts
COM-1100 Fundamentals of Speech
COM-2200 Communication in Applied Contexts2
ENG-1400 Composition
GSS-1100 Politics and American Culture
HUM-1400 Introduction to the Humanities
PEF-1990 Physical Activity and the Christian Life1
Biological Science Elective
History Elective
Literature Elective
Physical Education Activity Elective
Total
Second year:
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
COM-2000 Persuasive Theory
COM-2050 Communication Theory
COM-2140 Intercultural Communication
COM-2220 Research in Communication
Freshman/Sophomore Requirements
Physical Science Elective
Quantitative Elective
Social Science/Global Awareness Elective
Total
10tal
Third year:
BEGE-3750 Christian Worldview Development2
BEGE-3760 Christian Worldview Integration2
COM-3100 Advanced Public Speaking
COM-3240 Interpersonal Communication
COM-3710 Communication and Cultural Literacy
COM-4810 Research Pre-Seminar
PYCH-3740 Qualitative Research
Immersion Requirement
Junior/Senior Requirements
Electives
Total
10tal
Fourth year:
COM-4820 Senior Research Project
COM-4830 Research Post-Seminar0
Junior/Senior Requirements
Humanities Elective
Electives
Total

School of Humanities

Electronic Media

The **electronic media major** prepares students for careers in a wide range of media – radio, television, non-broadcast audio/ video production, and online and computer-based media. Because of the paraprofessional nature of this program and the balance of practical and theoretical aspects of media work, Cedarville graduates have excelled in careers across all of these media.

Through specifically designed courses, students have the opportunity to work in environments in which radio stations are streaming alternate music formats on the web, television is digital and interactive, and the Internet's broadband capacity provides video on demand. Students receive a broad perspective to prepare them to work in a rapidly changing media environment and will also select a concentration for specialization.

Course requirements involve 53 semester hours – 32 semester hours of core courses that provide the student with an overview of these media and develop skills in common with all of them and a 21-hour concentration. The concentrations provide specialized courses in audio production (radio and non-broadcast audio), video production (television and non-broadcast video), management/sales (covering the business side of the field), and interactive media (online and computer-based media).

Internships are strongly recommended but are dependent upon availability and placement.

Course requirements involve 53 semester hours including:

Core Requirements	
COM-1000 Introduction to Communication Arts	3
COM-2320 Theories of Mass Media	
EMTC-1110 Introduction to Electronic Media	3
EMTC-1120 Audio Production	-
EMTC-2110 Video Technical Training	
EMTC-2130 Writing for Electronic Media	
EMTC-3111 Survey Research for Electronic Media	
(or EMTC-3112 Content Research for Electronic Media .	
EMTC-3150 Electronic Media Ethics	
EMTC-3151 Christian Approaches to Electronic Media	
EMTC-4110 Electronic Media Law and Regulation	
EMTC-4810 Senior Seminar	
Select one of the following, with approval of faculty	
*EMTC-4920 Senior Project	3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 21
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3 3 3
*EMTC-4920 Senior Project EMTC-4930 Electronic Media Internship	3 -12 21 3 3 3 3 3 3 3

Interactive media concentration	
ART-1100 Introduction to Art	3
(or COM-3220 Visual Communication	
EMTC-2061 Proficiency in HTML	
EMTC-2062 Proficiency in Photoshop)
EMTC-2063 Proficiency in IllustratorC	
EMTC-2610 Preproduction Planning	
EMTC-3061 Proficiency in Flash	
EMTC-3062 Proficiency in Director	
EMTC-3065 Proficiency in Maya	
EMTC-3410 Electronic Media Sales	
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 following3	\$
*EMTC-3761 Interactive Media Practicum 1	
*EMTC-3765 Animation Practicum 1	
Management/Sales concentration	
COM-3230 Organizational Communication	3
COM-4060 Organizational Leadership	
EMTC-3410 Electronic Media Sales	
EMTC-3420 Electronic Media Management	3
EMTC-3741 Sales and Management Practicum	
(1 hour each; 3 hours required)	
MGMT-3500 Principles of Organization and Management.3	3
MRKT-3600 Principles of Marketing	
Video concentration	
COM-3220 Visual Communication	
EMTC-2610 Preproduction Planning3 EMTC-3310 Advanced Video Production	
**Practica – three hours selected from the following3	
*EMTC-3731 Video Production Practicum)
*EMTC-3732 Directing Practicum	
*EMTC-3733 Sports Production Practicum	
Electives selected from the following	
EMTC-2310 Introduction to Photography	
EMTC-3330 Screenwriting	
EMTC-3350 Documentary Film	
EMTC-3360 Documentary Film-style Production I 3	
EMTC-3370 Documentary Film-style Production II 3	
EMTC-3410 Electronic Media Sales	
EMTC-4310 Film-Style Production	
*Capstone Course	

**Students may add up to 2 additional practica hours.

+Repeatable

Electronic Media Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Electronic Media Major Requirements	53
Electives	
Total (minimum, not including proficiency).	

Electronic Media Advisory Board

The EMTC Advisory Board provides input on the development of the EMTC majors and an assessment of the program's courses and facilities to ensure that students are being prepared for a career in the field. Current Board members* include:

Ben Barrett, Association of Baptists For World Evangelism

Jay Benson, WHIZ Media Group Ruth Bliss, Mission Network News R. Todd Carter, Ginghamsburg Church Dan Craig, WRFD, Salem Media Bill DeWees, WONU Bob Lepine, Family Life Today Dusty Rhodes, WAY-FM Media Group Dave Samuel, Focus on the Family Josh Snyder, Media and Entertainment Entrepreneur Shelly Stock, Freelance Television Producer Paul Yuen, Gospelcom International

*Organizational affiliation cited for identification only





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

Suggested Four-Year Curriculum for a Major in Electronic Media

First year: BEGE-1710 Christian Life and Thought BEGE-1720 Spiritual Formation COM-1000 Introduction to Communication Arts COM-1100 Fundamentals of Speech EMTC-1110 Introduction to Electronic Media EMTC-1120 Audio Production ENG-1400 Composition GSS-1100 Politics and American Culture HUM-1400 Introduction to the Humanities PEF-1990 Physical Activity and the Christian Life Biological Science Elective	3 3
History Elective	
Total	34.5
Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature COM-2320 Theories of Mass Media EMTC-2110 Video Technical Training EMTC-2130 Writing for Electronic Media. EMTC-XXXX Concentration Requirements and Electives. Physical Education Activity Elective. Physical Science Elective Quantitative Elective.	3
Third year: RECE 2750 Christian Worldview Development	-
BEGE-3750 Christian Worldview Development BEGE-3760 Christian Worldview Integration	2
DEGE-5700 Chinsuan wohuview Integration	

, a jour	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
EMTC-3111 Survey Research for Electronic Media	
(or EMTC-3112 Content Research for Electronic Media	
EMTC-3150 Electronic Media Ethics	
EMTC-3151 Christian Approaches to Electronic Media	
EMTC-XXXX Practica	
EMTC-XXXX Concentration Requirements and Electives	
Literature Elective	
Social Science/Global Awareness Elective	
Electives	
Готаl	
Fourth year:	
EMTC-4110 Electronic Media Law and Regulation	3
ENTC 4810 Senior Seminar	

	·
EMTC-4810 Senior Seminar1	I.
EMTC-4920 Senior Project	3
(or EMTC-4930 Electronic Media Internship3-12))
Concentration Requirement or Elective	2
EMTC-XXXX Practicum1	L
Iumanities Elective	3
Electives	5
Fotal 29	

School of Humanities

Journalism

The journalism major prepares students for careers in a wide range of media - print, broadcasting, and public relations.

The uniqueness of the major is based in Cedarville University's approach to integrating faith and learning. In this program of study, students will be educated to develop a Christ-centered approach to the collection and dissemination of information.

The scope of the major provides both breadth and depth. The convergent aspect of the program provides academic and professional development across media. There is depth in the progression through the core and concentration subjects.

Entrance into the journalism program is contingent on passing the GSP (Grammar/Spelling/Punctuation) Test.

Retention requirements at the end of fall semester of sophomore year: Journalism majors must have a minimum GPA of 2.5 and a GPA of 2.30 to continue.

Course requirements involve 48-49 semester hours: 30 semester hours of core courses and 18-19 hours of concentration.



Course requirements involve 48–49 semester hours including:	
Core Requirements	30
COM-1000 Introduction to Communication Arts	
COM-2050 Communication Theory	
COM-2510 Media History	. 3
COM-3220 Visual Communication	. 3
JOUR-1000 Intro to Media Writing	. 3
JOUR-2000 Intro to Reporting	. 3
JOUR-3100 Media Law	
JOUR-3150 Media Ethics	. 2
*JOUR-4950 Internship	. 1
Journalism core electives	. 6
**COM-2220 Research in Communication3	
COM-2820 Political Communication3	
COM-3840 Media Analysis3	
COM-4210 Public Opinion and Polling3	
JOUR-3250 Digital Studies and Media	
JOUR-4810 Special Topics in Journalism	
Concentration selected from the following1	
Broadcasting concentration	
JOUR-3310 Adv Newswriting/Reporting for Broadcasting .3	
JOUR-3320 Adv Newswriting and Reporting for Print	
JOUR-3350 Television News Production	
JOUR-3900 Journalism Practicum	
JOUR-4350 Advanced Television News Production	
Electives selected from the following	
EMTC-1120 Audio Production	
EMTC-3350 Documentary Film	
EMTC-3360 Documentary Film-style Production I 3	
EMTC-3370 Documentary Film-style Production II 3	
EMTC-3610 Visual Design for Electronic Media	
Print concentration	10
JOUR-3310 Adv Newswriting/Reporting for Broadcasting .3	
JOUR-3320 Adv Newswriting and Reporting for Print	
JOUR-3420 Editing and Design	
JOUR-3420 Editing and Design	
JOUR-4420 Feature-Writing	
Electives selected from the following	
JOUR-3600 Computer Assisted Reporting	
JOUR-4600 Magazine Writing	
JOUR-4610 Photojournalism	
JOUR-4620 Investigative Reporting	
Public Relations concentration	10
JOUR-2500 Introduction to Public Relations	
JOUR-3500 Public Relations Principles and Writing	
JOUR-3550 Advanced Public Relations Writing	
JOUR-4500 Public Relations Campaigns	
JOUR-4550 Practicum in Public Relations	
Electives selected from the following	1
COM-3230 Organizational Communication	
COM-3810 Political Speechwriting	
COM-4060 Organizational Leadership	
JOUR-4820 Special Topics in Public Relations 3	
MRKT-3600 Principles of Marketing	
*Capstone Course	
**Required for public relations concentration	

Journalism Major Curriculum Summary

0-5
52-60
48-49
15-21
2-13
128

Communication Arts School of Humanities

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

Suggested Four-Year Curriculum for a Major in Journalism

First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1000 Introduction to Communication Arts	
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3
JOUR-1000 Intro to Media Writing	
PEF-1990 Physical Activity and the Christian Life	1
Biological Science Elective	3.5
History Elective	
Physical Education Activity Elective	
Total	
Second year:	

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
COM-2050 Communication Theory	3
COM-2510 Media History	
JOUR-2000 Intro to Reporting	
JOUR-XXXX Journalism Core Elective	
Literature Elective	3
Physical Science Elective	3.5
Quantitative Elective	3
Electives	
Total	30.5

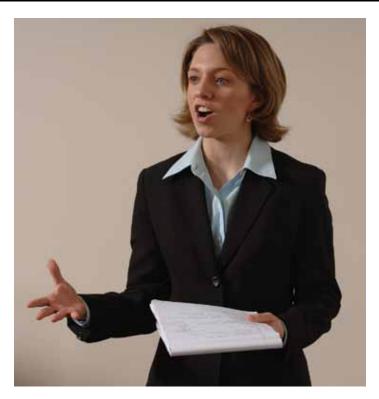
Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
COM-3220 Visual Communication	3
JOUR-3100 Media law	3
JOUR-3150 Media Ethics	2
JOUR-XXXX Concentration Requirements and Electives	8
Humanities Elective	3
Social Science/Global Awareness Elective	3
Electives	6
Total	32
Found to see	

Fourth year:

JOUR-4950 Internship1
JOUR-XXXX Concentration Requirements and Electives
JOUR-XXXX Journalism Core Electives
Electives
Total





School of Humanities

Media Communication

The **media communication major** offers a new approach to the study of media that prepares students to lead media innovations, solve new problems, and address the unique challenges of convergent mediated communication. Students are taught to cultivate a unique approach to mediated communication that develops skills in creative problem-solving techniques, innovative adaptation of media forms and formats, and positive leadership.

Course requirements involve 48 semester hours, including 42 semester hours in the core requirements and 6 semester hours in electives consistent with the career interests of the student and subject to department approval.

Course requirements involve 48 semester hours including: Media Communication requirements42
COM-1000 Introduction to Communication Arts
COM-2000 Persuasive Theory3
COM-2050 Communication Theory
COM-2200 Communication in Applied Contexts
COM-2220 Research in Communication
COM-2510 Media History3
COM-3100 Advanced Public Speaking
COM-3120 Argumentation and Debate
(or COM-4060 Organizational Leadership
COM-3220 Visual Communication3
COM-3240 Interpersonal Communication2
COM-3840 Media Analysis3
COM-4810 Research Pre-Seminar2
COM-4820 Senior Research Project 3
COM-4830 Research Post Seminar0
EMTC-4155 Image and Word in a Visual Culture
EMTC-4610 Media Convergence 3
*Electives6
*Electives consistent with media studies may be selected from the Communication
Arts department or other departments in order to specify the major according to
career interests and must be approved by the department chair and the student's

Media Communication Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Media Communication Major Requirements	
Electives	
Total (minimum, not including proficiency)	128



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

Suggested Four-Year Curriculum for a Major in Media Communication

First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1000 Introduction to Communication Arts	3
COM-1100 Fundamentals of Speech	3
COM-2200 Communication in Applied Contexts	2
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Biological Science Elective	
History Elective	
Literature Elective	3
Physical Education Activity Elective	1
Total	

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
COM-2000 Persuasive Theory	3
COM-2050 Communication Theory	
COM-2220 Research in Communication	
COM-2510 Media History	3
COM-3220 Visual Communication	
Physical Science Elective	3.5
Quantitative Elective	
Social Science/Global Awareness Elective	
Total	

Third year:

BEGÉ-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	
COM-3100 Advanced Public Speaking	
COM-3120 Argumentation and Debate	
(or COM-4060 Organizational Leadership	
COM-3240 Interpersonal Communication	ź
COM-3840 Media Analysis	3
COM-4810 Research Pre-Seminar	2
EMTC-4155 Image and Word in a Visual Culture	3
Electives	9
Total	29
Fourth year:	
COM-4820 Senior Research Project	
COM-4830 Research Post-Seminar	0
EMTC-4610 Media Convergence	3
Communication Arts Major Concentration Courses	6
Humanities elective	3
Electives	

advisor.

Organizational Communication

Students in the **organizational communication major** study processes of human interaction within organizational settings. The curriculum provides opportunities for students to explore decisionmaking and problem-solving in corporate contexts, training and development processes, interviewing and discussion methods, conflict resolution, and negotiation techniques. This program prepares students for careers in corporate communication, marketing/sales, public relations, and human resources by providing a sound foundation in organization and the skills needed to communicate effectively in a variety of communication contexts.

Course requirements involve 48 semester hours including:Organizational Communication requirements42COM-1000 Introduction to Communication Arts3COM-2000 Persuasive Theory3COM-2050 Communication Theory3COM-2200 Communication in Applied Contexts2COM-2200 Research in Communication3COM-3200 Organizational Communication3COM-3200 Organizational Communication3COM-3200 Organizational Communication3COM-3230 Organizational Communication2COM-3250 Interviewing3COM-3250 Interviewing3COM-3300 Organizational Training.3COM-4060 Organizational Leadership3COM-4810 Research Pre-Seminar0MGMT-3500 Principles of Organization and Management3Bectives selected from the following6COM-2230 Group Discussion2COM-2320 Theories of Mass Media3COM-3120 Argumentation and Debate3COM-3260 Organizational Negotiation3COM-4610 Communication Ethics2-3COM-4640 Special Topics2-3COM-4640 Special Topics2-3COM-4720 Independent Study: Organizational3-12EING-3010 Style and Mechanics for Writers3-12
COM-4900 Internship in Communication

Organizational Communication Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	52-63
Organizational Communication Major Requirements	
Electives	
Total (minimum, not including proficiency)	128

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

Suggested Four-Year Curriculum for a Major in Organizational Communication

First year: BEGE-1710 Christian Life and Thought
Total
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-2020 Research in Communication 3 COM-3100 Advanced Public Speaking 3 Physical Science Elective 3.5 Quantitative Elective 3 Social Science/Global Awareness Elective 3 Sectives 3
Total
Third year: BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 COM-3230 Organizational Communication 3 COM-3250 Interviewing 3 COM-3240 Interpersonal Communication 2 COM-3330 Organizational Training 3 COM-4810 Research Pre-Seminar 2 MGMT-3500 Principles of Organization and Management 3 MGMT-3530 Human Resources Management 3 Electives 9 Total 32
Fourth year: COM-4060 Organizational Leadership 3 COM-4110 History of Public Address 3 (or another Humanities elective 3) COM-4820 Senior Research Project 3 (or COM-4900 Internship in Communication 3) COM-4830 Research Post-Seminar 0 Communication Arts Major Concentration Courses 6 Electives 16 Total 31

School of Humanities

Political Communication

The **political communication major** provides students with a solid foundation to meet the diverse requirements of communication professionals in local, state, and national political contexts. This area of study begins with the fundamentals of political communication, then moves to develop proficiency in speech writing and constituent relations. The coursework is designed to stimulate problem-solving, leadership development, and critical thinking in political contexts. An important part of the curriculum is understanding the nature and implications of diversity in American society to enable students to communicate effectively and responsibly.

COM-2000 Persuasive Theory3COM-2050 Communication Theory3COM-2050 Communication In Applied Contexts2COM-2200 Research in Communication3COM-2820 Political Communication3COM-3100 Advanced Public Speaking3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication2COM-3810 Political Speechwriting3COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following3COM-2140 Intercultural Communication3COM-4800 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3POLS-3640 Campaigns and Elections3	Course requirements involve 48 semester hours including: Political Communication requirements COM-1000 Introduction to Communication Arts	
COM-2050 Communication Theory3COM-2200 Communication in Applied Contexts2COM-2200 Research in Communication3COM-2820 Political Communication3COM-3100 Advanced Public Speaking3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-4820 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-2200 Communication in Applied Contexts2COM-2220 Research in Communication3COM-2820 Political Communication3COM-3100 Advanced Public Speaking3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-2220 Research in Communication3COM-2820 Political Communication3COM-3100 Advanced Public Speaking3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3	COM-2200 Communication in Applied Contexts	2
COM-2820 Political Communication3COM-3100 Advanced Public Speaking3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-4060 Organizational Leadership3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3	COM-2220 Besearch in Communication	3
COM-3100 Advanced Public Speaking.3COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling.3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship.3)COM-4830 Research Post Seminar0Electives selected from the following.9COM-2140 Intercultural Communication3COM-3220 Visual Communication3COM-4060 Organizational Leadership.3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-3120 Argumentation and Debate3COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-3150 Gender, Politics, and Communication3COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-3240 Interpersonal Communication2COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-3810 Political Speechwriting3COM-4210 Public Opinion and Polling3COM-4210 Public Opinion and Polling3COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship3)COM-4830 Research Post Seminar0Electives selected from the following9COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-4210 Public Opinion and Polling		
COM-4810 Research Pre-Seminar2COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship		
COM-4820 Senior Research Project3(or COM-4825 Senior Capstone Internship		
(or COM-4825 Senior Capstone Internship		
COM-4830 Research Post Seminar0Electives selected from the following.9COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
Electives selected from the following.9COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3	COM-4830 Research Post Seminar	0
COM-2140 Intercultural Communication3COM-2300 Voices of Diversity3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-2300 Voices of Diversity3COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-3220 Visual Communication3COM-4060 Organizational Leadership3COM-4120 Contemporary Rhetoric3COM-4610 Communication Ethics2POLS-2000 Intro to Political Science3POLS-2100 American Political Institutions3		
COM-4060 Organizational Leadership		
COM-4120 Contemporary Rhetoric		
COM-4610 Communication Ethics		
POLS-2000 Intro to Political Science		
POLS-2100 American Political Institutions		

Political Communication Major Curriculum Summary

Total (minimum, not including proficiency)	;
Electives	
Political Communication Major Requirements48)
General Education Requirements	
Proficiency Requirements0-5	

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

Suggested Four-Year Curriculum for a Major in Political Communication

First year:

Thoe your.	
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	3
COM-1000 Introduction to Communication Arts	
COM-1100 Fundamentals of Speech	3
COM-2200 Communication in Applied Contexts	2
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Biological Science Elective	
History Elective	
Literature Elective	
Physical Education Activity Elective	1
Total	

Second year:

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
COM-2000 Persuasive Theory	3
COM-2050 Communication Theory	3
COM-2220 Research in Communication	3
COM-2820 Political Communication	3
COM-3120 Argumentation and Debate	3
COM-3150 Gender, Politics, and Communication	3
Physical Science Elective	3.5
Quantitative Elective	3
Social Science/Global Awareness Elective	3
Total	33.5

Third year:

milli 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-3810 Political Speechwriting	3
COM-4210 Public Opinion and Polling	3
COM-4810 Research Pre-Seminar	
Electives	
Total	30
Fourth year:	
COM-2300 Voices of Diversity	3
(or another Humanities elective	3)
COM-4820 Senior Research Project	
(or COM-4825 Senior Capston Internship	3)
COM-4830 Research Post-Seminar	
Political Communication Electives	
Electives	
Total	

Theatre

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

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

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

Course requirements involve 56 semester hours including:

Theatre core requirements	
· · · · · · · · · · · · · · · · · · ·	36
COM-1000 Introduction to Communication Arts	
THTR-1410 Introduction to Theatre	
THTR-1420 Introduction to Technical Theatre	
THTR-1440 Stagecraft I1	
THTR-1450 Stagecraft II1	
THTR-1480 Play Production	
THTR-2200 Introduction to Design	
THTR-2350 Directing I 3	
THTR-2430 Acting I3	
THTR-2470 Makeup Design2	
THTR-3420 Theatre History I2	
THTR-3430 Theatre History II2	
THTR-3470 Dramaturgy 3	
THTR-4400 Professional Preparation Seminar2	
THTR-4630 The Christian in Theatre2	
Concentration selected from the following	20
THTR-3520 Scenic Painting3	
*THTR-4840 Senior Theatre Project3	
Performance Concentration	
THTR-1230 Voice and Diction3	
THTR-1430 Stage Movement3	
THTR-2410 Advanced Performance Techniques	
THTR-3460 Acting II	
THTR-3510 Directing II	
THTR-3530 Techniques of American Musical Theatre2	
*THTR-4840 Senior Theatre Project	
Design Concentration20THTR-2440 Stagecraft III1THTR-2450 Scenic Design3THTR-2460 Costume Design3THTR-3440 Stage Costume History3THTR-3450 Stagecraft IV1THTR-3490 Stage Lighting Design3	20

*Capstone Course

Theatre Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Theatre Major Requirements	
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Theatre

-
First year:BEGE-1710 Christian Life and Thought3BEGE-1720 Spiritual Formation3COM-1000 Intro to Communication Arts3COM-1100 Fundamentals of Speech3ENG-1400 Composition3HUM-1400 Introduction to the Humanities3THTR-1410 Introduction to Theatre3THTR-1420 Introduction to Technical Theatre3THTR-1440 Stagecraft I1THTR-1450 Stagecraft II1THTR-1480 Play Production3PEF-1990 Physical Activity and the Christian Life1Biology Elective3.5
Total 33.5
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 GSS-1100 Politics and American Culture 3 LIT-2340 Western Literature 3 THTR-2200 Intro to Design 3 THTR-2350 Directing I 3 THTR-2430 Acting I 3 THTR-2470 Makeup Design 2 Physical Education Activity Elective 1 Theatre Concentration Courses 6 Total 30
Third year: BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 THTR-3420 Theatre History I 2 THTR-3430 Theatre History II 2 THTR-3470 Dramaturgy 3 History Elective 3 Physical Science Elective 3 Electives 3 Theatre Concentration Courses 9 Total 32.5
Fourth year: THTR-4400 Professional Preparation Seminar



Communication Arts School of Humanities

Minors

Comprehensive Communication Arts Minor	
Course requirements for the minor in comprehensive	
communication arts involve 16 semester hours selected from	the
following courses:	
COM-1000 Introduction to Communication Arts	3
COM-2000 Persuasive Theory	3
COM-2050 Communication Theory	3
COM-2200 Communication in Applied Contexts	2
COM-3100 Advanced Public Speaking	3
COM-3240 Interpersonal Communication	2
COM-4110 History of Public Address	3
COM-4120 Contemporary Rhetoric	2

Electronic Media Minor

Course requirements for the minor in electronic media involve 1 semester hours selected from the following courses:	16
COM-1000 Introduction to Communication Arts	3
EMTC-1110 Introduction to Electronic Media	3
EMTC-1120 Audio Production	3
EMTC-2110 Video Technical Training	3
EMTC-2130 Writing for Electronic Media	3
Research (Select one of the following courses)	3
EMTC-3111 Survey Research for Electronic Media	
EMTC-3112 Content Research for Electronic Media	
EMTC-3150 Electronic Media Ethics2	
EMTC-3151 Christian Approaches to Electronic Media 2	

Intercultural Communication Minor

Course requirements for the minor in intercultural communication	۱
involve 17 semester hours selected from the following courses:	
COM-2140 Intercultural Communication	.3
COM-2300 Voices Of Diversity	.3
COM-3150 Gender, Politics, and Communication	.3
COM-3240 Interpersonal Communication	.2
COM-3710 Communication and Cultural Literacy	.3
One of the following courses	.3
COM-3790 Cultural Immersion Clinic	
THTR-2510 Theatre for Social Change	
A departmental approved study abroad course	





Organizational Communication Minor

Course requirements for the minor in organizational communication involve 16 semester hours selected from the following courses:

COM-1000 Introduction to Communication Arts	3
COM-2000 Persuasive Theory	3
COM-2050 Communication Theory	
COM-2200 Communication in Applied Contexts	
COM-3100 Advanced Public Speaking	3
COM-3240 Interpersonal Communication	2
COM-3230 Organizational Communication	3
COM-3250 Interviewing	3
COM-3260 Organizational Negotiation	3
COM-3330 Organizational Training	3
COM-4060 Organizational Leadership	3
MGMT-3500 Principles of Organization and Management	3
MGMT-3530 Human Resource Management	3
•	

Theatre Minor

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Department of **Education**

Mission Statement

The Cedarville University Department of Education seeks to prepare compassionate, professional educators who are committed to the integration of faith, learning, and life as demonstrated in teaching competence and Christ-like character through leadership and service.

Department Distinctives

- Accreditation: Cedarville University is accredited by the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2502, phone: 312-263-0456. The University's teacher preparation programs are approved by the State of Ohio Department of Education.
- Each year approximately 10% of the senior education students pursue cross-cultural student teaching experiences. They teach under the supervision of experienced, certified teachers in approved, accredited, overseas institutions that use an American curriculum.
- The University's award-winning technology resources enable upper-level students to develop lessons and curriculum resource materials for K-12 partner technology schools. Because of training in the use of educational technology, graduates are sought by schools to help integrate technology into their curricula.
- Intensive clinical experiences accompany methods classes. As a result, many schools comment that Cedarville graduates possess experience and confidence uncommon in most 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

The education licensure programs listed in the catalog are subject to revision at any time given changes in national and state requirements for the Teacher Education programs in Ohio, which may also result in adjustment to your graduation requirements.

All programs leading to licensure at Cedarville University are approved by the 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 homepage on CedarNet. Licensure – Christian Schools

Individuals completing the program receive certification from the Association of Christian Schools International (ACSI). Christian

schools around the world recognize this certification. **Demographic Profile**

The number of teacher education program completers for the 2007–08 reporting period was 88. The demographic profile of program completers for the 2007–08 reporting period is:

	Number	Percent
White	85	96.5
African American	1	0.88
Hispanic	1	0.88
Asian	1	0.88
Other	0	0.0
Male	16	18.1
Female	72	81.8

Personal Requirements

Students interested in the teacher education program should enjoy the teaching and learning process and enjoy working with people. The best teachers are those who are life-long learners and enjoy serving others; they are people who are motivated more by making a difference in others' lives than in making a lot of money. Cedarville University desires to work with students who are becoming a professional in their treatment of others, in their dress and demeanor, and in punctuality and responsibility for tasks. Because of the increasingly stringent standards for teachers nationwide, teacher candidates must be able to demonstrate their preparedness to teach by achieving good grades and passing state-mandated tests for teachers.

Co-Curricular Opportunities

Numerous opportunities exist for tutoring in public schools, mentoring K-12 students, and becoming involved in local church ministries to children and adolescents.

Teacher Education Program Admission Requirements

Students admitted to Cedarville University must also make application for formal admission to the Teacher Education Program (TEP) usually late in the sophomore year. To be admitted, students must meet the following requirements at least one semester before enrolling in the first methods of teaching course for their particular program. These requirements apply to all students seeking a degree and/or license in either early childhood education, middle childhood education, special education, multi-age education, or adolescent/young adult education (i.e., secondary education). Students seeking a degree/licensure in a program offered by another department should review the requirements of that department as well.

- 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.
- Combined GPA of 2.65 and a grade of "C-" or above in both general education communications courses: COM-1100 Fundamentals of Speech and ENG-1400 English Composition.
- 3. Minimum GPA of 2.5 in the teaching field content area(s), and content core for early childhood education.
- No grade of less than "C-" in teaching field or concentration area courses. For early childhood and special education, this includes general education courses in the content areas of humanities, science, mathematics, and social science.
- 5. Minimum passing scores on the Praxis I (Pre-Professional Skills Test): Reading, 175; Writing, 174; Mathematics, 175.
- 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.

Teacher Education Program Retention and Completion Requirements

To maintain regular standing in the teacher education program and/or to receive a degree, students must maintain and/or complete the following requirements:

Maintain a GPA of 2.7 or above in all courses.

- 1. Obtain a "C-" or above in all methods courses.
- 2. Satisfactorily complete field and clinical experiences.
- 3. Earn a passing score on state-required Praxis II exams before enrolling in student teaching (licensure only).
- 4. Satisfactorily complete the internship experience.

Programs of Study

The department of education offers instruction with the purpose of providing excellent Christian teachers for Christian, public, international, and missionary schools. The University is approved by the Ohio Department of Education for programs leading to a teaching license or endorsement in several areas.

- Multi-Age Special Education Intervention Specialist
- Early Childhood Education (pre-K to grade 3)
- Middle Childhood Education (grades 4-9) Two concentrations chosen from:
 - Mathematics
 - Reading/Language Arts
 - Science
 - Social Studies

See appropriate department for a complete description of the following programs:

- Adolescent and Young Adult (grades 7-12)
 - Language Arts Education Integrated
 - (department of language and literature, page 119) • Life Science Education
 - Mathematics Education Integrated
 - Physical Science Education
 - Physics Education
 - Science Comprehensive Education Integrated (department of science and mathematics, page 161)
 - Social Studies Education Integrated
 - (department of history and government, page 101)
- Multi-Age Licensure (pre-K to grade 12)
 - Health Education
 - Physical Education
 - (department of exercise and sport science, page 89) • Music Education
 - (department of music, art, and worship, page 129) • Spanish Education
- (department of language and literature, page 119) Endorsements

Students interested in an endorsement must possess or be working toward the completion of a degree and licensure requirements in any of the current teaching licensure areas.

Early childhood or special education majors who wish to qualify	
for pre-kindergarten special education endorsement may do so	
by adding the following courses to their early childhood licensur	
ECSP-2500 Young Children with Special Needs	.3
ECSP-3500 Assessing and Teaching Young Children	.3
ECSP-3550 Clinical: Young Children with Special Needs	.3

TESOL (Teaching English to Speakers of Other Languages) Course requirements:

oouise requirements.	
COM-2140 Intercultural Communication	3
ENG-3060 History of the English Language	3
ENG-3070 Advanced Grammar for Adolescent and Young Adult	
Teachers	3
LING-3080 Linguistics for Language Learning	3
LING-3090 Sociolinguistics	3
LING-3600 Clinical Experience	1
LING-3610 Practicum	2
LING-3500 Methods of Teaching Foreign Language	2
Praxis II TESOL exam	

Career Opportunities

Christian and public schools actively recruit Cedarville education graduates. Graduate schools also welcome Cedarville students. Careers pursued by teacher graduates include:

- Christian school teacher
- Church education programs
- Elementary school teacher
 - High school or middle school teacher
- International school teacher
- Mission school teacher
- Music teacher K-12
- Physical education/health education teacher K-12
- Preschool director or teacher
- Elementary school teacher
- Special education (mild-moderate educational needs)
- Youth camps
- · Library science

Faculty

Stephen Gruber, *Chair:* Associate Professor of Education. *Education:* B.A., Cedarville University, 1974; M.Ed., Wright State University, 1977; Ed.S., Wright State University, 1984; Ed.D., Miami University, 1990. At Cedarville since 2000.

Merlin Ager, Professor of Education. *Education:* B.A., Cedarville University, 1960; M.S., University of Wisconsin, 1962; Ph.D., The Ohio State University, 1967. At Cedarville 1964-75, 1978-present. **Sue Baker**, Professor of Education. *Education:* B.S., Kent State University, 1968; M.Ed., Kent State University, 1972; Ed.D., University of Cincinnati, 1987. At Cedarville since 1978.

Eddie Baumann, Professor of Education. Education: B.S.,

University of Wisconsin, 1983; M.S., University of Wisconsin, 1987; Ph.D., University of Wisconsin, 1995. At Cedarville since 1993. **Sally Castle**, 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.

Terry Comers, Assistant Professor of Education. *Education*: B.A., Cedarville University, 1977; M.Ed. Wright State University, 1995. At Cedarville since 2004.

Shelley Dugle, Associate Professor of Education. *Education:* B.A., Cedarville University, 1995; M.Sp.Ed., Ball State University, 1998; Ed.D., University of Cincinnati, 2007. At Cedarville since 2000. Margaret Grigorenko, Assistant Professor of Education. *Education:* B.S., Bowling Green State University, 1978; M.Ed.,

Cedarville University, 1995; Ph.D. course work completed, The Ohio State University, 2008. At Cedarville since 2006.

Timothy Heaton, Professor of Education. *Education:* B.A., Wittenberg University, 1973; M.A., Grace Theological Seminary, 1986; Ph.D., University of Dayton, 1999. At Cedarville since 1987. John Hess, Director of Student Teaching and Licensure. *Education:* B.S., Cedarville University, 1967; M.Ed.Ad., University of Dayton, 1980; Post-graduate work, Wright State University and University of Dayton, 1990. At Cedarville since 2000. Education

Ruth Hess, Assistant Professor of Education. *Education:* B.A., Cedarville University, 1967; M.Ed., Cedarville University, 2009. At Cedarville since 2008.

Brenda MacKay, Associate Professor of Education. *Education:* B.A., Oglethorpe University, 1965; M.A., University of Georgia, 1972; Ed.D., Bob Jones University, 1992. At Cedarville since 2000.

Thomas Sweigard, Associate 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.

Omer Bonenberger, Associate Professor Emeritus 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.

Dwayne Frank, Professor Emeritus of Education. *Education:* B.A., Cedarville University, 1960; B.S., Central State University, 1960; M.A.T., Albertson College, 1965; Ed.D., University of Idaho, 1973. At Cedarville since 1968. PT/Adjunct since 2003.



Praxis II Pass Rate Data: Regular Teacher Preparation Program

Academic Year: 2007-08

Testing Period: 7/07–6/08

Number of Program Completers: 88

Type of Assessment	# Taking Praxis II	Ave. Pass Rate (%)	OH Pass Score	OH Pass Rate (%) ¹
Professional Knowledge				
Principles of Learning and Teaching: Early Child	30	100	166	100%
Principles of Learning and Teaching: 5-9	21	95	168	96%
Principles of Learning and Teaching: 7-12	30	100	165	97%

*No pass rate information is reported when fewer than 10 teacher candidates take a particular Praxis II test. Results are reported in Aggregate Assessment Pass Rate below. 'The state passing rate is based on data collected from all Ohio individuals taking the Praxis II in 2007–08, regardless of their status in a teacher education program. 'The national passing rate is calculated at Ohio's cut scores, which are among the highest in the nation.

Aggregate Assessment Pass Rate

Type of Assessment	# Taking Praxis II ³	# Passing Praxis II⁴	Institutional Pass Rate (%)	OH Pass Rate (%)
Aggregate- Professional knowledge	81	80	99	98
Aggregate- Academic Content Areas (Math, English, Biology, etc.)	101	99	98	98
Aggregate- Teaching Special Populations (Special Ed., ELS, etc.)	6	*	*	95
Summary Totals and Pass Rates⁵	81	79	98	96

³Number who took one or more tests in a category and within their area of specialization.

⁴Number who passed all tests they took in a category and within their area of specialization.

⁵Number who successfully completed one or more tests across all categories used by the state for licensure and the total pass rate.

*No pass rate information reported when fewer than 10 candidates take the exam.

Contextual Information for the 2007–08 Academic Year

Total number of students officially enrolled in teacher preparation, all specializations, in academic year 2007–08	461
Number of students in supervised student teaching in academic year 2007–08	93
Number of faculty members who supervised student teachers in 2007–08	20
Student teacher/faculty supervisor ratio*	4.6:1*
The average number of student teaching hours per week required	35
The total number of weeks of supervised student teaching required	12
Average total number of hours required	345

*Average number of student teachers supervised by each supervisor in each 13-week term of student teaching. Does not include overseas student teachers.

General Education Requirements for Education Majors

Education majors
Early Childhood Education (EC)
Middle Childhood Education (MC)
Special Education – Intervention Specialist (SpE)
Biblical and Theological Studies16
BEGE-1710 Christian Life and Thought
BEGE-1720 Spiritual Formation3
BEGE-2730 Old Testament Literature 3
BEGE-2740 New Testament Literature
BEGE-3750 Christian Worldview Development
BEGE-3760 Christian Worldview Integration
Communications6
COM-1100 Fundamentals of Speech
ENG-1400 English Composition3
Humanities10-11
EDUC-2400 Children's Literature (EC, SpE)
(or COM-2300 Voices of Diversity (MC)
¹ EDUC-4500 Philosophy of Education
*HUM-1400 Introduction to the Humanities
*Literature Elective
Physical Education2
PEF-1990 Physical Activity and the Christian Life 1
Physical Education Activity Elective1
Science and Mathematics13-17
*GBIO-1000 Principles of Biology
EDUC-1800 Principles of Mathematics I
EDUC-2800 Principles of Mathematics II
^{2*} GSCI-1010 Principles of Earth Science (EC, SpE)
*GSCI-2010 Physical Science for Teachers (EC, SpE)
Any GSCI or ESCI laboratory course (MC)
Social Science9
*GSS-1100 Politics and American Culture
HIST-1110 United State History I
(or HIST-1120 United States History II
*Global Awareness elective selected from
ANTH-1800 Cultural Anthropology3
GEO-3520 World Regional Geography – Eastern
HIST-3220 History and Politics of the Middle East
HIST-XXXX History Elective3
Foreign Language 0-8
See the global awareness section of the general education
requirements.
¹ Taken concurrently with student teaching

¹Taken concurrently with student teaching

²Not required for Special Education only majors

*Content core courses for early childhood and special education

Teacher Education Core

Required of all Teacher Education majors Teacher Education Core	12
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	
EDSP-2000 Teaching Children with Exceptionalities	2
EDSP-2050 Special Education Field Experience	1



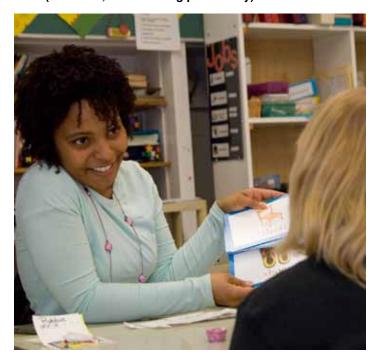


Early Childhood Education The **early childhood education** major prepares students to teach preschool and early elementary school (pre-K to grade 3) in public and Christian schools.

Course requirements involve 69 semester hours including: Teacher Education Core (see page 73) Early Childhood Foundations 11 EDEC-2100 Art, Music, and Drama for Early Childhood 2 EDEC-2300 Phonics and the Reading Process 4 EDSP-2500 Survey of Mental Retardation and
Developmental Disabilities: EC
PYCH-2725 Child Development
Early Childhood Methods I
EDEC-3500 Early Childhood Education3
EDEC-3600 Issues in Early Childhood Administration
EDEC-3800 Teaching Reading and Lang. Arts: EC
EDEC-3900 Field Experience in Early Childhood Education 1
EDEC-3950 Early Childhood Clinical I
EDSP-3100 Diagnostic and Remedial Reading
EDUC-3600 Principles of Value Added Assessment
Early Childhood Methods II
EDEC-4000 Reading in the Content Area: Early Childhood 2
EDEC-4100 Teaching Mathematics: Early Childhood
EDEC-4200 Teaching Science: Early Childhood
EDEC-4300 Teaching Social Studies: Early Childhood
EDEC-4450 Early Childhood Clinical II
EDSP-4250 Communication, Collaboration, and Inclusion
Skills
*EDEC-4900 Student Teaching and Seminar: EC 10-12
*Capstone Course

Early Childhood Education Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	61-69
Early Childhood Education Major Requirements	
Total (minimum, not including proficiency)	130



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

Suggested Four-Year Curriculum for a Major in Early Childhood Education

First year:

Thoe your.	
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	. 3
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession	. 1
EDUC-1050 Contemporary Christian Schools	. 0
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
GEO-3520 World Regional Geography - Eastern	. 3
GSCI-1010 Principles of Earth Science	3.5
GSS-1100 Politics and American Culture	. 3
PEF-1990 Physical Activity and the Christian Life	. 1
PYCH-2725 Child Development	
Literature Elective	
Total	32

Second year

Second year.	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
BEGE-3750 Christian Worldview Development	2
EDEC-2100 Art, Music, and Drama for Early Child	lhood2
EDSP-2000 Teaching Children with Exceptionaliti	es2
EDSP-2050 Special Education Field Experience.	
EDSP-2500 Survey of Mental Retardation and De	v. Disabilities 1
EDUC-1800 Principles of Mathematics I	
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2400 Children's Literature	
ESED-2900 Health and Movement Education	2
GSCI-2010 Physical Science for Teachers	
HIST-3750 Social Movements	
Total	

Third year:

BEGE-3760 Christian Worldview Integration	2
EDEC-2300 Phonics and the Reading Process	4
EDEC-3500 Early Childhood Education	3
EDEC-3600 Issues in Early Childhood Administration	3
EDEC-3800 Teaching Reading and Language Arts: Early Childho	od4
EDEC-3900 Field Experience in Early Childhood Education	1
EDEC-3950 Early Childhood Clinical I	3
EDSP-3100 Diagnostic and Remedial Reading	3
EDUC-2500 Educational Psychology	3
EDUC-2800 Principles of Mathematics II	3
EDUC-3700 Principles of Value Added Assessment	2
HUM-1400 Introduction to the Humanities	3
Physical Education Activity Elective	1
Total	35

Fourth year:

EDEC-4000 Readi	ng in the Content Area: Early Childhood	2
EDEC-4100 Teach	ing Mathematics: Early Childhood	4
EDEC-4200 Teach	ing Science: Early Childhood	3
EDEC-4300 Teach	ing Social Studies: Early Childhood	3
EDEC-4450 Early	Childhood Clinical II	3
EDEC-4900 Stude	nt Teaching and Seminar (Early Childhood).	. 10-12
EDSP-4250 Comm	nunication, Collaboration, and Inclusion	2
EDUC-4500 Philos	sophy of Education	2
Total		. 29-31

Middle Childhood Education

The **middle childhood education** major prepares students to teach upper elementary or middle school (grades 4 to 9). Students will prepare to teach in two of the four major curriculum areas: reading and language arts, mathematics, science, or social studies.

Course requirements involve 50 education semester hours plus 21-24 concentration area hours including:

21-24 concentration area nours including:	
Teacher Education Core (see page 73)12	
Middle School Methods I14	
EDMC-3500 Principles of Teaching for Middle Childhood 3	
EDMC-3600 Phonics/Structure Language	
EDMC-3700 Teaching Reading / Middle Child. Lit	
EDMC-3950 Middle School Clinical I2	
EDUC-3600 Principles of Value Added Assessment	
Middle School Methods II14	
EDMC-4000 Reading in Content Area: Middle Childhood	
EDMC-4050 Responsive Schools for Middle Childhood2	
EDMC-4440 Middle School Clinical II2	
EDSP-4000 Principles of Inclusion 1	
Two of the following based on concentration areas	
EDMC-3800 Writing Process and Language Arts	
Methods for Middle School3	
EDMC-4100 Teaching Math: Middle Childhood	
EDMC-4200 Teaching Science: Middle Childhood3	
EDMC-4300 Teaching Soc. St.: Middle Childhood	
Student Teaching 10-12	
*EDMC-4900 Student Teaching and Seminar 10-12	
*Capstone Course	

Concentration Areas (must choose two)

Methemotice (India Choose two)
Mathematics
EDMC-3300 Topics in Middle School Mathematics
*EDUC-1800 Principles of Mathematics I
*EDUC-2800 Principles of Mathematics II
GMTH-1020 College Algebra
GMTH-1030 Pre-Calculus
GMTH-3010 Proof and Mathematical Modeling
MATH-1710 Calculus I
Reading/Language Arts
COM-2320 Theories of Mass Media
*ENG-1400 Composition
ENG-2230 Advanced Composition 3
ENG-3060 English Language
ENG-3070 Adv. Grammar for Adolescent Teachers
*LIT-2300 Introduction to Literature
(or LIT-2340 Western Literature3)
LIT-2390 Survey of American Literature to 1900
Science
*GBIO-1000 Principles of Biology
CHEM-1000 Principles of Chemistry5
CHEM-1000 Principles of Chemistry
CHEM-1000 Principles of Chemistry 5 (or CHEM-1110 General Chemistry I
CHEM-1000 Principles of Chemistry

Middle Childhood Education Major Curriculum Summary

Proficiency Requirements	0-8
General Education Requirements	
Middle Childhood Education Major Requirements	50
Concentration Requirements	21-24
Total (minimum, not including proficiency)	128-147
*Total credits vary depending on concentrations chosen.	

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

Suggested Four-Year Curriculum for a Major in Middle Childhood Education

Major in Middle Childhood Education
First year: BEGE-1710 Christian Life and Thought
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 Multi-cultural Field Experience 1 EDUC-2500 Educational Psychology 3 EDUC-2800 Principles of Mathematics II 3 ESCI/GSCI-1XXX Physical Science Elective 3.5-4 Concentration Electives 3 Literature Elective 3 Literature Elective 3 Total 34.5-35
Third year: BEGE-3750 Christian Worldview Development
Fourth year:BEGE-3760 Christian Worldview Integration2COM-2300 Voices of Diversity3EDMC-4000 Reading in the Content Area Middle Childhood3EDMC-4050 Responsive Schools for Middle Childhood2EDMC-4440 Middle School Clinical II2EDMC-4900 Student Teaching and Seminar10-12EDMC-XXXX Middle School Methods II Concentration Areas6EDUC-4500 Philosophy of Education2Concentration Electives4Total34-36

Special Education – Intervention Specialist The special education-intervention specialist major prepares

The **special education-intervention specialist** major prepares teachers to work with students in grades pre-K to 12 who have mild to moderate special education needs.

Course requirements involve 77 semester hours including:Teacher Education Core (see page 73)12Special Education Foundations10EDEC-2300 Phonics and the Reading Process4EDSP-2400 Language Development2
EDSP-3500 Special Education Law1
PYCH-2735 Child-Adolescent Development
Special Education Block16
EDSP-2700 Teaching Children Mild to Moderate Disabilities 3
EDSP-4100 Adaptive Curriculum and Instruction2
EDSP-4150 Career and Occupational Training2
EDSP-4300 Behavior and Instructional Management
EDSP-4400 Assessment in Special Education
EDSP-4550 Special Education Clinical: AYA
Reading Methods
EDEC-3800 Teaching Reading and Lang. Arts: EC
EDSP-3950 Special Ed. Clinical: Early Childhood
EDUC-3600 Principles of Value Added Assessment
Early Childhood Methods II
EDEC-4000 Reading in the Content Area
EDEC-4100 Teaching Mathematics: Early Childhood
EDEC-4200 Teaching Science: Early Childhood
EDEC-4300 Teaching Social Studies: Early Childhood
EDSP-4250 Communication, Collaboration and Inclusion
Skills
EDSP-4450 Special Ed. Clinical: Middle Childhood
Student Teaching 10-12
*EDSP-4900 Student Teaching and Seminar: Sp.E 10-12 *Capstone Course

Special Education Major Curriculum Summary

Proficiency Requirements	
General Education Requirements	
Special Education Major Requirements	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Special Education-Intervention Specialist

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
EDUC-1800 Principles of Mathematics I	
EDUC-2400 Children's Literature	3
ENG-1400 Composition	3
GBIO-1000 Principles of Biology	. 3.5
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
PYCH-2735 Child-Adolescent Development	3
Literature Elective	3
Physical Education Activity Elective	1
Total	36.5

Second year:

eeeena jean	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BEGE-3750 Christian Worldview Development	2
EDSP-2000 Teaching Children with Exceptionalities	2
EDSP-2400 Language Development	
EDSP-2050 Special Education Field Experience	
EDSP-3500 Special Education Law	1
EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators	3
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDEC-2300 Phonics and the Reading Process	4
EDUC-2500 Educational Psychology	3
EDUC-2800 Principles of Mathematics II	
GSCI-2010 Physical Science for Teachers	
Total	

Third year:

BEGE-3760 Christian Worldview Integration	2
EDEC-3800 Teaching Reading and Language Arts: Early Childho	
EDEC-4000 Reading in the Content Area: Early Childhood	2
EDEC-4100 Teaching Mathematics: Early Childhood	4
EDEC-4200 Teaching Science: Early Childhood	3
EDEC-4300 Teaching Social Studies: Early Childhood	3
EDSP-3950 Special Education Clinical: Early Childhood	3
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDSP-4450 Special Education Clinical: Middle Childhood	3
EDUC-3600 Principles of Value Added Assessment	2
HIST-3750 Social Movements	3
Total	31

Fourth year:

rounnycar.
EDSP-2700 Teaching Children Mild-Moderate Disabilities
EDSP-4100 Adaptive Curriculum and Instruction
EDSP-4150 Career Educ. and Occ. Training for Exc. Individuals 2
EDSP-4300 Behavior and Instructional Management
EDSP-4400 Assessment in Special Education
EDSP-4550 Special Education Clinical: Adolescent / Young Adult 3
EDUC-4500 Philosophy of Education
EDUC-4900 Student Teaching and Seminar: Special Education 10-12
GEO-3520 World Regional Geography – Eastern
Total

Special Education/Early Childhood Education Dual Licensure Option

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.

Additional Courses for dual licensure	15.5-16
EDEC-2100 Art, Music, and Drama for Early Childhood	
EDEC-3500 Early Childhood Education	3
EDEC-3600 Issues in Early Childhood Administration	3
EDEC-3900 Field Experience in Early Childhood Educ	1
EDSP-2500 Survey of Mental Retardation and	
Developmental Disabilities: EC	1
ESED-2900 Health and Movement Education	2



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

Suggested Four-Year Curriculum for Dual Licensure for Majors in Special Education-Intervention and Early Childhood Education

First	Voar
11130	vuu

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession	
EDUC-1050 Contemporary Christian Schools	0
EDUC-1800 Principles of Mathematics I	
EDUC-2400 Children's Literature	3
ENG-1400 Composition	
GBIO-1000 Principles of Biology	3.5
GSCI-1010 Principles of Earth Science	3.5
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
PYCH-2735 Child-Adolescent Development	
Literature Elective	3
Physical Education Activity Elective	1
Total	40

econd 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-2400 Language Development 2 EDSP-2500 Special Education Field Experience 1 EDSP-2500 Survey of MR/DD: Early Childhood 1 EDSP-3500 Special Education Law 1 EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3 2 EDUC-2000 Introduction to Teaching 2 EDUC-2100 Technology in the Classroom 2 EDUC-2300 Phonics and the Reading Process 4 EDUC-2500 Educational Psychology 3 BDUC-2800 Principles of Mathematics II 3 GSCI-2010 Physical Science for Teachers. 4 Total 39	Second year.	
BEGE-3750 Christian Worldview Development 2 EDEC-2100 Art, Music, and Drama for Early Childhood 2 EDSP-2000 Teaching Children with Exceptionalities 2 EDSP-2000 Special Education Field Experience 1 EDSP-3500 Special Education Law 1 EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3 2 EDUC-2000 Introduction to Teaching 2 EDUC-2100 Technology in the Classroom 2 EDUC-2200 Multicultural Field Experience 1 EDEC-2300 Phonics and the Reading Process 4 EDUC-2800 Principles of Mathematics II 3 GSCI-2010 Physical Science for Teachers 4	BEGE-2730 Old Testament Literature	. 3
EDEC-2100 Art, Music, and Drama for Early Childhood 2 EDSP-2000 Teaching Children with Exceptionalities 2 EDSP-2400 Language Development 2 EDSP-2050 Special Education Field Experience 1 EDSP-2500 Survey of MR/DD: Early Childhood 1 EDSP-3500 Special Education Law 1 EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3 2 EDUC-2000 Introduction to Teaching 2 EDUC-2100 Technology in the Classroom 2 EDUC-2200 Multicultural Field Experience 1 EDEC-2300 Phonics and the Reading Process 4 EDUC-2800 Principles of Mathematics II 3 GSCI-2010 Physical Science for Teachers 4	BEGE-2740 New Testament Literature	. 3
EDSP-2000 Teaching Children with Exceptionalities2EDSP-2400 Language Development2EDSP-2050 Special Education Field Experience1EDSP-2500 Survey of MR/DD: Early Childhood1EDSP-3500 Special Education Law1EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	BEGE-3750 Christian Worldview Development	. 2
EDSP-2400 Language Development	EDEC-2100 Art, Music, and Drama for Early Childhood	. 2
EDSP-2050 Special Education Field Experience1EDSP-2500 Survey of MR/DD: Early Childhood1EDSP-3500 Special Education Law1EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-2000 Teaching Children with Exceptionalities	. 2
EDSP-2500 Survey of MR/DD: Early Childhood.1EDSP-3500 Special Education Law1EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-2400 Language Development	. 2
EDSP-3500 Special Education Law1EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-2050 Special Education Field Experience	. 1
EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educators3EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-2500 Survey of MR/DD: Early Childhood	. 1
EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-3500 Special Education Law	. 1
EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDSP-3150 Intervention and Diagnosis in Reading for Sp. Educator	s3
EDUC-2200 Multicultural Field Experience1EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDUC-2000 Introduction to Teaching	. 2
EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDUC-2100 Technology in the Classroom	. 2
EDEC-2300 Phonics and the Reading Process4EDUC-2500 Educational Psychology3EDUC-2800 Principles of Mathematics II3GSCI-2010 Physical Science for Teachers4	EDUC-2200 Multicultural Field Experience	. 1
EDUC-2800 Principles of Mathematics II		
EDUC-2800 Principles of Mathematics II	EDUC-2500 Educational Psychology	. 3
Total	GSCI-2010 Physical Science for Teachers	. 4
	Total	39

Third year:

mild your.	
BEGE-3760 Christian Worldview Integration	2
EDEC-3500 Early Childhood Education	3
EDEC-3600 Issues in Early Childhood Administration	3
EDEC-3800 Teaching Reading and Language Arts: Early Childhood	d4
EDEC-3900 Field Experience in Early Childhood Education	. 1
EDEC-4000 Reading in the Content Area: Early Childhood	2
EDEC-4100 Teaching Mathematics: Early Childhood	. 4
EDEC-4200 Teaching Science: Early Childhood	3
EDEC-4300 Teaching Social Studies: Early Childhood	3
EDSP-3950 Special Education Clinical: Early Childhood	3
EDSP-4250 Communication, Collaboration, and Inclusion	2
EDSP-4450 Special Education Clinical: Middle Childhood	3
EDUC-3600 Principles of Value Added Assessment	2
ESED-2900 Health and Movement Education for Young Child	2
HIST-3750 Social Movements	3
Total	41

Fourth year:

EDSP-2700 Teaching Children Mild-Moderate Disabilities	3
EDSP-4100 Adaptive Curriculum and Instruction	2
EDSP-4150 Career Educ. and Occ. Training for Exc. Individuals	2
EDSP-4300 Behavior and Instructional Management	2
EDSP-4400 Assessment in Special Education	4
EDSP-4550 Special Education Clinical: Adolescent / Young Adult	3
EDUC-4500 Philosophy of Education	2
EDUC-4950 Student Teaching and Seminar: Spcl Educ/EC	
GEO-3520 World Regional Geography - Eastern	3
Total	

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.

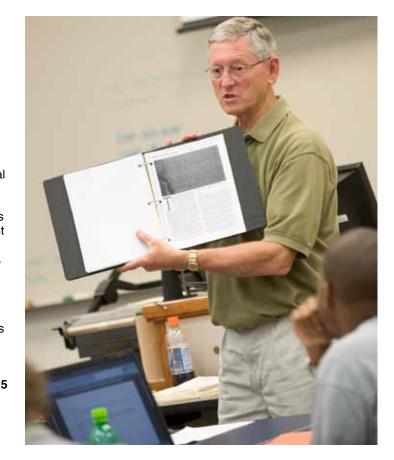
The **multi-age licensure** education programs prepare students to work with students in grades pre-K to 12. The Ohio Department of Education has approved Cedarville University to issue multiage licenses in the areas of music education, Spanish education, physical education, and health education.

The course requirements for each licensure field are outlined in the catalog under the department that offers the major; however, the following courses are common to all adolescent/ young adult and multi-age education majors and are prerequisites for admission to the teacher education program and upper-level classes.

Teacher Education Core courses	15
COM-2300 Voices of Diversity	3
EDSP-2050 Special Education Field Experience	
EDSP-2000 Teaching Children with Exceptionalities	
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	
EDUC-2200 Multicultural Field Experience	
EDUC-2500 Educational Psychology	3

Upon completion of the Teacher Education Core and before enrolling in the Principles of Teaching block, students must make formal application to the TEP. The requirements for admission to the TEP are outlined earlier in this section of the catalog. Most adolescent and young adult and multi-age teacher education majors apply for admission during their junior year. The education department's licensure and testing coordinator provides students with specific information on procedures for admission to the TEP.





Principles of Teaching Block (all AYA majors and MA Spanish) The following courses are to be taken together just prior to the student teaching experience

Sudeni leaching experience.
EDSE-4100 Principles of Teaching: Adolescent and Young Adult5
¹ EDSE-3300 Developmental Reading
² EDSE-4000 Reading in the Content Area: AYA
EDSE-4450 Adolescent/Young Adult Clinical Experience3
EDSP-4000 Principles of Inclusion1
Additional Requirements:
³ EDUC-4500 Philosophy of Education2
EDSE-4900 Student Teaching and Seminar: AYA 10-12

(or EDUC-4900 Student Teaching and Seminar: Multi-Age10-12) ¹Adolescent and Young Adult integrated language arts majors only

²Adolescent and Young Adult integrated language arts does not take this course. Adolescent and Young Adult math majors may take this course out-of-class in the summer.

³Must have been admitted to the TEP or achieved junior status. Normally taken concurrently with student teaching.

Department of

Engineering and Computer Science

Mission Statement

The Elmer W. Engstrom Department of Engineering and Computer Science offers accredited programs in Computer, Electrical, and Mechanical Engineering, as well as Computer Science. Our philosophy centers on a rigorous, back-to-basics education that is rich with hands-on opportunities to apply classroom theory. Our faculty share a common vision that states: "We, the Elmer W. Engstrom Department of Engineering and Computer Science, seek to honor the Lord Jesus Christ in every endeavor and earnestly desire to cultivate technical professionals who are committed to moral excellence and who are exemplary in character, conduct, and skill. Therefore, we strive to provide an excellent educational environment that will nurture our students to honor the Lord in all things and help them to grow in spiritual maturity, wisdom, knowledge, and expertise for purposeful lives of service."

Programs of Study

The department of engineering and computer science offers the following programs of study:

Majors

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

Minors

- Biomedical Engineering
- Computer Science

Special Programs

- Cooperative Education Program
- · Engineering Honors Program

Accreditation

The B.S.Cp.E., B.S.E.E., and B.S.M.E. degree programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The B.S. in computer science degree program is accredited by the Computing Accreditation Commission of ABET, Inc.

Registration as a Professional Engineer

Senior engineering majors and graduate engineers are eligible to take the NCEES Fundamentals of Engineering (FE) Examination offered by the Ohio Society of Professional Engineers. This exam is the first of two required to become a registered professional engineer and is offered each spring at Cedarville University (CU). CU seniors have passed the FE exam at a rate that is consistently higher than the national pass rates.

Personal Requirements

Students interested in one of the programs housed within the department of engineering and computer science should possess a strong aptitude in mathematics and physical sciences. Those students who flourish in our programs typically enjoy applying their aptitude toward solving problems. Successful engineers and computer scientists are individuals who enjoy designing solutions to problems.

Department Requirements

New Students

Entering students are required to have an ACT composite score of at least 22 (or an SAT of at least 1010) in order to declare a major in the department. Students who do not meet this standard or do not demonstrate equivalent competency may request admission to the department on a provisional status.

To prepare for engineering or computer science, high school students should take a college preparatory curriculum that includes:

- 4 units of mathematics (algebra, geometry, trigonometry, and advanced mathematics or precalculus)
- 4 units of science (physical science, biology, chemistry, and physics)
- 2 units of the same foreign language

Experience with spreadsheets and word processors is helpful, but not required for entry.

Retention Requirement

Engineering students must demonstrate proficiency in certain lower-level courses to advance into upper-level 3000- and 4000-level courses. Therefore, all students must earn an overall GPA of at least 2.0 by the end of their sophomore year. In addition, each program within the department has its own specific retention requirements as follows.

Computer Engineering

To advance into the junior year, CpE majors must earn a combined GPA of at least 2.0 in the following engineering and computer science courses: CS-1210, 1220, and 2210, EGCP-1010, EGGN-1110, EGEE-2010, and EGME-1810 and 2510.

In addition, CpE majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2740 and MATH-3110; and PHYS-2110 and 2120.

Electrical Engineering

To advance into the junior year, EE majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2010, and EGME- 1810, 2510, and 2630.

In addition, EE majors must earn a combined GPA of at least 2.0 in the following cognate courses: CS-1210; MATH-1710, 1720, 2710, and 2740; and PHYS-2110 and 2120.



Engineering and Computer Science

School of Natural and Applied Sciences

Mechanical Engineering

To advance into the junior year, ME majors must earn a combined GPA of at least 2.0 in the following engineering courses: EGCP-1010, EGGN-1110, EGEE-2050, and EGME-1810, 2050, 2530, and 2630.

In addition, ME majors must earn a combined GPA of at least 2.0 in the following cognate courses: MATH-1710, 1720, 2710, and 2740 and PHYS-2110 and 2120.

Graduation Requirements

- 1. Earn a cumulative GPA of at least 2.0 in all major and cognate courses.
- All engineering majors must take an assessment exam similar to the NCEES FE exam.
- 3. CS majors must achieve a grade of at least a C- in the following courses: CS-1210, 1220, 2210, 3410, 4810, and MATH-1710, 2510.

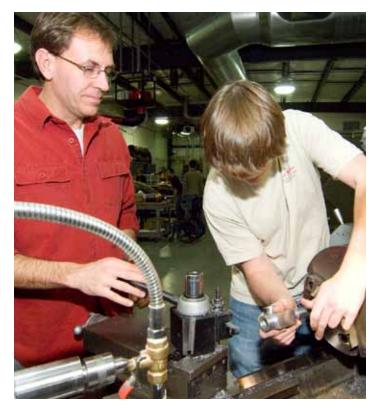
Technical Resources

Our modern laboratories include the following: fluids lab with an 18-inch cross-section wind tunnel, heat transfer, refrigeration, mechanics, materials testing, internal combustion engines, and dynamometers, CNC manufacturing, vibrations, dynamics of machines, electrical machines, feedback controls, circuits, electronics, communications, digital logic design, microprocessors, surface-mount soldering, and a parallel computing cluster. We also have extensive PC-based laboratories in which students use computer-based circuit design, 3-D solid modeling, FEA, CFD, CNC, and industry-standard IDE software.

Co-Curricular Opportunities

Engineering freshmen participate in an annual Cardboard Canoe Challenge. Other course-based competitions include statics and dynamics design competitions for sophomores, an Advanced Digital Logic Design competition, and an annual programming contest. The department provides students with opportunities to participate in national and international design competitions organized by professional engineering societies such as ACM, ASME, IEEE, SAE, ASEE, and SWE. Our students participate in Aero Design®, Formula SAE®, international programming, Mini Baja®, robotics, Solar Splash®, and Supermileage® competitions.





Career Opportunities

Engineering and computer science both involve the application of scientific and mathematical principles, experience, judgment, and common sense to develop devices which help people. Engineers redesign products to work more efficiently, more quickly, and less expensively. They design EKG and ultra-sound machines that help doctors diagnose medical problems, electrical engineering plants to power our cities, and more fuel-efficient cars and airplanes. Computer programmers develop the software solutions that are used to pilot spacecraft, combat terrorism, prevent collisions at airports, and keep our cars running.

Computer scientists and engineers spend a great deal of time interacting and communicating with others, often working on a team. Because of their strong background in science, mathematics, and technology, they often rise to leadership positions in organizations, managing programs in research, development, design, construction, production, operations, marketing, and sales.

In this era of rapid technological change, an engineering or computer science education serves our society well. In the decades ahead, society's needs and problems will call for technical contributions on a scale not previously experienced.

Engineering Educational Objectives

The Elmer W. Engstrom Department of Engineering and Computer Science educational objectives define God-honoring characteristics of our students three to five years after graduation from Cedarville University.

- 1. They are successful in a profession related to their field of study.
- 2. They are prepared for graduate-level education programs.
- 3. They continue to develop professionally and remain current in their field.
- 4. They make sound professional and ethical decisions based upon biblical truths.
- 5. They actively serve in and support Christian ministries, both in their communities and around the world.

Educational Philosophy for Engineering Programs

Each engineering program requires 140 hours to complete; of these, at least 67 hours are engineering topics. The programs are designed to give our graduates a solid background in engineering science and a meaningful design experience at the senior level appropriate to the chosen field of study. Although there are distinctives between the specific engineering programs (see the department website), the educational philosophy for all of the engineering programs can be summarized as follows:

- 1. Expose students to the basic laws of nature to encourage an understanding of the creation.
- 2. Equip students with mathematical modeling tools that will enable them to describe the behavior of systems.
- Require students to apply theoretical models, computer simulations, and laboratory experimentation to analyze engineering systems.
- 4. Require students to use analytical and numerical techniques to systematically solve engineering problems.
- 5. Require students to work in teams to solve engineering problems.
- 6. Equip students to evaluate designs for conformance to technical and ethical standards.
- 7. Require students to demonstrate effective oral and written communication skills.
- 8. Promote engineering as a profession, encourage participation in engineering organizations, and foster professional development.
- Encourage students to see engineering in the broader context of general education, to grow in their relationship with Jesus Christ, and to apply a Christian worldview to all life and learning.

The educational philosophy supports ABET's Criterion three desired outcomes (a) through (k).



Faculty

Samuel SanGregory, *Chair:* Professor of Electrical Engineering. *Education:* B.S.E., Wright State University, 1988; M.S.C.E., Air Force Institute of Technology, 1992; Ph.D., Air Force Institute of Technology, 1999. At Cedarville since 1993.

Robert Chasnov, Assistant to the Chair: Professor of Engineering. *Education:* B.S., Rensselaer Polytechnic Institute, 1978; M.S., University of Illinois, 1980; Ph.D., University of Illinois, 1983; registered professional engineer. At Cedarville since 1991.

Stanley Baczek, Dean, School of Natural and Applied Sciences: Professor of Polymer Science and Engineering. *Education:* B.S., Southeastern Massachusetts University, 1969; M.S., University of Massachusetts, 1975; Ph.D., University of Massachusetts, 1977. At Cedarville since 2003.

Gerald Brown, Assistant Professor of Electrical Engineering. *Education:* B.Engr., McMaster University, 1982; M.Engr., McMaster University, 1984; Ph.D., McMaster University, 1989. At Cedarville since 2004.

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.

David M. Gallagher, Professor of Computer Science. *Education:* B.S., Electrical Engineering, United States Air Force Academy, 1978; M.S., Electrical Engineering, Air Force Institute of Technology, 1987; Ph.D., Electrical Engineering, University of Illinois, 1995. At Cedarville since 2000.

Harwood Hegna, Professor of Mechanical Engineering. *Education:* B.S.A.E., University of Minnesota, 1969; M.S.A.E., University of Minnesota, 1971; M.S.M.E., University of Minnesota, 1973; Ph.D., Air Force Institute of Technology, 1981; registered professional engineer. At Cedarville since 1992.

Nan Jiang, Assistant Professor of Computer Science. *Education:* Bachelor of Civil Engineering and Computer Applications, Shenyang Jianzhu University, 1997; M.S., Computer Science, University of Oklahoma, 2003; Ph.D,. Computer Science, 2009. At Cedarville since 2009.

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, Professor of Computer Engineering. *Education:* B.S.E.E., South Dakota State University, 1988; M.S.E.E., University of North Dakota, 1990; Ph.D., Iowa State University, 1992. At Cedarville since 1994.

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; registered professional engineer. At Cedarville since 2003.

Robert Schumacher, Assistant Professor of Mathematics and Computer Science. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993. **Keith Shomper**, Associate Professor of Computer Science. *Education:* B.A., University of Northern Colorado, 1983; M.S., Air Force Institute of Technology, 1984. Ph.D., The Ohio State University, 1993. At Cedarville since 2003.

School of Natural and Applied Sciences

D. Jeff Shortt, Professor of Electrical Engineering. *Education:* B.S.E.E., Virginia Polytechnic Institute and State University, 1974; M.S.E.E., Virginia Polytechnic Institute and State University, 1979; Ph.D., Virginia Polytechnic Institute and State University, 1982. At Cedarville since 1996.

Thomas Thompson, Associate Professor of Mechanical Engineering. *Education:* B.S.M.E., University of Nebraska-Lincoln, 1984; M.S.M.E., University of Nebraska-Lincoln, 1986; Ph.D., Iowa State University, 1995; registered professional engineer. At Cedarville since 1995.

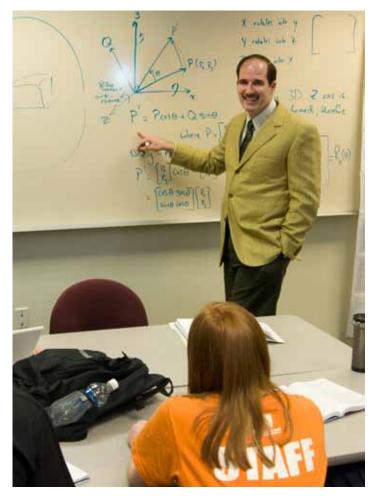
Timothy Tuinstra, Assistant Professor of Electrical Engineering. *Education:* B.S.E.E., Cedarville University, 1996; M.S.E.E., University of Dayton, 1998; Ph.D. in progress (ABD), University of Dayton. At Cedarville since 2002.

Tim Yao, Associate Professor of Electrical Engineering. *Education:* B.S. in Computer Engineering, National Chiao-Tung University, 1987; M.S., Electrical Engineering, National Taiwan University, 1989; M.S., Electrical Engineering, University of Maryland at College Park, 1995; Ph.D., Electrical Engineering, University of Maryland at College Park 1997. At Cedarville since 2009. Lawrence Zavodney, Senior Professor of Mechanical Engineering. *Education:* B.S.M.E., The University of Akron, 1974; M.S.M.E., The University of Akron, 1977; Ph.D., Virginia Polytechnic Institute and State University, 1987; registered professional engineer. At Cedarville since 1992.

Technical Support Staff

David Denlinger, Mechanical Engineering Technician. At Cedarville since 1993.

James Landers, Computer and Electrical Engineering Technician, *Education:* Gateway Electronics, Microsoft, FCC. At Cedarville since 2005.

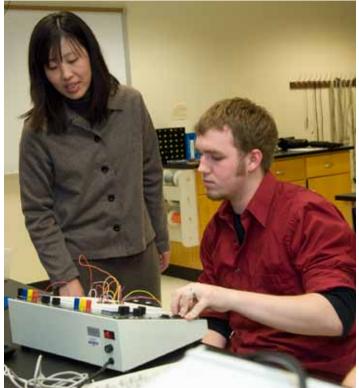


Engineering Advisory Council

The Engineering Advisory Council consists of professional engineers, researchers, and business leaders representing a variety of engineering-related businesses. Through annual meetings, these experts advise the University and evaluate its programs and plans for building upon Cedarville's reputation for excellence in undergraduate engineering education.

Council members include:

Eugene Apple, General Electric Corporation, retired Ronald Baker, Hi-Tech Aero Spares Carl Bertsche, Jr., Production Engineering Company James Brandeberry, Wright State University Joe Buonodono, Johnson Controls, Inc. Hal Carter, University of Cincinnati Gary Clasby, Duriron Company, Inc. Tom Curran, WPAFB, Aero Propulsion and Power, retired Jerry Drobinski, Global Development and Sourcing, Inc. William Engstrom, Engstrom Foundation Stephen Harris, Rixan Associates, Inc. John Harshbarger, Video Instruments Richard Holmes, Holmes and Mays Phillip Houston, Greene County Department of Development Dan Kerr, GM Specialty Cars Division Frank Klatt, Rockwell International, retired Ed Krupka, Burris Logistics Tim Lawrence, Ball Aerospace and Technologies Corp. Joe Mays, Holmes and Mays Walker Mitchell, Mitchell Consulting Bob Porter, Xetron (Northrop Grumman) Dan Rogers, Duotech Services Greg Smith, Northrop Grumman Space Technology Terry Smith, Rittal Corporation Jay Tieber, Ohio Department of Development Don Wilkinson, ODL, Inc. Edwin Young, University of Michigan



Computer Science – Bachelor of Science

Course requirements for the B.S. degree in computer science are comprised of the following and may be modified by the department chair.

department chair.
Course requirements involve 51 semester hours including:
Computer Science Core Requirements45
CS-1210 C++ Programming2
CS-1220 Object-Oriented Design Using C++
CS-2210 Data Structures Using Java 3
CS-3210 Programming Language Survey
CS-3310 Operating Systems 3
CS-3410 Algorithms3
CS-3510 Compiler Theory and Practice
CS-3610 Database Organization and Design
CS-4220 Web Applications 3
*CS-4810,4820 Software Engineering I, II7
EGCP-1010 Digital Logic Design 3
EGCP-2110 Microprocessors 3
EGGN-3110 Professional Ethics 3
EGGN-4010 Senior Seminar0
MATH-2510 Discrete Mathematics for Computer Science 3
Technical Electives chosen from the following6
Any 3000- or 4000-level computer science course
EGCP-3010 Advanced Digital Logic Design
EGCP-3210 Computer Architecture 3
EGCP-4210 Advanced Computer Architecture
MATH-3500 Number Theory 3
MATH-3610 Linear Algebra 3
MATH-3760 Numerical Analysis3
Other courses with pre-approval of department chair
*Capstone Course

Required Cognates	
CHEM-1050 Chemistry for Engineers	
(or CHEM-1110 General Chemistry I	4)
MATH-1710,1720 Calculus I, II	
MATH-3110 Probability and Statistics I	
PHYS-2110, 2120 General Physics I, II	

Optional Computer Science Tracks**.....9

Replace 6 hours of technical electives with 9 hours from one of the following computer science track

Computer Graphic Track

CS-4710 Computer Graphics3
Choose one of the following groups:
Group1
EMTC-2110 Video Technical Training3
EMTC-3310 Advanced Video Production3
Group 2
EMTC-2601 Interactive Interface Design with Flash3
EMTC-3630 Principles of Computer Animation
EMTC-3765 Animation Practicum1
Distributed Computing Track
CS-4320 Network Security 3
CS-4410 Parallel Computing3
EGCP-4310 Computer Networks
Hardware Track
Choose any three courses:
EGCP-3010 Advanced Digital Logic Design
EGCP3210 Computer Architecture
EGCP-4210 Advanced Computer Architecture
EGCP-4310 Computer Networks
Operations Research Track
MATH-3240 Introduction to Operations Research
MATH-3610 Linear Algebra
MATH-4110 Probability and Statistics II

Computer Science Major (B.S.) Curriculum Summary

Proficiency Requirements	0-6
General Education Requirements	
Computer Science Major Requirements	
Required Cognates	
Electives	
Total (minimum, not including proficiency)	128

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

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

First year: BEGE-1710 Christian Life and Thought	
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 CHEM-1050 Chemistry for Engineers 3 COM-1100 Fundamentals of Speech 3 CS-2210 Data Structures Using Java 3 CS-3210 Programming Language Survey 3 MATH-2510 Discrete Mathematics for Computer Science 3 MATH-3110 Probability and Statistics I 3 PHYS 2110, 2120 General Physics I, II 3 Total	
Third year: BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 CS-3310 Operating Systems 3 CS-3410 Algorithms 3 CS-3510 Compiler Theory and Practice 3 CS-3610 Database Organization and Design 3 CS-4220 Web Applications 3 EGCP-2110 Microprocessors 3 GBIO-1000 Principles of Biology 3.5 HUM-1400 Introduction to the Humanities 3 Literature Elective 3	
Total	

**The optional computer science tracks allow specialization within the degree by focusing the technical elective hours into a designated area and shifting three general education elective hours into the technical electives.

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Engineering and Computer Science School of Natural and Applied Sciences

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

Course requirements involve 70 semester hours including:	
CS-1210 C++ Programming	2
CS-1220 Object Oriented Design with C++	3
CS-2210 Data Structures Using Java	
CS-3310 Operating Systems	3
CS-3410 Algorithms	3
EGCP-1010 Digital Logic Design	
EGCP-2110 Microprocessors	
EGCP-3010 Advanced Digital Logic Design	
EGCP-3210 Computer Architecture	3
EGCP-4210 Advanced Computer Architecture	
*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	
EGGN-4010 Senior Seminar	0
EGME-1810 Engineering Graphics	1
EGME-2510 Statics	
EGME-3170 Thermal Systems	
MATH-2510 Discrete Math: Computer Science	
EGXX/CSXX Technical Electives (3000 or 4000-level)	
EGXX/CSXX Technical Electives (4000-level)	

Required Cognates	27.5
³ CHEM-1050 Chemistry for Engineers	
⁴ 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	
³ Satisfies physical science general education requirements	
⁴ Satisfies mathematics general education requirements	
*Capstone Course	

Computer Engineering Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Comprehensive Computer Engineering Requirements	70
Required Cognates	27.5
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Computer Engineering

First year: BEGE-1710 Christian Life and Thought
Second year:
BEGE-2730 Old Testament Literature
COM-1100 Fundamentals of Speech
CS-2210 Data Structures Using Java
EGEE-2010 Circuits
EGME-2510 Statics
ENG-1400 Composition
MATH-2510 Discrete Math: Computer Science
MATH-2740 Differential Equations
PEF-1990 Physical Activity and the Christian Life
PEP-1990 Physical Activity and the Christian Life
Physical Education Activity Elective
Total
Third year:
BEGE-2740 New Testament Literature
CS-3310 Operating Systems
CS-3410 Algorithms
EGCP-2110 Microprocessors
EGCP-3010 Advanced Digital Logic Design
EGCP-3210 Computer Architecture
EGEE-3110 Linear Systems
EGEE-3210 Electronics 1
HUM-1400 Introduction to Humanities
Literature Elective
Technical Electives
Total
Fourth wear
Fourth year: BEGE-3750 Christian Worldview Development
DEGE 0750 Offisian wondview Development

Fourth year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
EGCP-4210 Advanced Computer Architecture	3
EGCP-4810 Computer Engineering Senior Design I	4
EGCP-4820 Computer Engineering Senior Design II	4
EGGN-4010 Senior Seminar	0
EGME-3170 Thermal Systems	2
GSS-1100 Politics and American Culture	3
Biology Elective	3.5
Computer Engineering Electives	6
History Elective	3
Social Science/Global Awareness Elective	3
Total	35.5

Electrical Engineering

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

urse requirements involve 67 semester hours including.

Course requirements involve 67 semester hours including:
CS-1210 C++ Programming2
EGCP-1010 Digital Logic Design
EGCP-2110 Microprocessors
EGEE-2010 Circuits
EGEE-3110 Linear Systems
EGEE-3210 Electronics I
EGEE-3220 Electronics II5
EGEE-3310 Electromagnetics
EGEE-3330 Communications Theory4
EGEE-4110 Digital Signal Processing2
EGEE-4410 Feedback Control Systems4
*EGEE-4810 Electrical Engineering Senior Design I4
*EGEE-4820 Electrical Engineering Senior Design II4
EGGN-1110 The Engineering Profession1
¹ EGGN-3110 Professional Ethics
EGGN-4010 Senior Seminar0
EGME-1810 Engineering Graphics1
EGME-2510 Statics
EGME-2630 Dynamics
EGME-3170 Thermal Systems2
² Three Technical Electives (must include one
4000-level course)9
Required Cognates
Required Cognates
Required Cognates30.5 ³ CHEM-1050 Chemistry for Engineers3.5 ⁴ MATH-1710 Calculus I5
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5
Required Cognates
Required Cognates
Required Cognates
Required Cognates30.5 ³ CHEM-1050 Chemistry for Engineers3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4
Required Cognates30.5 ³ CHEM-1050 Chemistry for Engineers3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4Select one Mathematics Elective from the following3
Required Cognates.30.5 ³ CHEM-1050 Chemistry for Engineers.3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4Select one Mathematics Elective from the following3EGEE-3370 Probability and Random Processes for
Required Cognates
Required Cognates.30.5 ³ CHEM-1050 Chemistry for Engineers.3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4Select one Mathematics Elective from the following3EGEE-3370 Probability and Random Processes for Engineers3MATH-3610 Linear Algebra3
Required Cognates.30.5 ³ CHEM-1050 Chemistry for Engineers.3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4Select one Mathematics Elective from the following3EGEE-3370 Probability and Random Processes for Engineers3MATH-3610 Linear Algebra3MATH-3740 Complex Variables3
Required Cognates.30.5 ³ CHEM-1050 Chemistry for Engineers.3.5 ⁴ MATH-1710 Calculus I5MATH-1720 Calculus II5MATH-2710 Calculus III3MATH-2740 Differential Equations3PHYS-2110 General Physics I4PHYS-2120 General Physics II4Select one Mathematics Elective from the following3EGEE-3370 Probability and Random Processes for Engineers3MATH-3610 Linear Algebra3MATH-3740 Complex Variables3'Satisfies humanities general education requirements
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3610 Linear Algebra 3 MATH-3740 Complex Variables 3 'Satisfies humanities general education requirements 3 'Technical electives must have EGXX designation at 3000- or higher level
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3610 Linear Algebra 3 MATH-3740 Complex Variables 3 ¹ Satisfies humanities general education requirements ² Technical electives must have EGXX designation at 3000- or higher level ³ Satisfies physical science general education requirements ² Technical science general education requirements
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3740 Complex Variables 3 'Satisfies humanities general education requirements 3 'Technical electives must have EGXX designation at 3000- or higher level 3 'Satisfies physical science general education requirements 3 'Satisfies mathematics general education requirements 4
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3610 Linear Algebra 3 MATH-3740 Complex Variables 3 ¹ Satisfies humanities general education requirements ² Technical electives must have EGXX designation at 3000- or higher level ³ Satisfies physical science general education requirements ² Technical science general education requirements
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3610 Linear Algebra 3 MATH-3740 Complex Variables 3 ¹ Satisfies humanities general education requirements 3 ² Technical electives must have EGXX designation at 3000- or higher level 3 ³ Satisfies physical science general education requirements 4 ⁴ Satisfies mathematics general education requirements 4 ⁴ Satisfies mathematics general education requirements * ⁵ Satisfies mathematics general education requirements * ⁶ Satisfies mathematics general education requirements * ⁶ Satisfies mathematics general education requirements * ⁶ Capstone Course *
Required Cognates 30.5 ³ CHEM-1050 Chemistry for Engineers 3.5 ⁴ MATH-1710 Calculus I 5 MATH-1720 Calculus II 5 MATH-2710 Calculus III 3 MATH-2740 Differential Equations 3 PHYS-2110 General Physics I 4 PHYS-2120 General Physics II 4 Select one Mathematics Elective from the following 3 EGEE-3370 Probability and Random Processes for 3 Engineers 3 MATH-3740 Complex Variables 3 'Satisfies humanities general education requirements 3 'Technical electives must have EGXX designation at 3000- or higher level 3 'Satisfies physical science general education requirements 3 'Satisfies mathematics general education requirements 4

Total (minimum, not including proficiency)	140
Required Cognates	
Comprehensive Electrical Engineering Requirements	67
General Education Requirements	
Proficiency Requirements	

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

Suggested Four-Year Curriculum for a Major in Electrical Engineering

First year:	
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
CHEM-1050 Chemistry for Engineers	
CS-1210 C++ Programming	
EGCP-1010 Digital Logic Design	
EGGN-1110 The Engineering Profession	.1
EGME-1810 Engineering Graphics	
ENG-1400 Composition	
MATH-1710 Calculus I	
MATH-1720 Calculus II PHYS-2110 General Physics I	.5 4
Total). ວ
Second year:	
BEGE-2730 Old Testament Literature	. 3
COM-1100 Fundamentals of Speech	. 3
EGCP-2110 Microprocessors	. 3
EGEE-2010 Circuits	. 5
EGME-2510 Statics	. 3
EGME-2630 Dynamics	. 3
GSS-1100 Politics and American Culture	
MATH-2710 Calculus III	
MATH-2740 Differential Equations	
PEF-1990 Physical Activity and the Christian Life	
PHYS-2120 General Physics II	.4
Physical Education Elective	. 1
	. 1
Physical Education Elective	. 1
Physical Education Elective Total Third year:	. 1 35
Physical Education Elective Total Third year: BEGE-2740 New Testament Literature	.1 35 .3
Physical Education Elective Total Third year:	.1 35 .3 .3
Physical Education Elective Total Third year: BEGE-2740 New Testament Literature EGEE-3110 Linear Systems	.1 35 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .3 .5 .3
Physical Education Elective	.1 35 .3 .3 .3 .5 .3 .4
Physical Education Elective	.1 35 .3 .3 .3 .5 .3 .4 .3
Physical Education Elective	.1 35 .3 .3 .3 .5 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .3 .5 .3 .4 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .5 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .5 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .5 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3 .3 .5 .3 .3 .3 .3 .3 .3 .3 36
Physical Education Elective	.1 35 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3
Physical Education Elective	.1 35 .3.3 .3.3 .3.3 .3.3 .3.3 .3.3 .3.3
Physical Education Elective	.1 35 .3.3.5.3.4 .3.3.3.3.3 .3.3.3.3 .2.2.2 .2.2
Physical Education Elective	.1 35 .33.5 .34.3 .33.3 .33.3 .33 .22.2 .4
Physical Education Elective	.1 35 .33.53.4 .33.33.3 .33 .33 .22.24 .4
Physical Education Elective	.1 35 .33.5.3.4.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.
Physical Education Elective	.1 35 .33.5.3.4.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.

Engineering and Computer Science School of Natural and Applied Sciences

Mechanical Engineering

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

Course requirements involve 70 semester hours including: EGCP-1010 Digital Logic Design
EGEE-3530 Electrical Machines
EGGN-1110 The Engineering Profession
¹ EGGN-3110 Professional Ethics
EGGN-4010 Senior Seminar0
EGME-1810 Engineering Graphics1
EGME-2050 Computational Methods4
EGME-2310 Manufacturing and Finance
EGME-2410 Properties of Engineering Materials4
EGME-2530 Statics and Mechanics of Materials5
EGME-2630 Dynamics
EGME-3010 Mechanical Engineering Lab I2
EGME-3020 Mechanical Engineering Lab II2
EGME-3110 Thermodynamics5 EGME-3150 Heat Transfer
EGME-3150 Heat Marsler
EGME-3210 Fluid Mechanics
EGME-3850 Mechanical Design
EGME-4660 Automatic Controls
*EGME-4810 Mechanical Engineering Senior Design I
*EGME-4820 Mechanical Engineering Senior Design II
Engineering Electives (must include one 4000-level course)6

Required Cognates	. 27.5
² CHEM-1050 Chemistry for Engineers	
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

Total (minimum, not including proficiency)) 140
Required Cognates	
Comprehensive Mechanical Engineering Rec	uirements70
General Education Requirements	
Proficiency Requirements	0-5



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

Suggested Four-Year Curriculum for a **Major in Mechanical Engineering**

First year:	~
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
CHEM-1050 Chemistry for Engineers	
EGCP-1010 Digital Logic Design	
EGGN-1110 The Engineering Profession	
EGME-1810 Engineering Graphics ENG-1400 Composition	
MATH-1710 Calculus I	
MATH-1770 Calculus I	
PEF-1990 Physical Activity and the Christian Life	
PHYS-2110 General Physics I	
Physical Education Elective	
Total	
	Č
Second year:	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	3
COM-1100 Fundamentals of Speech	
EGEE-2050 Circuits and Instrumentation	
EGME-2050 Computational Methods	4
EGME-2530 Statics and Mechanics of Materials	
EGME-2630 Dynamics	
MATH-2710 Calculus III	
MATH-2740 Differential Equations	
PHYS-2120 General Physics II	
Total 3	5
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	
EGME-3150 Heat Transfer	3
EGME-3210 Fluid Mechanics	
EGME-3610 Kinematics and Design of Machines	
EGME-3850 Mechanical Design	
HUM-1400 Introduction to Humanities	3

Fourth year:	
BEGE-3760 Christian Worldview Integration	2
EGEE-3530 Electrical Machines	3
EGGN-4010 Senior Seminar	0
EGME-2310 Manufacturing and Finance	3
EGME-4660 Automatic Controls	3
EGME-4810 Mechanical Engineering Senior Design I	3
EGME-4820 Mechanical Engineering Senior Design II	3
GSS-1100 Politics and American Culture	3
Biology Elective	5
Engineering Elective	6
Literature Elective	3
Social Science/Global Awareness Elective	
Total	5

Minors

Biomedical Engineering Minor

The biomedical engineering minor will help prepare computer, electrical, and mechanical engineering students for careers in the biomedical engineering field, graduate study in biomedical engineering, or medical school. While not required for the emphasis in biomedical engineering, students intending to pursue medical school should have two semesters of general chemistry and organic chemistry, as well as a semester of zoology, cell biology and junior level biochemistry. Course requirements for the biomedical engineering minor involve 13.5-14 semester hours including: (or BIO-1110 Introduction to Biology4) GBIO-2010 Human Anatomy and Physiology4 GBIO-2720 Bioethics and the Human Experience3

Chose one elective from the following	3
EGEE-4610 Medical Imaging	
EGME 4560 Biomechanics and Biomaterials	

Computer Science Minor

The computer science minor allows students to take a	
focused set of courses which will enable them to effectively	
employ programming within their own discipline. Proficiency in	
computer programming is a skill which can be a strong asset in	i i
virtually every discipline. Course requirements for the compute	er
science minor involve 27 semester hours including:	
CS-1210 C++ Programming	2
CS-1220 Object-Oriented Design Using C++	3
CS-2210 Data Structures Using JAVA	3
CS-3410 Algorithms	3
EGCP-1010 Digital Logic Design	
MATH-1710, 1720 Calculus I, II	
Electives chosen from the following	
EGEE-3370 Probability and Random Processes for	
Engineers	3
MATH-3110 Probability and Statistics I	
	-

Special Programs

Cooperative Education Program

The cooperative education program option has been a traditional program option for engineering education for the last 100 years. The co-op program offers students who want to work an opportunity to gain industrial experience as part of their formal education. Co-op is the established program that the industry has developed with academic institutions to provide supervised work experiences for students. Engineering and computer science students who select this option will require an extra year to obtain their B.S. degree; they will receive a certificate stating that they have satisfactorily completed the co-op program option.

Course requirements for the cooperative education program include:

EGGN-3910 Co-Op I	0
(or EGGN-3911 Co-Op IA	0)
(and EGGN- 3912 Co-Op IB	
EGGN-3920 Co-Op II	
(or EGGN-3921 Co-Op IIA	
(and EGGN- 3922 Co-Op IIB	
EGGN-3930 Co-Op III	Ó
(or EGGN-3931 Co-Op IIIA	
and EGGN- 3932 Co-Op IIIB	0)

Engineering Honors Program

The engineering honors program is designed to challenge exceptional students and encourage them to reach their highest possible potential. Because the program is integrated with the University's honors program, students who wish to participate must first be admitted into the honors program; the details are listed in the Interdisciplinary Studies section of the catalog. Admission can occur in either the freshman or sophomore year. Admission to the engineering honors program occurs after the student completes the sophomore year. A cumulative GPA of 3.5 or above is required for participation.

Engineering coursework involves taking the honors version of three courses and one additional engineering elective course. These engineering honors courses are the regularly scheduled courses and are taken with other students, but they have enrichment opportunities and exposure to advanced topics through special assignments and extra sessions with the professor.

Course requirements for the engineering honors program include:

HON-1010 and 1020 Making of the Modern Mind

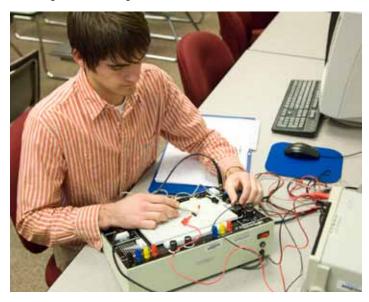
(substitutes for HUM-1400 and HIST elective)10
EGXX-4XXX Additional Engineering Elective

Honors version of the following courses:

Requirements for computer engineering majors include: EGCP-3210 Computer Architecture	3
EGCP-3010 Advanced Digital Logic Design	
EGEE-3210 Electronics I	3
Requirements for electrical engineering majors include: EGEE-3210 Electronics I	
EGEE-3210 Electronics I EGEE-3330 Communications Theory	4
EGEE-3210 Electronics I	4

Requirements for mechanical engineering majors include:	
EGME-3110 Thermodynamics	.5
EGME-3850 Mechanical Design	
EGME-4660 Automatic Controls	

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.



Department of

Exercise and Sport Science

Mission Statement

The Cedarville University Department of Exercise and Sport Science seeks to:

- 1. Equip students for careers in sport-and exercise-related professions.
- 2. Enable students to view knowledge in light of scriptural truth.
- Help students apply and model knowledge to the vocation З. and world in which they work and live.
- 4. Encourage growth in Christian character.

Personal Requirements

Students planning to pursue a major within the department of exercise and sport science are best prepared in high school by taking a college preparatory curriculum. Students planning to pursue a multi-age physical education or sport and exercise studies major should take as many physical education courses as possible. Those considering majors in exercise science allied health and athletic training 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 level of personal physical fitness which demonstrates a commitment to professionalism and biblical stewardship. A semi-annual cardiovascular fitness assessment is used to evaluate the status of the student's fitness.

Multi-age physical education and sport and exercise studies majors have courses in their respective curricula that have motor skill performance proficiencies. While meeting the proficiency standards is not required to receive a passing grade in all classes, satisfactory completion of all of the proficiencies is a degree requirement. See pages 70 and 71 for the department of education admission and retention requirements for multi-age physical education and multi-age health education.

Programs of Study

The department of exercise and sport science offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Athletic Training
- **Exercise Science**
- Physical Education Multi-Age (certification for teaching pre-K to 12)
- Sport and Exercise Studies
- Sport Management
- Bachelor of Science (B.S.) in:
 - Allied Health
 - **Exercise Science** •

Minors

- Coaching
- **Health Promotion**
- Health Education Multi-Age (certification for teaching pre-K • to 12)
- Sport Management
- Sport Ministry

Co-Curricular Opportunities

The department of exercise and sport science has several opportunities for students to increase their professional skills and awareness by being involved in the following Cedarville University approved organizations:

- Athletic training majors Athletic Training Student Organization
- Exercise science majors Health and Fitness Association
- Multi-age physical education and sport and exercise studies majors - Phi Epsilon Omega (Physical Education Organization)
- Sport management majors Sport Management Organization

Career Opportunities

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

- Administrator of youth activities and youth organizations
- Athletic director
- Athletic trainer
- Coach
- Community health opportunities
- Exercise physiologist
- Exercise specialist
- Fitness and recreation management
- Health teacher (pre-K to 12)
- Personal trainer
- Physical education teacher (pre-K to 12)
- Professional athletic team management
- Sport marketing and promotion
- Sport ministry organization management





School of Social Sciences and Human Performance

Faculty

Evan Hellwig, *Chair*. Professor of Athletic Training. Certified athletic trainer (BOC); licensed physical therapist. *Education:* B.S., Mankato State University, 1984; Physical Therapy Certificate, University of Iowa School of Medicine, 1986; Ph.D., University of Virginia, 1992. At Cedarville 1986-89, 1992-present.

Benson Belleman, Assistant Professor of Exercise and Sport Science. Coach, men's soccer. *Education:* B.A., Cedarville University, 1979; M.A., University of Akron, 1990. At Cedarville since 2001.

Jeffrey Bolender, Assistant Professor of Exercise and Sport Science. Coach, men's and women's track and field. *Education:* B.A., Cedarville University, 1991; M.S., Baylor University, 1996. At Cedarville since 2001.

Teresa Clark, Associate Professor of Exercise and Sport Science. *Education:* B.A., Cedarville University, 1975; M.S., Indiana University, 1986. At Cedarville since 1996.

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

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

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

Patrick Estepp, Assistant Professor of Exercise and Sport Science. Coach, men's basketball. *Education:* B.A., Cedarville University, 1998; M.Ed., Cedarville University, 2008. At Cedarville since 2008.

Kathleen Freese, Associate Professor of Exercise and Sport Science. *Education:* B.S., Bowling Green State University, 1971; M.Ed., Bowling Green State University, 1981. At Cedarville since 1991.

Alan Geist, Assistant Professor of Sport Management. Director of Athletics. *Education:* B.A., Cedarville University, 1983; M.S., United States Sports Academy, 1989; Ph.D., The Ohio State University, 2001. At Cedarville since 2005.

Pamela Diehl Johnson, Dean: School of Social Sciences and Human Performance. Senior Professor of Exercise and Sport Science. *Education:* B.S., University of Dayton, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.

Elvin King, Associate Professor of Exercise and Sport Science. Coach, women's cross country; founder, NCCAA National Track Meet; NCCAA Hall of Fame, 1993. *Education:* B.S., Kent State University, 1964; M.Ed., Bowling Green State University, 1967. At Cedarville since 1969.

Kirk Martin, Assistant Professor of Exercise and Sport Science. Coach, women's basketball. *Education:* B.A., Cedarville University, 1976; M.S., University of Dayton, 1981. At Cedarville since 2001. John McGillivray, 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.

Delyte Morris, Adjunct Professor of Exercise and Sport Science. Coach, women's tennis. *Education:* B.S., Geneva College, 1959; M.S., Indiana University, 1960; Ph.D., Indiana University, 1966. At Cedarville since 1998. **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.

Steven Patterson, Assistant Professor of Athletic Training. Certified athletic trainer (BOC). *Education:* B.S., Vanguard University, 1998; M.S., Palm Beach Atlantic University, 2002; all work completed for Ed.D. except dissertation, Nova Southeastern University. At Cedarville since 2008.

Elizabeth Shearer, Instructor of Exercise and Sport Science. *Education:* B.A., Cedarville University, 1980. At Cedarville since 2002

Douglas Walters, Lecturer in Exercise and Sport Science. *Education:* A.A., Southern State Community College, 1994; B.A., Northern Kentucky University, 1997; M.S., University of Dayton, 2002. At Cedarville since 2009.

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

Teaching Staff

Jason Beschta, Instructor of Exercise and Sport Science. *Education:* B.S., Bryan College, 2001; M.S., Baylor University, 2004. At Cedarville since 2008.

Lori Huckaby, Instructor of Exercise Science and Sport Science. *Education:* B.A., Baptist Bible College, 1987; M.Ed., Lynchburg College, 2001. At Cedarville since 2005.

Staff Clinical Instructor

Elisabeth Martin, ATC. *Education:* B.A., Cedarville University, 1996; M.Ed., Cedarville University, 2007. At Cedarville since 2001.



Athletic Training Mission Statement

The Mission of the Cedarville University Athletic Training Education Program (ATEP) is to advance the Kindom 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, diagnosis, and intervention of emergency, acute and chronic medical conditions involving impairment, functional limitations and disabilities.

Students will be able to:

- 1. Provide quality health care including prevention, diagnosis, and intervention to patients and clients who participate in physical activity.
- Utilize therapeutic techniques and equipment safely, appropriately, and effectively.
- 3. Manage an athletic training facility.
- 4. Instruct patients and clients in areas of prevention, stewardship, and convalescence.
- 5. Locate and interpret research.
- 6. Conduct themselves professionally.

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

Personal Requirements

Athletic training requires a significant level of scientific and clinical preparation. Prospective athletic training students are encouraged to take college preparatory courses in high school, including biology, chemistry, physics, and advanced math. An ACT composite score of 24 (or SAT composite of 1100) or 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 athletic program at Cedarville as well as high schools, colleges, and clinics in the community to provide the primary "laboratory" experiences for the clinical education component of the program. Therefore, attempting to participate in varsity athletics while simultaneously pursuing the athletic training major may prove to be a significant conflict of interest.

Students are, however, expected to model appropriate stewardship of their physical bodies by being involved in a consistent program of regular exercise and activity. A biannual one and a half-mile run is used to evaluate the status of the student's fitness.

Program Requirements Admission and Retention

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

- 1. Cumulative grade point average of 2.5 or better
- 2. Completion of college-level biology and chemistry courses with a grade of "C-" or better
- 3. Completion of college-level first aid and basic athletic training courses with a grade of "B-" or better
- 4. Completion of at least 150 clinical hours in the Cedarville University Athletic Training Facility
- 5. Satisfactory physical exam
- 6. Hepatitis B vaccine or signed declination
- 7. Signed acceptance of technical standards, available at www.cedarville.edu/athletictraining
- 8. Current certification in cardiopulmonary resuscitation (CPR) including AED
- Retention criteria include:
- 1. Earning a grade of "C-" or better in all athletic training courses
- 2. Maintaining a cumulative grade point average of 2.25
- 3. Maintaining current CPR/AED certification
- 4. Successfully completing clinical proficiencies established for each term
- 5. Positive recommendation by the faculty/clinical instructors of the ATEP

Graduation requirements include:

- 1. Earning a grade of "C-" or better in all athletic training courses
- 2. Member of the NATA
- 3. Successful completion of all clinical proficiencies
- 4. Meeting University requirements for graduation

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

Athletic Training

Clinical Requirements

The clinical experience is an integral part of the ATEP. Accreditation standards require that the clinical education component of the curriculum be at least two full years in duration. Athletic Training majors need to be routinely available during typical practice and game times in order to fulfill the clinical education requirements. Freshmen will need to accumulate at least 150 hours of observational time in the athletic training facility in order to be eligible for admission into the ATEP. Sophomores will be scheduled to work (approximately 8-10 hours per week) with one of the on-campus Certified Athletic Trainers to expose them to collegiate athletic training services. The junior and senior years are devoted to completing extensive clinical assignments, including working under the supervision of a certified athletic trainer with a lower extremity sport, an upper extremity sport, an equipment intensive sport such as football, and a general medical clinical education rotation. Upperclassmen can anticipate working 12-20 hours per week. Students majoring in athletic training are not encouraged to participate in intercollegiate athletics.

Course Requirements involve 76.5 semester hours including:
ATRN-1550 Basic Athletic Training5
ATRN-2560 Lower Body Injury Management5
ATRN-2570 Upper Body Injury Management
ATRN-2650 Therapeutic Exercise for Athletic Injuries
ATRN-2900 Sports Medicine Clinic
ATRN-3550 Organization and Administration in Athletic
Training2
ATRN-3660 Therapeutic Modalities5
ATRN-3920 Supervised Experience in Athletic Training
– Upper Body3
ATRN-3930 Supervised Experience in Athletic
Training – Lower Body
ATRN-4560 Medical Aspects of Athletic Training
ATRN-4610 Issues in Athletic Training1
ATRN-4910 Supervised Experience in Athletic
Training – Athletic Training Facilities
*ATRN-4940 Supervised Experience in Athletic
Training – Collision Sports
GBIO-1000 Principles of Biology
GBIO-2010 Human Anatomy and Physiology4
CHEM-1000 Principles of Chemistry
ESS-1400 First Aid and Safety Education
ESS-3800 Sport Psychology
ESS-3900 Physiology of Exercise
ESS-3920 Biomechanics2
ESS-4600 Research in Athletic Training and Exercise Science2
MAHE-1000 Introduction to the Health Profession1
MAHE-3030 Nutrition for Health and Weight Control2
MAHE-3100 Drug Education3
MAHE-3500 Community Health Concepts2
PYCH-1600 General Psychology
*Capstone Course

Athletic Training Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Athletic Training Major Requirements	
Electives	
Total (minimum, not including proficiency).	

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

This Suggested Four-Year Curriculum Major in Athletic Training

5
3
3
5
3
2
3.5
3
1
1
3
32.5

Summer:

ATRN-2900 Sports Medicine Clinic0

Second year:
ATRN-2560 Lower Body Injury Management
ATRN-2570 Upper Body Injury Management
ATRN-2650 Therapeutic Exercise for Athletic Injuries
BEGE-2730 Old Testament Literature
COM-1100 Fundamentals of Speech
ESS-3900 Physiology of Exercise
GBIO-2010 Human Anatomy and Physiology
MAHE-3030 Nutrition for Health and Weight Control
Physical Education Activity Elective
Electives
Total
Third year:
ATRN-3550 Organization and Administration in Athletic Training2
ATRN-3660 Therapeutic Modalities
ATRN-3920 Supervised Experience in Athletic Training – Upper Body 3
ATRN-3930 Supervised Experience in Athletic Training – Lower Body 3
BEGE-2740 New Testament Literature
ESS-4600 Research in Athletic Training and Exercise Science2
GSS-1100 Politics and American Culture
HUM-1400 Introduction to the Humanities
MAHE-3100 Drug Education
MAHE-3500 Community Health Concepts 2
Literature Elective
Total
Fourth year:
ATRN-4560 Medical Aspects of Athletic Training
ATRN-4610 Issues in Athletic Training
ATRN-4010 Supervised Experience in Athletic Training – ATE 3

Fourth year:	
ATRN-4560 Medical Aspects of Athletic Training	. 3
ATRN-4610 Issues in Athletic Training	. 1
ATRN-4910 Supervised Experience in Athletic Training – ATF	. 3
ATRN-4940 Supervised Exp in Athletic Training - Collision Sports .	. 4
BEGE-3750 Christian Worldview Development	. 2
BEGE-3760 Christian Worldview Integration	. 2
ESS-3800 Sport Psychology	. 2
ESS-3920 Biomechanics	. 2
History Elective	. 3
Humanities/Global Awareness Elective	
Electives	. 7
Total	32



Allied Health

The Bachelor of Science degree with a major in allied health is an interdisciplinary program designed to prepare students for admission into graduate level allied health care provider programs including physical therapy, physicians assistant, and occupational therapy. The allied health major is not necessarily designed to prepare students for the medical profession. Students seeking admission to medical school should consider majoring in the premed program offered in the department of science and mathematics.

Course Requirements involve 82-88 semester hours:

ALHL-4950 Allied Health Seminar I	2
*ALHL-4960 Allied Health Seminar II	1
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	
BIO-2210 Microbiology	
CHEM-1000 Principles of Chemistry	5
CHEM-1110 General Chemistry I	4
CHEM-1120 General Chemistry II	4
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	
ESS-3940 Structural Kinesiology	
EXSC-4600 Research in Exercise Science	3
GBIO-2010 Human Anatomy and Physiology	4
GBIO-2020 Advanced Clinical Physiology	4
GMATH-1030 Precalculus	4
MAHE-1000 Introduction to the Health Profession	1
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3070 Current Issues in Health	1
PYCH-1600 General Psychology	3
PYCH-2600 Human Development and Lifespan	3
PYCH-2610 Statistics	3
PYCH-2640 Abnormal Psychology	
PYCH-3380 Health Psychology	3
PYCH-3720 Psych of Personality	3
One of the following sets9	-15
(Set A)	
ATRN-3660 Therapeutic Modalities5	
PHYS-1010 College Physics I5	
PHYS-1020 College Physics II5	;
or (Set B)	
CHEM-3510 Organic Chemistry I5	
CHEM-3710 Biochemistry4	ł
*On a star a Course	

Capstone Course

Allied Health Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Allied Health Major Requirements	82-88
Electives	
Total (minimum, not including proficiency)	

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

This Suggested Four-Year Curriculum **Major in Allied Health**

First year:	
BEGE-1710 Christian Life and Thought	. 3
BEGE-1720 Spiritual Formation	
BIO-1110 Introduction to Biology	. 4
BIO-1120 General Zoology	
CHEM-1000 Principles of Chemistry	
ENG-1400 Composition	
GMTH-1030 Precalculus	. 4
MAHE-1000 Introduction to the Health Profession	. 1
PEF-1990 Physical Activity and the Christian Life	. 1
PYCH-1600 General Psychology	. 3
Physical Education Activity Elective	
Total	

Second year

Third year:

initia jouri	
BEGE-2740 New Testament Literature	3
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	2
ESS-3940 Structural Kinesiology	3
EXSC-4600 Research in Exercise Science	3
GBIO-2020 Advanced Clinical Physiology	4
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3070 Current Issues in Health	1
PYCH-3380 Health Psychology	3
History Elective	3
Literature Elective	3
Total	30

Fourth year:	
ALHL-4950 Allied Health Seminar I	2
ALHL-4960 Allied Health Seminar II	1
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
PYCH-2610 Statistics	
PYCH-2640 Abnormal Psychology	
PYCH-3720 Psych of Personality	
Global Awareness Elective	
Set A or Set B Allied Health	
Electives	4-10
Total	35

Exercise Science - Bachelor of Arts

The Bachelor of Arts degree with a major in exercise science prepares students for careers in exercise physiology, cardiac rehabilitation, biomechanics, personal fitness services, or as an exercise specialist in corporate or private fitness centers and sports medicine clinics.

Required Cognate	3.5
GSCI-1020 Principles of Physical Science	3.5

Exercise Science Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	43-51
Exercise Science B.A. Major Requirements	64-67
Electives	10-21
Total (minimum, not including proficiency)	



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

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

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
ESS-1350 Foundations of Exercise and Sport Science	2
ESS-1400 First Aid and Safety Education	2
ESS-1550 Athletic Training Essentials	2
GBIO-1000 Principles of Biology	
GMTH-1020 College Algebra	
GSCI-1020 Principles of Physical Science	
MAHE-1000 Introduction to the Health Profession	1
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	
Total	

Summer: F

EXSC-2000 Worksite Observation)

Second year:

Second year.	
BEGE-2730 Old Testament Literature	. 3
BEGE-2740 New Testament Literature	. 3
ESS-2380 Motor Learning and Development	. 3
ESS-3890 Human Anatomy and Physiology for the Physical Educato	r5
ESS-3900 Physiology of Exercise	. 3
GSS-1100 Politics and American Culture	. 3
HUM-1400 Introduction to the Humanities	. 3
Literature Elective	. 3
Social Science/Global Awareness Elective	. 3
Electives	. 4
Total	33

Third year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ESS-3800 Sport Psychology	2
ESS-3920 Biomechanics	2
ESS-3940 Structural Kinesiology	3
EXSC-4600 Research in Exercise Science	
EXSC-3020 Community Exercise Science Practicum	1
EXSC-3180 Legal Issues in the Sport Industry	3
EXSC-3860 Basic Exercise Testing	3
EXSC-3870 Basic Exercise Prescription	3
MAHE-3030 Nutrition for Health and Weight Control	2
MAHE-3100 Drug Education	
History Elective	3
Electives	3
Total	. 35

Fourth year:

ESS-4900 Physical Education Senior Seminar (fall semester)	1
EXSC-3010 Campus Exercise Science Practicum	
EXSC-4810 Organization and Administration of Exercise Science	
EXSC-4880 Exercise Testing and Prescription for Special Populations	33
EXSC-4990 Internship in Exercise Science	12
Humanities Elective	3
Electives	-9
Total	29

Exercise Science - Bachelor of Science

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

Exercise Science Major Curriculum Summary

Proficiency Requirements	0-5
**General Education Requirements	
Exercise Science B.S. Major Requirements	71.5-74.5
Electives	
Total (minimum, not including proficiency)	128
**Must include a minimum of 16 semester hours in Science and Math	omatics

clude a minimum of 16 semester hours in Science and Mathematics

Students preparing for physical therapy school should select the following course options, substitutions, and additions to the Bachelor of Science in exercise science curriculum. GBIO-2010 Human Anatomy and Physiology4

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GMTH 1030 Precalculus	4
(instead of GMTH 1020 College Algebra	3)
CHEM 1110 General Chemistry I	
and CHEM 1120 General Chemistry II	
(instead of CHEM 1010 Principles of Chemistry	5)
BIO 1110 Introduction to Biology	4
(instead of BIO 1000 Principles of Biology	3.5)
BIO 2020 Advanced Clinical Physiology	4
BIO 1120 General Zoology	4
PHYS 1010 College Physics I	
and PHYS 1020 College Physics II	5
PYCH 1600 General Psychology	3
PYCH 2600 Human Development: Life Span	

PYCH 2610 Statistics	
PYCH 2640 Abnormal Psychology3	,

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

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

First year:
BEGE-1710 Christian Life and Thought
BEGE-1720 Spiritual Formation
COM-1100 Fundamentals of Speech
CHEM-1000 Principles of Chemistry
ENG-1400 Composition
ESS-1350 Foundations of Exercise and Sport Science
ESS-1400 First Aid and Safety Education2
ESS-1550 Athletic Training Essentials2
GBIO-1000 Principles of Biology
MAHE-1000 Introduction to the Health Profession1
PEF-1990 Physical Activity and the Christian Life1
Physical Education Activity Elective1
Science/Math Elective
Total 32.5
Summer:
EXSC-2000 Worksite Observation
Second year:
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
ESS-2380 Motor Learning and Development
ESS-3900 Physiology of Exercise
GBIO-2010 Human Anatomy and Physiology 4
GMTH-1020 College Algebra
GSS-1100 Politics and American Culture
HUM-1400 Introduction to the Humanities
Literature Elective
Social Science/Global Awareness Elective
Total
-
Third year:
BEGE-3750 Christian Worldview Development
BEGE-3760 Christian Worldview Integration
ESS-3800 Sport Psychology
ESS-3920 Biomechanics
ESS-3940 Structural Kinesiology
EXSC-3010 Campus Exercise Science Practicum
EXSC-3180 Legal Issues in the Sport Industry
EXSC-3860 Basic Exercise Testing
EXSC-3870 Basic Exercise Prescription
EXSC-4600 Research in Exercise Science
MAHE-3030 Nutrition for Health and Weight Control
MAHE-3100 Drug Education
Humanities Elective 3

Fourth year:

ESS-4900 Physical Education Senior Seminar (fall semeste	r)1
EXSC-3020 Community Exercise Science Practicum	1
EXSC-4810 Organization and Administration of Exercise Sci	ence 3
EXSC-4880 Exercise Testing and Prescription for Special Pop	oulations3
EXSC-4990 Internship in Exercise Science	9-12
History Elective	3
***Electives	
Total	32.5

Total 32

***May need to include science elective hours to fulfill 16 semester hours of science and mathematics to fulfill general education requirements for B.S. degree.

Sport and Exercise Studies

The sport and exercise studies major prepares students for a career in entry-level positions in YMCAs, sport ministry organizations, social service agencies, recreation centers, college and university intramural or athletic departments, or other possibilities within the sport industry. This program can be used as preparation for graduate school in such areas as sport psychology, recreational therapy, ergonomics, motor learning and development, etc. A minor selected with department chair approval is also part of the requirements for this major.

Course requirements involve 39-47 semester hours including: Sport and Exercise Studies Core Requirements 39-47 ESS-1350 Foundations of Exercise and Sport Science 2 ESS-1400 First Aid and Safety Education 2 ESS-2380 Motor Learning and Development 3 ESS-3890 Human Anatomy and Physiology for the 5 MAPE-1210 Team Sports 2 MAPE-2200 Individual and Dual Sports I 2 MAPE-2210 Individual and Dual Sports I 2 Three Physical Education courses selected from 3 PEAE-XXXX Activity Elective 1 PEAI-XXXX Individual Sport Elective 1 PEAE-XXXX Activity Elective 1 PEAF-XXXX Tumbling, Apparatus or Swimming 1 PEAF-XXXX Tumbling, Apparatus or Swimming 1 PEAF-XXXX Team Sport Elective 1 PEAS-1720 Swimming II – Intermediate:Coed 1 PEAS-1740 Lifeguarding Today:Coed 2 PEAS-1740 Lifeguarding Today:Coed 2 PEAS-1740 Lifeguarding Today:Coed 2 PEAS-1740 Lifeguarding Today:Coed 2 PEAS-1740 Lifeguarding Today:Coed 1 PEAS-1740 Lifeguarding Today:Coed 2
Exercise Studies

Sport and Exercise Studies Major Curriculum Summary

Total (minimum, not including proficiency)) 128
Electives	25-42
Sport and Exercise Studies Requirements	
General Education Requirements	50-55
Proficiency Requirements	0-5

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

Suggested Four-Year Curriculum for a Major in Sport and Exercise Studies

First year:	
BEGE-1710 Christian Life and Thought	. 3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
ESS-1350 Foundations of Exercise and Sport Science	
ESS-1400 First Aid and Safety Education	. 2
GBIO-1000 Principles of Biology	
HUM-1400 Introduction to the Humanities	
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	
Total	2.5

Second year

Second year.	
BEGE-2730 Old Testament Literature	
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	
PEAR-XXXX or PEAS-11XX or PEAT-XXXX Elective	1
PEAS-Swimming Elective	1-2
History Elective	3
Literature Elective	
Minor Electives	3
Social Science/Global Awareness Elective	3
Physical Science Elective	3.5
Total	
Third year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ESS-3800 Human Anatomy and Physiology for the Physica	Educator5

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ESS-3890 Human Anatomy and Physiology for the Physical Ec	ducator5
GSS-1100 Politics and American Culture	3
PEAE-XXXX or PEAI-XXXX or PEAL-XXXX Elective	1
PEAR-XXXX or PEAS-XXXX or PEAT-XXXX Elective	1
3000- or 4000- Level ESS courses	5-7
Minor Electives	5
Humanities Elective	
Electives	1-3
Total	32
Fourth year:	
SES-4990 Internship or SES-4995 Senior Research Project	3-6
3000- or 4000- Level ESS courses	5-7
Minor Electives	5
Electives	14-18

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 62 semester hours including:
Sport Management requirements55
ACCT-2110 Principles of Accounting I 3
BUS-2100 Business Communication
ECON-2110 Essentials of Economics
ESS-2100 Leadership and Ethics in Sport
MGMT-3500 Principles of Organization and Management 3
MRKT-3600 Principles of Marketing3
SMGT-1350 Introduction to Sport Management
SMGT-2100 Sport in Society
SMGT-2500 Organizational Behavior in Sport
SMGT-2910 Campus Sport Management Practicum 1
SMGT-2920 Recreation Management Practicum 1
SMGT-3180 Legal Issues in the Sport Industry
SMGT-3200 Facility Design and Management
SMGT-3300 Event Planning and Production
SMGT-4100 Marketing and Promotions in the Sport Industry 4
SMGT-4200 Financing Sport Operations
SMGT-4910 Athletic Administration Practicum 1
*SMGT-4990 Internship in Sport Management9
Electives selected from the following7
ESS-3800 Sport Psychology2
ESSE-2830 Recreational Leadership2
MIS-1500 Information Technology for Business
MIS-1510 Software Tools for Business2
SMGT-3880 Special Topics: Issues in Intercollegiate
Athletics2
SMGT-4990 Additional Internship hours 1-3
*Capstone Course

Capstone Course

Sport Management Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Sport Management Major Requirements	62
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a **Major in Sport Management**

First year:

BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GBIO-1000 Principles of Biology	.5
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and the Christian Life	1
SMGT-1350 Introduction to Sport Management	
History Elective	
Physical Education Activity Elective	
Quantitative Elective	3
Sport Management Elective	
Total	
Second year:	
ACCT-2110 Principles of Accounting I	
ACCT-2110 Principles of Accounting I	3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature	3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature	3 3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics	3 3 3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport	3 3 3 3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society	3 3 3 3 3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society SMGT-2500 Org Behavior in Sport.	3 3 3 3 3 3 3 3 3 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society SMGT-2500 Org Behavior in Sport SMGT-2910 Campus Sport Management Practicum	3 3 3 3 3 3 3 1
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society SMGT-2500 Org Behavior in Sport SMGT-2910 Campus Sport Management Practicum SMGT-2920 Recreation Management Practicum	3 3 3 3 3 3 1 1
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society SMGT-2500 Org Behavior in Sport SMGT-2910 Campus Sport Management Practicum SMGT-2920 Recreation Management Practicum Literature Elective	3 3 3 3 3 3 1 1 3
ACCT-2110 Principles of Accounting I BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BUS-2100 Business Communication ECON-2110 Essentials in Economics ESS-2100 Leadership and Ethics in Sport SMGT-2100 Sport in Society SMGT-2500 Org Behavior in Sport SMGT-2910 Campus Sport Management Practicum SMGT-2920 Recreation Management Practicum	3 3 3 3 3 3 3 1 1 3 5

Third vear:

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BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GSS-1100 Politics and American Culture	
MGMT-3500 Principles of Organization and Management	
MRKT-3600 Principles of Marketing	
SMGT-3180 Legal Issues in the Sport Industry	
SMGT-3200 Facility Design and Management	
SMGT-3300 Event Planning and Production	
Humanities Elective	
Social Science/Global Awareness Elective	
Sport Management Electives	
Electives	
Total	34
Fourth year:	
CNOT 4100 Marketing and Dramatic so in the Oracut Inductory	4

uru	r year.		
/GT	-4100	Ma	rketir

SMGT-4100 Marketing and Promotions in the Sport Industry	
SMGT-4200 Financing Sport Operations	
SMGT-4910 Athletic Administration Practicum	1
SMGT-4990 Internship in Sport Management	9-12
Electives	
Total	

Teacher Education Licensure Program – **Physical Education – Multi-Age**

The multi-age physical education major prepares students to teach physical education in grades pre-K to 12 in public and Christian schools. Students who complete this curriculum will be licensed by the State of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the department of education section of this catalog (page 70).

Course requirements involve 81 semester hours including:

oburse requirements involve or semester nours including.
Physical Education40
ESS-1350 Foundations of Exercise and Sport Science
ESS-1400 First Aid and Safety Education2
ESS-2380 Motor Learning and Development
ESS-3890 Human Anatomy and Physiology for the
Physical Educator5
ESS-3900 Physiology of Exercise
ESS-3920 Biomechanics2
GMTH-1020 College Algebra3
MAHE-3130 School Health Program3
MAPE-1210 Team Sports2
MAPE-2200 Individual and Dual Sports I
MAPE-2210 Individual and Dual Sports II2
MAPE-4500 Curriculum Development in Physical Education 3
PEAL-XXXX Outdoor Leisure Elective1
PEAR-2100 Rhythmics1
PEAS-1120 Tumbling 1
PEAS-1130/1140 Apparatus 1
PEAS-17XX Swimming Elective1
PEF-1990 Physical Activity and the Christian Life 1
Exercise and Sport Science Electives
Professional Education41
EDSP-2000 Teaching Children with Exceptionalities2
EDSP-2050 Special Education Field Experience1
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian Schools0
EDUC-2000 Introduction to Teaching2
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience 1
EDUC-2500 Educational Psychology 3
EDUC-4000 Reading in the Content Area: Multi-Age
EDUC-4500 Philosophy of Education2
*EDUC-4900 Student Teaching and Seminar: Multi-Age 10
MAPE-3600 Physical Education in the Elementary School 5
MAPE-4950 Methods of Teaching Secondary Physical
Education3
MAPE-4960 Field Experience4
MAPE-4970 Field Experience (Special Populations)2
*Capstone Course

Physical Education Multi-Age Major Curriculum Summary

General Education Requirements Physical Education Multi-Age Major Requirements	
Total (minimum, not including proficiency)	

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

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

First year:	2
BEGE-1710 Christian Life and Thought BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession	
EDUC-1050 Contemporary Christian Schools	
ENG-1400 Composition	
ESS-1350 Foundations of Exercise and Sport Science	
ESS-1400 First Aid and Safety Education	
GBIO-1000 Principles of Biology	.5
GMTH-1020 College Algebra	
HUM-1400 Introduction to the Humanities	. 3
MAPE-1210 Team Sports	. 2
PEAS-1120 Tumbling	
PEAS-1130/1140 Apparatus	1
PEAS-17XX Swimming Elective	1
PEF-1990 Physical Activity and the Christian Life	. 1
Total 32	.5

Second vear:

BEGE-2730 Old Testament Literature 3	(
BEGE-2740 New Testament Literature	j.
EDSP-2000 Teaching Children with Exceptionalities	
EDSP-2050 Special Education Field Experience 1	
EDUC-2000 Introduction to Teaching	1
EDUC-2100 Technology in the Classroom	1
EDUC-2200 Multicultural Field Experience 1	
EDUC-2500 Educational Psychology	j.
ESS-2380 Motor Learning and Development	j
MAPE-2200 Individual and Dual Sports I 2	1
MAPE-2210 Individual and Dual Sports II 2	1
PEAR-2100 Rhythmics1	
Physical Science Elective	j.
History Elective	j.
Literature Elective	j.
Total	

Third vear:

BEGÉ-3750 Christian Worldview Development	2
ESS-3890 Human Anatomy and Physiology for the Physical Educa	tor 5
ESS-3900 Physiology of Exercise	3
ESS-3920 Biomechanics	
GSS-1100 Politics and American Culture	
MAHE-3130 School Health Program	3
MAPE-3600 Physical Education in Elementary School	
PEAL-XXXX Outdoor Leisure Activity	1
Social Science/Global Awareness Elective	3
Total	27
Summer	

summer

Fourth year:	
BEGE-3760 Christian Worldview Integration	2
EDUC-4500 Philosophy of Education	
EDUC-4900 Student Teaching and Seminar: Multi-Age	. 10-12
MAPE-4500 Curriculum Development in Physical Education	
MAPE-4950 Methods of Teaching Secondary Physical Educati	
MAPE-4960 Field Experience	4
MAPE-4970 Field Experience (Special Populations)	
Exercise and Sport Science Electives	
Humanities Elective	
Total	

School of Social Sciences and Human Performance

Minors

Coaching Minor

The **coaching minor** prepares students to work as coaches in organized athletic programs at any level. Although formal education is not currently required of coaches, this particular program combines theoretical, scientific, and practical components to provide students with the knowledge and the skills they will need to succeed in this competitive yet rewarding area of service. The course requirements of the coaching minor make it a suitable complement to any major field of study offered by the University.

Course requirements for a minor in coaching involve 18 semester hours including:

CCHG-3670 Fundamentals of Coaching	3
CCHG-3680 Scientific Basis of Coaching	2
Select one course from CCHG-3700 through CCHG-3760	
Coaching	2
CCHG-4950 Internship in Coaching	3
ESS-1400 First Aid and Safety Education	2
ESS-1550 Athletic Training Essentials	2
ESS-3800 Sport Psychology	
ESS-3920 Biomechanics	

Health Promotion Minor

The **health promotion minor** is a non-certificate area for those students not seeking K-12 teaching certification in health education. It is designed to prepare students for health promotion employment opportunities in educational, community, health agency, sport, and leisure settings. It complements the coursework in physical education, athletic training, business, exercise science, sport and exercise studies, or psychology.

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	3
MAHE-4990 Health Promotion Internship	. 3
PYCH-1600 General Psychology	. 3
SOC-3710 Family and Society	. 3

Multi-age Health Education Minor

The **multi-age health education minor** prepares students to teach health in Christian or public schools in grades pre-K to 12. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the department of education section of this catalog (page 70). 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 Education	28
ESS-1400 First Aid and Safety Education	-
ESS-3890 Human Anatomy and Physiology for the	
Physical Educator	5
MAHE-1000 Introduction to the Health Profession	

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-2735 Child-Adolescent Development	
Professional Education	36
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	
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	
EDUC-4000 Reading in the Content Area: Multi-Age	
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	
MAHE-4960 Field Experience in Health	4

Sport Management Minor

The purpose of the sport management minor is to allow students from other majors the opportunity to develop a foundation which will serve as the basis for a future career in sport such as high school athletic director or baseball announcer.

Course requirements for a minor in sport management involve 19 semester hours includina:

ESS-2100 Leadership and Ethics in Sport	3
SMGT 1350 Introduction to Sport Management	3
SMGT-3300 Event Planning and Production	3
SMGT-4100 Marketing and Promotions in the Sport Industry	4
Two courses selected from the following	6
SMGT-2100 Sport in Society	. 3
SMGT-2500 Organizational Behavior in Sport	. 3
SMGT-3180 Legal Issues in the Sport Industry	
SMGT-3200 Facility Design and Management	. 3
SMGT-4200 Financing Sport Operations	

Sport Ministry Minor

The purpose of the **sport ministry minor** is to assist the student who is preparing for a variety of ministries through the medium of sport. This minor is a good complement to many majors including sport and exercise studies, sport management, world missions, and youth ministries.

Course requirements for a minor in sport ministry involve 20-22 semester hours includina:

BEPT-2400 Personal Evangelism	3
BEPT-3410 Discipleship	3
CCHG-3670 Fundamentals of Coaching	3
ESS-1400 First Aid and Safety Education	2
ESSE-1350 Foundations of Sport Ministries	3
ESSE-2830 Recreational Leadership	2
Two courses selected from the following	4-6
ESSE-2100 Wilderness Ministry	3
ESSE-2810 Introduction to Camping	2
MAPE-1210 Team Sports	2
MAPE-2200 Individual and Dual Sports I	2
(BEPH-2260 Religion and Culture recommended general	
(BEFTI-2200 Religion and Culture recommended general	
education humanities/global awareness elective.)	

Department of

History and Government

Mission Statement

The goal of the Cedarville University Department of History and Government is to develop ethical, intellectually prepared, and articulate graduates who can refine and integrate an evangelical Christian worldview in their specific disciplines from a reasoned political, economic, and historical perspective, and who can then serve effectively in a diverse global community.

Department Objectives

- History and Government students will evidence knowledge 1. of the basic components of their respective academic disciplines.
- History and Government students will participate in 2. graduate study and/or practice as professionals in public and private professions.
- History and Government students will demonstrate З. competence in the methods and tools of original quantitative and qualitative research and the ability to formulate and express the results.
- History and Government students will exhibit critical 4. analysis in evaluating historical and/or contemporary issues.
- History and Government students will display the ability 5. to integrate biblical truth with their academic disciplines through the investigation and study of society.

Personal Requirements

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

Department Requirements

To graduate with a degree from the department of history and government, students must earn a cumulative average of 2.0 or above and a "C-" or above in all courses required by their selected major. In addition, all majors must complete the following:*

- 1. Complete senior research project under the direction of a faculty advisor. This research project will also be directed by a three-member committee that shall be selected with the advice of their research director and will include at least one professional member outside the department of history and government.
- A presentation of selective senior research projects 2. presented to invited faculty, students, and guests.
- Complete the Major Fields Test (ETS) in their area at the З. scheduled time during spring semester of their senior year (as appropriate).





Technical Resources

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

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

Several of the department programs prepare students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives and on occasion be exposed to the technologies being utilized by a career area

Programs of Study

The department of history and government offers the following programs of study:

Bachelor of Arts (B.A.) in:

- American Studies
- History
- History and Political Science
- International Studies Social Science
- **Political Science**
- Prelaw
- **Public Administration**
- Social Studies Education Integrated
- Minors
- History
- International Studies
- **Political Science**
- Public Administration

School of Humanities

Co-Curricular Opportunities

Each major has several professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

CU Republican Club

CU Republican Club is an organization dedicated to the development of Christian leaders in the political arena. **History and Government Student Organization**

The History and Government Student Organization is a student organization that provides opportunities for students to grow in their appreciation of the fields of history and government and provide an outlet for pursuing knowledge, obtaining academic support, gaining fellowship, and providing service.

Model United Nations Team

Model United Nations Team is a simulation of the United Nations system. Students assume the roles of ambassadors to the United Nations and negotiate current global issues. The Cedarville University Model UN Team participates in an intercollegiate competition in which participants seek to deal with complex global concerns such as the environment, economic development, refugees, AIDS, disarmament, and human rights. As representatives of UN member nations, team members must master a great deal of detailed information about national policies while remaining in character – responding to debates and negotiations in the same manner as a UN delegate from that nation.

Omega Mu

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

Renaissance Guild

Renaissance Guild increases learning and awareness of the medieval and Renaissance eras and provides fellowship with likeminded individuals.

Center for Political Studies

The Center for Political Studies at Cedarville University was founded to articulate a biblical view of government through the study of politics, law, history, and public policy; to educate Cedarville University faculty, staff, students, and constituents; and to engage and influence American political culture. The Center sponsors, among other programs, regular lecture series and an annual roundtable discussion of contemporary political issues.

Career Opportunities

Graduates of the department have attended some of the nation's outstanding graduate and professional schools. Careers pursued by graduates include:

- Administrator
- Archaeologist
- Archivist
- Attorney
- Community developer
- Diplomat
 - Government worker
 - Historical researcher
 - Politician
 - Public administrator

Faculty

Thomas Mach, Chair 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.
Marc Clauson, 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.
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.
Jewerl Maxwell. Assistant Professor of Political Science. Education: B.A., Muskingum College, 2003; M.S., Miami University, 2004; Ph.D., Miami University, 2008. At Cedarville since 2009.

Murray Murdoch, Senior 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. **David Rich**, Associate Professor of Public Administration and Political Science. *Education:* B.A., Cedarville University, 1983; M.P.A., University of Dayton, 1988; D.P.A., Western Michigan University, 2006. At Cedarville since 2000.

Kevin Sims, Professor of Political Science. *Education:* B.A., Cedarville University, 1974; M.A., University of Northern Iowa, 1978; Ph.D., The Claremont Graduate School, 1991. At Cedarville since 1990.

Mark Smith, Assistant Professor of Political Science, Director, Center for Political Studies. *Education:* B.A., Bryan College, 1992; M.A., Trinity International University, 1995; M.A., University of Georgia, 1997; Ph.D., University of Georgia, 2001. At Cedarville since 2004.

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.



American Studies

The American studies major provides an understanding of the American culture within the context of a Christian worldview. The American studies advisor will assist the student in selecting 18 hours from two discipline areas reflecting the student's interest. The discipline areas include biblical education, business administration, communication arts, history, language and literature, music, psychology, and social sciences.

Course requirements	involve 4	45 semester	hours	including:
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American Studies Core	27
GEO-3510 World Regional Geography - Western	3
HIST-1110,1120 United States History I and II	6
HIST-3110 Early American History	3
(or HIST-3120 History of Recent and Cont. Amer	3)
HIST-3720 History Political Thought II: Modern/Contemporar	уЗ
*HIST-4700 Research in American History	3
LIT-3510 Modern American Literature	3
POLS-2100 American Political Institutions	3
POLS-3650 International Relations	3
(or HIST-4050 Issues in International Diplomacy	3)

Select 18 credits from two of the following discipline

areas1	18	3
--------	----	---

Biblical Education

BEPH-2200 Introduction to Philosophy	3
BEPH-2260 Religion and Culture	3
BEPH-3320 History of Modern Philosophy	
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	
MRKT-3600 Principles of Marketing	3
MRKT-3660 Promotion Strategy	
Communication Arts	

COM-2320 Theories of Mass Media	З
EMTC-1110 Introduction to Electronic Media	З
EMTC-4110 Electronic Media Law and Regulation	3

Language and Literature

ENG-2210 Principles of Journalism	. 3
ENG-2230 Advanced Composition	. 3
ENG-3220 Advanced Journalism	
LIT-3190 19th Century American Literature	
LIT-3420 American Novel	. 3

Psychology

PYCH-1600 General Psychology	. 3
PYCH-3690 Social Psychology	. 3

Public Service and History and Government

All courses that stress an American context. *Capstone Course

American Studies Major Curriculum Summary

Proficiency Requirements	
Other General Education Requirements	
American Studies Major Requirements	45
Electives	
Total (minimum, not including proficiency)	128

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

Suggested Four-Year Curriculum for a **Major in American Studies**

First year:

3
3
3
3
3
3
3
3
1
1
6
32

Second vear:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
HIST-3110 Early American History	3
(or HIST-3120 History of Recent and Contemporary America	3)
LIT-3510 Modern American Literature	3
POLS-2100 American Political Institutions	3
Biological Science Elective	.3.5
Global Awareness Elective	3
Interdisciplinary Electives	6
Quantitative Elective	3
Total	30.5

Third year

inna your.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GEO-3510 World Regional Geography - Western	3
HIST-3720 History of Political Thought II: Modern/Contemporary	3
Humanities Elective	3
Interdisciplinary Electives	12
Physical Science Elective	3.5
Electives	4
Total	32.5

Fourth year

round your.	
POLS-3650 International Relations	3
(or HIST-4050 Issues in International Diplomacy	.3)
HIST-4700 Research in American History	3
Electives	27
Total	33



History

The **history major** prepares students for graduate work or for careers in a variety of fields including government, law, business, education, public history, and the gospel ministry. Traditionally a key component of the classical liberal arts education, history and the skills demanded by the historical process provide a necessary foundation for learning. Coursework encourages students to evaluate the historical narrative based on biblical principle, resulting in an integrative interpretation.

Course requirements involve 35 hours including:

History Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
History Major Requirements	35
Electives	
Total (minimum not including proficionau)	100



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

Suggested Four-Year Curriculum for a Major in History

First year:	
BEGE-1710 Christian Life and Thought	.3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	.3
ENG-1400 Composition	
GSS-1100 Politics and American Culture	
HIST-1110 United States History (before 1865)	.3
HIST-1120 United States History (after 1865)	.3
HUM-1400 Introduction to the Humanities	.3
PEF-1990 Physical Activity and the Christian Life	.1
Physical Education Activity Elective	.1
Electives	.3
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	
Literature Elective	3
Physical Science Elective	3.5
Quantitative Elective	3
Electives	7
Total	34
Third yo are	
Third year:	0
BEGE-3750 Christian Worldview Development	
BEGE-3760 Christian Worldview Integration	
HIST-3000 Introduction to Historiography	3
History Elective-Non-Western (major requirement)	3
History Elective (major requirement)	3
Humanities Elective	

Fourth year:

rounn your.	
HIST-4700, 4710, or 4720 Research in American, European,	
or Asian History	3
History Electives (major requirement)	9
Electives	. 19
Total	. 3

History and Political Science The history and political science major offers a broad background of world history, particularly as it relates to the study of political systems. In these disciplines, biblical interpretations of history and biblical bases for civil government are emphasized.

Course requirement involve 43-44 semester hours including: History and Political Science Core	23
HIST-1110, 1120 United States History I and II	,0
HIST-2010, 2020 History of Civilization I and II	
HIST-3110 Early American History	
(or HIST-3120 Recent and Contemporary America	
HIST-3710 History of Political Thought I: Ancient/Medieval3	
(or HIST-3720 History of Political Thought II: Modern/Cont 3) POLS-2000 Introduction to Political Science	
POLS-2100 American Political Institutions	
POLS-3600 Public Administration	
POLS-3650 International Relations	
Non-Western History Elective	
Choose one from the following concentrations 10-	11
History Concentration11	
HIST-2000 Introduction to History2	
HIST-3000 Introduction to Historiography3	
*HIST-4700 Research in American History	
(or UIST 1710 Decearch in European History 2)	
(or HIST-4710 Research in European History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	
(or HIST-4720 Research in Asian History	

**Meets general education quantitative requirement

History/Political Science Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	43-51
History/Political Science Major Requirements	
Electives	
Total (minimum, not including proficiency)	128



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

Suggested Four-Year Curriculum for a **Major in History and Political Science**

First year:

	~
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	3
HIST-1110 United States History (before 1865)	3
HIST-1120 United States History (after 1865)	
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	
Biological Science Elective	
Physical Education Activity Elective	1
Quantitative Elective	 2
Total	
10tal	2.5
Second year:	
Second year: BEGE-2730 Old Testament Literature	3
BEGE-2730 Old Testament Literature	
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature	3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I	3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II	3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science	3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions	3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions Concentration Electives	3 3 3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions Concentration Electives Literature Elective	3 3 3 3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions Concentration Electives Literature Elective Physical Science Elective	3 3 3 3 3 3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions Concentration Electives Literature Elective	3 3 3 3 3 3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature HIST-2010 History of Civilization I HIST-2020 History of Civilization II POLS-2000 Introduction to Political Science POLS-2100 American Political Institutions Concentration Electives Literature Elective Physical Science Elective	3 3 3 3 3 3 3 3 3 3

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
POLS-3600 Public Administration	3
POLS-3650 International Relations	3
Concentration Requirements	3
Humanities Elective	3
Non-Western History Elective	3
Electives	
Total	

Fourth year

International Studies – Social Science

The **social science** concentration provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as the foreign service, international media, international relations, and missions. Course requirements involve 51 hours, including:

International Studies Core	21
ANTH-1800 Cultural Anthropology	3
BEPH-2260 Religion and Culture	3
BUS-3910 International Business	3
COM-2140 Intercultural Communication	3
(or PYCH-1800 Cross Cultural Psychology	3)
GEO-3510 World Regional Geography - Western	
(or GEO-3520 World Regional Geography - Eastern	3)
HIST-2010 History of Civilization I	3
(or HIST-2020 History of Civilization II	3)
INTL-3190 Global Issues	3

Course requirements involve 30 hours including:

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Social Science Requirements9	
ECON-3350 Comparative Economic Systems	
INTL-3650 International Relations	
*INTL-4850 Research in International Studies	
Social Science Electives chosen from21	
Three or more courses selected from9	
ECON-3360 International Trade and Economics	
ECON-3380 Economic Development	
and Political Economy3	
HIST-3080 History of Russia and the Soviet Union3	
INTL-3200 History and Politics of Latin America	
INTL-3210 History and Politics of Asia	
INTL-3220 History and Politics of the Middle East3	
INTL-3230 History and Politics of Western Europe	
INTL-3240 History and Politics of Eastern Europe	
INTL-3250 History and Politics of Central and South Asia.3	
INTL-3540 History and Politics of Africa3	
INTL-3790 Comparative Politics	
NTL-4050 Issues in International Diplomacy	
INTL-4160 International and Domestic Terrorism	
INTL-4800 Seminar in International Studies	
INTL-4980 Independent Study in International Studies 1-3	
At least one course from philosophy and theology	
BEPT-2000 Introduction to Mission	
BEPT-3450 Contemporary World Missions	
BEPT-3470 Cross-Cultural Ministry	
At least one course in language and literature	
LIT-2340 Western Literature	
LIT-3400 Studies in Contemporary World Literature	
LIT-XXXX Any Non-American Literature Course	
LING-3080 Linguistics for Language Learning	
Additional required cognates	

Certified proficiency in a foreign language at a level equivalent to 4 semesters of university study.

*Capstone course

Students are also expected to have an in-depth cross-cultural experience in a non-American culture (at least 6 weeks). Travel Study must be approved by the department.

International Studies Major – Social Science Concentration Curriculum Summary:

ourriculum ourrinally.	
Proficiency Requirements	0-5
Other General Education Requirements	40-43
International Studies Core Requirements	21
Social Science Concentration Requirements	
Required Cognates	0-16
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in International Studies

First year: ANTH-Cultural Anthropology 3 BEGE-1710 Christian Life and Thought 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 English Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 1 Biological Science Elective 3.5
Literature Elective
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 – Western 3 (or GEO-3520 World Regional Geography – Western 3) HIST-2010 History of Civilization I 3 (or HIST-2020 History of Civilization I 3) Foreign Language requirement, if needed 0-8 Physical Science Elective 3.5 Electives 4-12 Total 31.5
Third year: BEGE-3750 Christian Worldview Development 2 BUS-2910 International Business 3 ECON-3350 Comparative Economic Systems 3 INTL-3190 Global Issues 3 POLS-3650 International Relations 3 Foreign Language requirement, if needed 0-8 Social Science Electives 6 Electives 5-13 Total 33
Fourth year: BEGE-3760 Christian Worldview Integration INTL-4850 Research in International Studies 3 Social Science Electives 15 Electives 11 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. Course requirements involve 43 semester hours including:

Political Science Core43
ECON-3380 Economical Develop and Political Economy 3
ENG-3010 Style and Mechanics for Writers
GSS-3630 Data Analysis and Research Methodology
HIST-1110 United States History I
(or 1120 United States History II
HIST-2010 History of Civilization I
(or HIST-2020 History of Civilization II
POLS-2000 Introduction to Political Science
POLS-2100 American Political Institutions
POLS-3600 Public Administration
POLS-3650 International Relations
POLS-3710 History of Political Thought I: Ancient/Medieval 3
POLS-3720 History of Political Thought II: Modern/Cont
POLS-3790 Comparative Politics
*POLS-4900 Research in Political Science
Political Science elective selected from
POLS-3640 Campaign and Elections
POLS-4620 Religion and American Politics
POLS-4630 American Constitutional Law
POLS-4800 Seminar in International Studies
*Capstone Course

Political Science Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	46-54
Political Science Major Requirements	43
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a **Major in Political Science**

TISLYEAL.	First	year:
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BEGE-1710 Christian Life and Thought 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HIST-1110 United States History (before 1865) 3 (or HIST-1120 United States History (after 1865) 3) HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 1 Biological Science Elective 3.5 Physical Education Activity Elective 1
Electives
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 GSS-3630 Data Analysis and Research Methodology 4 HIST-2010 History of Civilization I 3 (or HIST-2020 History of Civilization II 3) POLS-2000 Introduction to Political Science 3 POLS-2100 American Political Institutions 3 Literature Elective 3 Physical Science Elective 3.5 Global Awareness Elective 3 Total 31.5
Third year: BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 ECON-3380 Economical Development and Political Economy 3 ENG-3010 Style and Mechanics for Writers 3 POLS-3600 Public Administration 3 POLS-3650 International Relations 3 POLS-3710 History of Political Thought I: Ancient Through Medieval3 POLS-3720 History of Political Thought II: Modern/Contemporary 3 Electives 9 Total 31
Fourth year: POLS-3790 Comparative Politics 3 POLS-4900 Research in Political Science 3 Political Science Elective 3 Electives 24 Total 33

Prelaw

The **prelaw major** is designed to prepare students for law school. The curriculum seeks to provide necessary course content and to develop thinking and analytic skills needed to perform well on the Law School Admissions Test (LSAT) and in law school.

Course requirements involve 58 semester nours including:		
Prelaw Core Requirements		9
ACCT-2110, 2120 Principles of Accounting I and II	6	
BEPH-2200 Introduction to Philosophy	3	
BEPH-2240 Logic	3	
BEPH-2250 Ethics	3	
ECON-2330 Microeconomics	3	
ENG-3010 Style and Mechanics for Writers	3	
GSS-3630 Data Analysis and Research Methodology		
HIST-1110, 1120 United States History I and II	6	
HIST-2010, 2020 History of Civilization I and II	6	
HIST-3710 History of Political Thought I: Ancient/Medieval	3	
POLS-4630 American Constitutional Law		
*POLS-4700 Prelaw Seminar	3	
SOC-1300 Introduction to Sociology	3	
Select one course from the following		3
COM-2000 Persuasive Theory	3	
COM-3120 Argumentation and Debate	3	
Select two prelaw electives from the following		.6
HIST-3720 History of Political Thought II: Modern/Cont		
POLS-2100 American Political Institutions	3	
PUAD-3600 Public Administration	3	
PYCH-1600 General Psychology		
*Capstone Course		

Prelaw Major Curriculum Summary

Proficiency Requirements	0-6
Other General Education Requirements	
Prelaw Major Requirements	58
Electives (consultation with advisor)	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Prelaw

First year:	
BEGE-1710 Christian Life and Thought	2
Ŭ	
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	3
HIST-1110, 1120 United States History I and II	6
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Biological Sciences Elective	3.5
Physical Education Activity Elective	1
Physical Science Elective	3.5
Total	33

Second year:

occond year.	
ACCT-2110, 2120 Principles of Accounting I and II	6
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BEPH-2200 Introduction to Philosophy	3
BEPH-2240 Logic	
BEPH-2250 Ethics	3
ECON-2330 Microeconomics	3
HIST-2010, 2020 History of Civilization I, II	6
Global Awareness Elective	
Total	33
Third year: BEGE-3750 Christian Worldview Development BEGE-3760 Christian Worldview Integration ENG-3010 Style and Mechanics for Writers GSS-3630 Data Analysis and Research Methodology HIST-3710 History of Political Thought I: Ancient Through Medieval SOC-1300 Introduction to Sociology Literature Elective PreLaw Electives Electives	2 3 3 3 3 6
Total	
	32

Fourth year:

rounin year.	
COM-2000 Persuasive Theory	3
(or COM-3120 Argumentation and Debate	
POLS-4630 American Constitutional Law	3
POLS-4700 Prelaw Seminar	3
Electives	21
Total	30

Public Administration

The public administration major prepares students to serve others with a vision toward improving the quality of life in their local community, state, or the nation. Public administration is an academic discipline historically developed from the interrelationships between government administration, business administration, and law. The major prepares students for careers in government, non-profit and business administration, as well as graduate and professional programs in public administration, the social sciences, management, public policy, social work, criminal justice, or law by utilizing courses in political science, business administration, economics, and law.

Course requirements involve 52 semester hours including: Public Administration Core Requirements	4	3
ACCT-2110 Principles of Accounting I		
*BEPH-2250 Ethics	3	
ECON-2330 Microeconomics		
ECON-2340 Macroeconomics	3	
ECON-3390 Public Finance		
GSS-3630 Data Analysis and Research Methodology		
MGMT-3500 Principles of Organization and Management		
MRKT-3600 Principles of Marketing		
POLS-2620 American State and Local Government		
POLS-4630 American Constitutional Law	-	
PUAD-3100 Public Budgeting		
PUAD-3600 Public Administration		
PUAD-3690 Public Policy		
**PUAD-4800 Applied Public Administration		
Communication elective selected from		3
COM-2000 Persuasive Theory	3	
COM-3120 Argumentation and Debate	3	
COM-3140 Intercultural Communication		
COM-3230 Organizational Communication		
COM-3250 Interviewing	3	_
Business electives selected from		6
ECON-3130 Government and Business		
MGMT-3530 Human Resources Management		
MGMT-3550 Organizational Behavior		_
Public administration electives selected from	-	5
GSS-4990 Social Science/History Internship	-12	
PUAD-4970 Independent Study in Public Administration	10	
*Satisfies humanities elective for general education requirements.	1-3	
Sausties numantities elective for general education requirements.		

**Capstone course

Public Administration Major Curriculum Summary

Proficiency Requirements	0-6
Other General Education Requirements	
Public Administration Major Requirements	
Electives (Consultation with Advisor)	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a **Major in Public Administration**

First vear

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Biological Sciences Elective	3.5
History Elective	3
Physical Education Activity Elective	1
Physical Science Elective	3.5
Total	30

- .- .l . . .

Second year:	
ACCT-2110 Principles of Accounting I	3
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BEPH-2250 Ethics	3
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
POLS-2620 American State and Local Government	3
Global Awareness Elective	3
Literature Elective	3
Electives	6
Total	33

Third year

mild year.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
ECON-3390 Public Finance	3
GSS-3630 Data Analysis and Research Methodology	4
MGMT-3500 Principles of Organization and Management	3
MRKT-3600 Principles of Marketing	3
PUAD-3100 Public Budgeting	
PUAD-3600 Public Administration	3
PUAD-3690 Public Policy	3
Communication Elective	
Elective	3
Total	32
Fruithmen	
Fourth year:	0
POLS-4630 American Constitutional Law	
PUAD-4800 Applied Public Administration	3
Business Electives	
Public Administration Electives	
Electives	
Total	



History and Government School of Humanities

Teacher Education Licensure Program Social Studies Education – Integrated

The integrated social studies major prepares students to teach social studies in public and Christian schools in grades 7-12. Students who complete this curriculum will be licensed by the State of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the department of education section of this catalog.

Course requirements involve 43 semester hours including:

Integrated Social Studies Core43	
ANTH-1800 Cultural Anthropology	
COM-2300 Voices of Diversity	
ECON-2110 Essentials of Economics	
EDSE-3800 Teaching Social Studies: Adolescent and Young Adult2	
GEO-3510 World Regional Geography – Western	
GEO-3520 World Regional Geography – Eastern	
GSS-1100 Politics and American Culture	
GSS-3810 Clinical Teaching in Social Studies I1	
GSS-3820 Clinical Teaching in Social Studies II 1	
HIST-1110, 1120 United States History I and II6	
HIST-2010, 2020 History of Civilization I and II6	
HIST-3200 History and Politics of Latin America	
(or HIST-3210 History and Politics of Asia	
(or HIST-3220 History and Politics of the Middle East	
(or HIST-3250 History and Politics of Central/South Asia3)	
(or HIST-3540 History and Politics of Africa	
HIST/SOC-3750 Social Movements 3	
SOC-1300 Introduction to Sociology3	

EDSE-4000 Reading in the Content Area: AYA
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5
EDSE-4450 Adolescent/Young Adult Clinical Experience3
*EDSE-4900 Student Teaching and Seminar: AYA 10-12
EDSP-2000 Teaching Children with Exceptionalities
EDSP-2050 Special Education Field Experience 1
EDSP-4000 Principles of Inclusion1
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian Schools0
EDUC-2000 Introduction to Teaching
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience 1
EDUC-2500 Educational Psychology
EDUC-4500 Philosophy of Education
*Capstone Course

Students must also select a concentration in economics. aeoaranhy history political science, or sociology

geography, history, political science, or sociology.		
Economics concentration	16	
ECON-2340 Macroeconomics	3	
ECON-3340 History of Economic Thought	3	
GSS-3620 Data Analysis and Research Methodology	4	
Economics Elective selected from	6	
ECON-3310 International Money and Capital Markets	3	
ECON-3350 Comparative Economic Systems	3	
ECON-3360 International Trade Economics	3	
ECON-3370 Labor Economics	3	
ECON-3390 Public Finance	3	

Geography Concentration13
GSS-3630 Data Analysis and Research Methodology
Geography Electives selected from (must differ from core)9
HIST-3200 History and Politics of Latin America
HIST-3210 History and Politics of Asia
HIST-3220 History and Politics of the Middle East
HIST-3540 History and Politics of Africa3
INTL-4850 Research in International Studies
History Concentration12
Student must choose one of the following:
HIST-2000 Introduction to History
HIST-3000 Introduction to Historiography
History Electives selected from
HIST-3030 History of Christianity: Pre-Reformation
HIST-3040 History of Modern Britain
HIST-3050 Renaissance and Reformation Europe
HIST-3070 Europe in the 18th and 19th Centuries
HIST-3080 History of Russia and the Soviet Union
HIST-3110 Early American History
HIST-3120 History of Recent Contemporary America3
HIST-3130 Civil War and Reconstruction
HIST-3230 History and Politics of Western Europe
HIST-3230 History and Politics of Eastern Europe
HIST-4050 Issues in International Diplomacy
HIST-4440 Special Topics in History1-3
HIST-4950 Independent Study in History1-3
Political Science Concentration
GSS-3630 Data Analysis and Research Methodology
POLS-2620 American State and Local Government
Political Science Elective selected from
POLS-2000 Introduction to Political Science
POLS-3360 American Judicial Systems3
POLS-3650 International Relations
POLS-3710 History Political Thought I: Ancient/Medieval3
POLS-3720 History Political Thought II: Modern/Cont3
POLS-4050 Issues in International Diplomacy
POLS-4620 Religion and American Politics
POLS-4630 American Constitutional Law3
Sociology Concentration
GSS-3630 Data Analysis and Research Methodology
SOC-4720 Social Theory
Sociology Electives selected from
SOC-2200 Criminology
SOC-2310 Juvenile Delinquency
SOC-2400 Marriage and the Family
SOC-2840 Concepts of Chemical Dependency
SOC-2900 Ethics in the Helping Professions
SOC-3330 Social Stratification
SOC-3340 Sociology of Religion
SOC-3710 Family and Society3
SOC-3730 Social Problems3
Social Studies Education - Integrated Major
Curriculum Summary
Proficiency Requirements0-5
Other General Education Requirements
Intregrated Social Studies Ed. Major Requirements
Teacher Education Requirements
Total (minimum, not including proficiency)131

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

Suggested Four-Year Curriculum for a Major in Social Studies Education - Integrated

First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
GBIO-1000 Principles of Biology	3.5
COM-1100 Fundamentals of Speech	3
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
ENG-1400 Composition	3
GSCI-1020 Principles of Physical Science	3.5
GMTH-1010 Introduction to Mathematics	3
HIST-1110, 1120 United States History	6
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
Total	34

Second year:

ANTH-1800 Cultural Anthropology	3
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	3
ECON-2110 Essentials of Economics	3
EDSP-2000 Teaching Children with Exceptionalities	2
EDSP-2050 Special Education Field Experience	1
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	3
GSS-1100 Politics and American Culture	3
HIST-2010, 2020 History of Civilization I, II	6
SOC-1300 Introduction to Sociology	
Total	

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
EDSE-3800 Teaching Social Studies: Adolescent and Young Adult.	2
GEO-3510 World Regional Geography - Western	3
GEO-3520 World Regional Geography - Eastern	3
GSS-3810 Clinical Teaching in Social Studies I	1
GSS-3820 Clinical Teaching in Social Studies II	1
HIST-3200 History and Politics of Latin America	
(or HIST-3210 History and Politics of Asia	3)
(or HIST-3220 History and Politics of the Middle East	3)
(or HIST-3250 History and Politics of Central/South Asia	3)
(or HIST-3450 History and Politics of Africa	.3)
Concentration Requirement	12
Literature Elective	3
Total	32
Fourth yoor	
Fourth year: COM-2300 Voices of Diversity	2
EDSE-4000 Reading in the Content Area: Adolescent Young Adult.	
EDSE-4000 Principles of Teaching: Adolescent and Young Adult	
EDSE-4450 Adolescent/Young Adult Clinical Experience	
EDSE-4400 Student Teaching and Seminar: AYA	
EDSP-4000 Principles of Inclusion	
EDUC-4500 Philosophy of Education	
HIST-3750 Social Movements	
Total	
10tal	-32

Minors

History Minor

Course requirements for a minor in history involve 17 semester	
hours including:	
HIST-1110, 1120 United States History	.6
HIST-2010, 2020 History of Civilization I, II	
HIST-XXXX History Electives	
,	

International Studies-Social Science Minor

Course requirements for a minor in international studies-social science involve 18 semester hours including:

9 credit	hours	selected	from	the	International	Studies
~						

Core requirements.....9 6 Social Science credit hours selected from the 3 credit hours selected from the International Studies -

Political Science Minor

Course requirements for a minor in political science involve 18 semester hours including: POLS-XXXX Political Science Electives12

Public Administration Minor

Course requirements for a minor in public administration in	volve
18 semester hours including:	
MGMT-3500 Principles of Organization and Management	3
POLS-4630 American Constitutional Law	3
PUAD-3600 Public Administration	
PUAD-3690 Public Policy	3
PUAD-4640 Strategies for Public Administration	
ECON, POLS, or PUAD Electives	
· · ·	



Department of

Interdisciplinary Studies

Mission Statement

Interdisciplinary programs at the University are designed to encourage the thinking, research, and applications that help students understand the interrelationships among disciplines that are characteristic of a true liberal arts education. Drawing from several academic disciplines, these programs promote learning that broadens and deepens the student's view of knowledge and the world as a whole.

Personal Requirements

Students who choose interdisciplinary programs typically possess a unique love for learning. They desire to know about many areas and enjoy discovering the relationships among the various academic disciplines that comprise the body of knowledge. Though most college preparatory curricula provide a good measure of breadth through their coverage of the basic disciplines, students interested in interdisciplinary programs should choose electives that sharpen their thinking skills and expand their intellectual horizons. Advanced high school courses in writing, literature, mathematics, science, economics, world history, or social science are recommended.

Although background in foreign language is not required for admission to the programs, foreign language competency is necessary for effective international service. Consequently, two or more units of foreign language in high school are strongly recommended.

Programs of Study

The University offers the following interdisciplinary programs:

- Air Force
- Army
- Global Economics and International Business
- Honors Program
- Individualized Studies
- International Studies, with the following concentrations:
- Missiology
- Reserve Officer Training Corps (ROTC)
- Social Science

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

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 better understand how all knowledge relates to its source in God. The honors program offers an adventure in the world of ideas, coupled with practical incentives for transcribing faith and learning into the larger culture for the glory of God and the benefit of men and women in His image.

Course requirements for the honors program involve 16 semester hours including:

I. Freshman Colloquia: 1The Making of the

Modern Mind10
HON-1010 The Classical and Medieval Ages5
HON-1020 Renaissance, Reformation, and Revolutions5
II. Honors Integrative Seminars4
Two seminars, typically 2 hours each, taken in the sophomore
and junior years.
III. Honors Research Project/Thesis2
Participation in a one-hour interdisciplinary colloquium each
semester (HON-4910, HON-4920) or an interdisciplinary
research project (HON-4950).

¹If taken together, these two courses replace the following general education requirements:

HUM-1400 Introduction to the Humanities	3
Humanities Elective	3
(or 2000-level philosophy course if required for the major)	
History Elective	3

If either of these two courses are taken individually, the course may be designated as 5 semester hours of credit toward either the humanities or history general education requirements.

Individualized Studies

The **individualized studies** program serves students with specialized career aspirations that may not fit with a particular major program offered at Cedarville University or those who desire a traditional, broad undergraduate program before proceeding to graduate school. The program leads to a Bachelor of Arts degree and includes the following provisions:

- A student interested in an individualized studies program may submit a proposal after completing 20 semester hours at Cedarville University, exclusive of Advanced Placement, CLEP, and transfer credits, with 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.
- 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.

² BEPH-2260 Religion and Culture
BUS-3910 International Business
² COM-2140 Intercultural Communication
(or PYCH-1800 Cross Cultural Psychology
GEO-3510 World Regional Geography – Western
(or GEO-3520 World Regional Geography – Eastern
³ HIST-2010 History of Civilization I
(or HIST-2020 History of Civilization II
INTL-3190 Global Issues
¹ satisfies social science General Education Requirement
² satisfies humanities General Education Requirement
3satisfies history General Education Requirement

Concentrations

- The following three concentrations are available:
- Global economics and international business
- Missiology
- Social science



Global Economics and International Business Concentration The global economics and international business

concentration provides students with an economic view of the international community. Utilizing courses in business, economics, and political science, this program prepares business-oriented students for careers in international management, marketing, finance, comparative economics, missions, and foreign service.

Course requirements involve 55 hours, including:

Duralmana Administration Oran Demoinements 07
Business Administration Core Requirements
ACCT-2110, 2120 Principles of Accounting I, II
BUS-2110 Statistics I 2
BUS-2120 Statistics II2
BUS-2180 Business Law I
BUS-3990 Professional Development (2 semesters)0
BUS-4420 Business Ethics and Social Responsibility
BUS-4990 Executive Development (2 semesters)0
ECON-2330 Microeconomics 3
ECON-2340 Macroeconomics3
FIN-3710 Principles of Finance3
MGMT-3500 Prin. of Organization and Management
*MGMT-4510 Administrative Policy and Strategy
MIS-1500 Information Technology for Business
MIS-1510 Software Tools for Business2
MRKT-3600 Principles of Marketing
Global Economics and International Business
Requirements
ECON-3350 Comparative Economic Systems
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3)
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3 MGMT-3570 International Management 3
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3 MGMT-3570 International Management 3 MGMT-3570 International Management 3 MGMT-3570 International Management 3
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3 MGMT-3570 International Management 3 POLS-3650 International Marketing 3
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3 MGMT-3570 International Management 3 Additional Required Cognate 3
ECON-3350 Comparative Economic Systems 3 ECON-3360 International Trade and Economics 3 ECON-3380 Economic Development and Political Economy 3 MGMT-3570 International Management 3 (or MRKT-4620 International Marketing 3) (or FIN-3750 International Finance 3) Electives selected from 6 HIST-4050 Issues in International Diplomacy 3 MGMT-3570 International Management 3 POLS-3650 International Marketing 3

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 chair. This requirement is generally not fulfilled by travel overseas or minimum Missions Involvement Services experience.

International Studies Major–Global Economics and			
International Business Concentration Curriculum Summary:			
Proficiency Requirements	.0-5		
Other General Education Requirements40)-48		
International Studies Core Requirements	21		
Global Economics and International Business Requirements	55		
Required Cognates	3		
Electives	. 1-9		
Total (minimum, not including proficiency)	128		

Missiology Concentration

The **missiology concentration** provides students with a missiological view of the international community. Students will cultivate a deeper commitment to the global mission task as they gain knowledge in contemporary global issues, past and present mission thinking and practice, as well as the opportunities and challenges to doing missions in today's world. Students will also develop skills in understanding other cultures and living competently in another culture for the purpose of ministry.

Course	reauirements	involve 4	12 hours	including
Course	requirements	IIIVOIVE 4	-z nours.	monuama.

Niccicle w Concentration Derwirements	
Missiology Concentration Requirements	
BECE-4100 Leadership of CE Ministries	
BEPH-2200 Introduction to Philosophy	3
BEPT-2000 Introduction to Mission	3
BEPT-2400 Personal Evangelism	3
BEPT-2420 History of Mission	3
BEPT-3450 Contemporary World Mission	3
BEPT-3470 Cross-Cultural Ministry	
BEPT-3510 Introduction to Urban Ministry	3
*BEPT-4500 Missionary Internship	
BEST-4310 Hermeneutics	
BETH-3330 Christian Evidences and Apologetics	
One course in missiology	3
BEPT-4300 Seminar in Missiology	3
BEPT-4560 Advanced Urban Ministry	
Two courses in political science	6
POLS-3200 History and Politics of Latin America	3
POLS-3210 History and Politics of Asia	3
POLS-3220 History and Politics of the Middle East	3
POLS-3540 History and Politics of Africa	3
POLS-3650 International Relations	
POLS-4050 Issues in International Diplomacy	
*Capstone Course	

International Studies Major-Missiology Concentration Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
International Studies Core Requirements	21
International Studies-Missiology Major Requirements	
Electives	14-22
Total (minimum, not including proficiency)	128

Social Science Concentration

The **social science concentration** provides students with a political view of the international community. Utilizing courses in economics, geography, history, literature, and political science, this program prepares students for careers in areas such as foreign service, international media, international relations, and missions.

~			001	
Course	reauirements	involve	30 nours.	incluaina:

Course requirements involve 30 nours, including:
Social science requirements9
ECON-3350 Comparative Economic Systems
INTL-3650 International Relations
*INTL-4850 Research in International Studies
Social Science Electives selected from21
Three or more courses from the following
ECON-3360 International Trade and Economics
ECON-3380 Economic Development and Political
Economy3
HIST-3080 History of Russia and the Soviet Union
INTL-3200 History and Politics of Latin America
INTL-3210 History and Politics of Asia
INTL-3220 History and Politics of the Middle East
INTL-3230 History and Politics of Western Europe
INTL-3240 History and Politics of Eastern Europe
INTL-3250 History and Politics of Central and South Asia.3
INTL-3540 History and Politics of Africa
INTL-3790 Comparative Politics3
INTL-4050 Issues in International Diplomacy
INTL-4160 International and Domestic Terrorism
INTL-4800 Seminar in International Studies
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
BEPT-2000 Introduction to Mission
BEPT-3450 Contemporary World Missions
BEPT-3470 Cross-Cultural Ministry3
At least one course from language and literature
LIT-2340 Western Literature3
LIT-3400 Studies in Contemporary World Literature3
LIT-XXXX Any Non-American Literature Course
LING-3080 Linguistics for Language Learning
*Capstone Course

Additional required cognate

Certified proficiency in a foreign language at a level equivalent to 4 semesters of university study.

Students are also expected to have an in-depth cross-cultural experience in a non-American culture (at least six weeks).

International Studies Major – Social Science Concentration Curriculum Summary:

Proficiency requirements	0-5
Other General Education Requirements	
International Studies Core Requirements	21
Social Sciences and History Requirements	
Required Cognates	0-15
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in 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	
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
LIT-2340 Western Literature	
PEF-1990 Physical Activity and the Christian Life	
Biology Elective	
Physical Education Activity Elective	
Quantitative Elective	
Total	
Second year:	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	3
BEPH-2260 Religion and Culture	3
COM-2140 Intercultural Communication	
(or PYCH-1800 Cross Cultural Psychology	
GEO-3510 World Regional Geography – Western	3
(or GEO-3520 World Regional Geography - Eastern	3)
HIST-2010 History of Civilization I	Ś
(or HIST-2020 History of Civilization II	3)
Concentration Requirement	3-12
Physical Science Elective	
Total	33.5
Third year:	
BEGE-3750 Christian Worldview Development	2
BUS-2910 International Business	
INTL-3190 Global Issues	
Concentration Requirements	12-24
Intermediate Foreign Language, if required	
Total	32
Fourth year:	
BEGE-3760 Christian Worldview Integration	2
Concentration Requirements	
Electives	
Total	



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 education. 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, in addition to a \$300–\$500 monthly stipend depending on your progress in the program. These scholarships are available on a competitive basis to students who demonstrate academic and leadership potential. Scholarships with the greatest availability are in the areas of engineering, mathematics, computer science, physics, and nursing.

High school students should apply for a scholarship no later than December 1 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 AES-1210 The Air Force Today, course that is offered to you without tuition cost by Cedarville. Interested students should visit the Cedarville ROTC website **www.cedarville.edu/rotc** or contact the Cedarville University Admissions Office at 1-800-CEDARVILLE.

Army

Reserve Officer Training Corps (ROTC) instruction leading to a commission as a second lieutenant in the United States Army is available to Cedarville University students. Freshman- and sophomore-level classes are taught at Cedarville University. Junior-and senior-level classes, as well as drills, are conducted at Central State University, located four miles west of Cedarville. All Army ROTC courses are taken through Cedarville University. Cedarville University provides transportation.

The objectives of the Army ROTC program are:

- 1. To prepare students to serve as commissioned officers in the Regular Army, the Army National Guard, or the United States Army Reserve.
- 2. To provide an understanding of the fundamental concepts of military art and science.
- To provide students with leadership and managerial training, a basic understanding of military professional knowledge, a strong sense of personal integrity, honor, individual responsibility, and an appreciation of the requirements for national security.

The standard four-year ROTC program involves two phases: the basic course during the first two years and the advanced course during the final two years. One can qualify for advanced placement by being a veteran, a member of the United States Army Reserve or National Guard, or by attending six weeks of paid summer training following his or her sophomore year of college.

Two- and three-year merit scholarships, which pay for tuition, fees, textbooks and supplies, are available. Recipients of these scholarships also receive \$300–\$500 per month, based on their progress in the program, for 10 months of the school year while the scholarship is in effect.

Students interested in pursuing a dual civilian and military career should request information about the Guaranteed Reserve Forces Duty Scholarships and Reserve Duty options.

High school students should apply for a scholarship no later than January 10 of their senior year. Apply at www.goarmy.com/ rotc. College students will apply for scholarships through their ROTC instructor.

Interested individuals should visit the Cedarville ROTC website **www.cedarville.edu/rotc** or contact the Cedarville University Admissions Office 1-800-CEDARVILLE.

Army ROTC course requirements count as elective credits in the 128 semester hours required for graduation.



Department of

Language and Literature

Mission Statement

The Cedarville University Department of Language and Literature seeks to achieve the following objectives:

- 1. To instruct students to write effectively.
- 2. To encourage students to read and appreciate literature.
- 3. To teach students to evaluate literature intelligently.
- 4. To provide a general knowledge of the chronology and the social and intellectual background of English, American, and Spanish literature.
- 5. To prepare students for graduate work in the fields of English, Spanish, and technical communication.
- To prepare teachers of English and Spanish. 6.
- To prepare students for careers in technical communication. 7.

Personal Requirements

Students who choose English as a major are expected to acquire a high level of competency in the discipline of the English language. Those who wish to study foreign language will benefit from taking foreign language in high school. No previous foreign language experience is required to take elementary-level foreign language.

Department Requirements

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

Programs of Study

The department of language and literature offers the following programs:

Majors

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

Minors

Language and Literature

- Creative Writing
- Editing and Publishing
- German
- Literature
- Spanish
- Spanish for Professionals
- TESOL (Teaching English to Speakers of Other Languages)
- Writing for the Professions

Co-Curricular Opportunities

Cedars

Students comprise the editorial staff of Cedarville's semimonthly campus newspaper.

German Club

Provides opportunities to practice language skills and learn about cultures through extracurricular activities.

Miracle

Students with writing, photography, editorial, and layout and design talent have the opportunity to compile and edit the University's 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

ISEPS Program

The Instituto Sevillano de Estudios y Prácticas (ISEPS) is an independent, accredited educational and socio-cultural institute that offers a series of four unique overseas studies programs in Seville, Spain. These programs are carefully developed to address the requirements of undergraduates with particular abilities and interests leading to an international study abroad career preparation. Every ISEPS program is designed to be an educationally viable learning process that responds proportionately to the individual Spanish language level of each program participant. More information can be found at www.SevilleStudies.com. Students interested in the program should contact Dr. Andrew Wiseman for additional information. ISS (Institute of Spanish Studies)

The Institute of Spanish Studies was established in 1950 in cooperation with the Universities of San Francisco and Valencia. In 1985, the institute became an independent program; at present, it is associated with Longwood University of Virginia. Classes in Valencia, Spain, are held at the American Institute, with its own fully equipped premises. More information can be found at www.spanish-studies.com. 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 US 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. 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:

- Language tutorials
- Publication design
- · Reading and writing skill builders

Language and Literature

Career Opportunities

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

Teaching

Technical communication

Technical marketing

communication

Web design

- · Creative writing
- International business
- Journalism
- Law
- MissionsPublishing

Faculty

Kevin Heath, Chair: Professor of English. Education: B.A., Truman State University, 1986; M.A., Michigan State University, 1988; graduate study, Grand Rapids Baptist Seminary, 1989; Ph.D., University of Cincinnati, 1999. At Cedarville since 1990. Gregory Belliveau, Assistant Professor of English. Education: B.A., Kent State University, 1990; M.A., Kent State University,

1995. At Cedarville since 1996.

Scott Calhoun, Associate Professor of English. *Education:* B.A., Cedarville University, 1995; M.A., Bowling Green State University, 1997; Ph.D., Bowling Green State University, 1999. At Cedarville since 1999.

Daniel Clark, Assistant Professor of English. *Education:* B.A., Tennessee Temple University, 1988; M.A., University of Tennessee at Chattanooga, 1993. At Cedarville since 1999.

Donald Deardorff II, 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. **Melissa Faulkner**, Assistant Professor of English. *Education:* B.A. English and Political Science, Wright State University (2001), M.A. English, Composition and Rhetoric, Wright State University (2003) Ph.D. (ABD) English, Miami University of Ohio (2007)

Ryan Futrell, Associate Professor of English. *Education:* B.A., Cedarville University, 1997; M.F.A., University of North Carolina at Greensboro, 2000. At Cedarville since 2003.

Nellie Corder, Assistant Professor of English. *Education:* B.S., Central Michigan University, 2002; M.A., Central Michigan, 2004; M.F.A., University of Iowa, 2006. At Cedarville since 2006.

Sandra Harner, Professor of Technical Communication.

Education: B.A., Cedarville University, 1964; M.A., University of Dayton, 1981. At Cedarville since 1981.

Louise Grandouiller, Assistant Professor of French. *Education:* B.A., Indiana University, 1975; M.A., University of Texas at Arlington, 1980. At Cedarville since 2009.

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, Associate Professor of English. *Education:* B.A., Cedarville University, 1987; M.A., University of Dayton, 1989; The Ohio Writing Project, Miami University, 1993. At Cedarville since 1999.

Karen Power, Associate Professor of English. *Education:* B.S., The Ohio State University, 1976; M.A., Wright State University, 1995. At Cedarville since 1995.

Annis Shaver, Assistant Professor of German. *Education:* B.A., B.S., Tennessee Technological University, 1978; M.A., Louisiana University, 1980; Ph.D., University of Miami, 2004. At Cedarville since 2005.

Peggy Wilfong, Professor of English. *Education:* B.A., Tennessee Temple University, 1976; M.A., University of Alabama in Huntsville, 1990; Ph.D., Indiana University of Pennsylvania, 2000. At Cedarville since 2000.

Andrew S. Wiseman, Assistant Professor of Spanish. *Education:* B.A., University of Massachusetts at Amherst, 1992; Undergraduate Studies, Universidad de Sevilla, Spain, 1990-1991; Undergraduate Studies, Universidad Internacional SEK, Santiago, Chile, 1992-1993; M.A., Florida State University, 1995; Ph.D., Universidad de San Jose, San Jose, Costa Rica, 2002. At Cedarville since 2000.

Chimi Woo, Assistant Professor of English. *Education:* A.A., Yonsei University, 1994; M.A., Yonsei University, 1997; Ph.D., The Ohio State University, 2008. At Cedarville since 2008. **Michelle Wood**, Associate Professor of English. *Education:* B.A., Cedarville University, 1992; M.A., Wright State University, 1997. At Cedarville since 1995.

Raymond Bartholomew, Professor Emeritus of English. *Education:* B.A., Cedarville University, 1957; M.A., Case-Western Reserve University, 1959; Ph.D., Case-Western Reserve University, 1964. At Cedarville 1959-1966, 1983 to 2006. 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.

Edward Spencer, Professor Emeritus 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.



Language and Literature School of Humanities

English

Course requirements for the English major involve 52 semester hours including:

nouro moranigi	
Core Requirements	
ENG-2230 Advanced Composition	
LIT-2090 Literary Analysis	. 3
LIT-2340 Western Literature	
LIT-2390 Survey of American Literature to 1900	
LIT-2430 Survey of British Literature to 1800	
LIT-2440 Survey of British Literature from 1800 to Present	. 3
LIT-3350 Shakespeare	. 3
*LIT-4220 English Seminar	
Studies in Modern Literature: Two Courses	
LIT-3380 Contemporary British Literature	
LIT-3400 Studies in Contemporary World Literature	. 3
LIT-3510 Modern American Literature	
LIT-4510 Recent American Literature	
Historical Studies in English: Two Courses	
ENG-3060 The English Language	
LIT-3170 American Literature: 1820-1865	
LIT-3180 American Literature: 1865-1914	
LIT-3305 18th Century British Literature	
LIT-3320 Renaissance Literature	
LIT-3340 19th Century British Literature	
LIT-4450 Milton: Poetry and Selected Prose	. 3
Genre Studies: Two Courses	
LIT-2130 Dramatic Literature	
LIT-3310 English Novel	. 3
LIT-3420 American Novel	
LIT-4310 Advanced Literary Theory	
LIT-4420 European Novel	
Electives in English/Literature	10
*Capstone Course	

English Major Curriculum Summary

o , , , , , , , , , , , , , , , , , , ,	
Proficiency Requirements	0-5
Other General Education Requirements	
English Major Requirements	
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a **Major in English**

First year: BEGE-1710 Christian Life and Thought BEGE-1720 Spiritual Formation COM-1100 Fundamentals of Speech ENG-1400 Composition GBIO-1000 Principles of Biology GSS-1100 Politics and American Culture HUM-1400 Introduction to the Humanities LIT-2090 Literary Analysis LIT-2340 Western Literature PEF-1990 Physical Activity and the Christian Life History Elective Physical Education Activity Elective. Total	3
Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature ENG-2230 Advanced Composition LIT-2390 Survey of American Literature to 1900 LIT-2430 Survey of British Literature to 1800 LIT-2440 Survey of British Literature from 1800 to Present Physical Science Elective Quantitative Elective Social Science/Global Awareness Elective Electives	3 3 3 3 3 3 3 3 3
Third year: BEGE-3750 Christian Worldview Development	2

2
2
3
6
6
12
31
3
6
10
3

Language and Literature School of Humanities

Technical and Professional Communication

The **technical and professional communication major** prepares students for positions as communication experts in a variety of industries. The major itself involves 57 semester hours in specific technical and professional communication courses.

Technical and Professional Communication Core57
ENG-2230 Advanced Composition
ENG-3070 Advanced Grammar for Adolescent Teachers3
GDES-1300 Graphic Design for Non-majors
TPC-2000 Production Tools for Technical Communication 3
TPC-3010 Style and Mechanics for Writers
TPC-3020 Professional Portfolio Development I 1
TPC-3090 Technical Marketing Communication
TPC-3130 Technical Communication
TPC-3170 The Technical Communicator in a Corporate
Culture2
TPC-3180 Visual Rhetoric2
TPC-3210 Technical Editing2
TPC-3250 Design of Manuals 3
TPC-3290 Proofreading2
TPC-4010 Designing Technical Reports
TPC-4020 Professional Portfolio Development II
TPC-4050 Designing Online Information I
TPC-4090 Designing Online Information II
TPC-4130 Instructional Design I
TPC-4140 Instructional Design II
TPC-4160 Technical and Professional Communication
Internship5
*TPC-4170 Special Topics
*Capstone Course

Technical and Professional Communication Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	52-60
Technical and Professional Communication Requirements	57
Electives	6-19
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:

Scott Bennett, Procter and Gamble Chrystal Dunson, Watson Dunson and Associates, Inc. Guy Margiotta, Nationwide Sylvia Miller, CDO Technologies Carole Rennie, SaBER Corporation Walt Staudenmaier, Bastion Consulting Jim Visgaitis, SaBER Corporation Phil Wittmer, Lexis/Nexis Tom Zimmerman, GE Medical Systems A complete description of the general education requirements is found on page 24

Suggested Four-Year Curriculum for a Major in Technical and Professional Communication

Major in Technical and Professional Communication
First year: BEGE-1710 Christian Life and Thought
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 ENG-2230 Advanced Composition 3 ENG-3070 Advanced Grammar for Adolescent Teachers 3 TPC-2000 Production Tools for Technical Communication 3 Humanities Elective 3 Physical Science Elective 3.5 Electives 11 Total 32.5
Third year: BEGE-3750 Christian Worldview Development. 2 BEGE-3760 Christian Worldview Integration 2 TPC-3010 Style and Mechanics for Writers 3 TPC-3020 Professional Portfolio Development. 1 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 History Elective 3 Social Science 3 Electives 3 Total 29
Summer: TPC-3290 Proofreading2 TPC-4160 Technical and Professional Communication Internship5 Total7
Fourth year: TPC-3090 Technical Marketing Communication

Foreign Language

As students become acquainted with the language, lifestyles, and belief systems of another culture, they can develop greater insight into that culture. Knowledge of a second language can become a valuable support skill for careers in business, Christian ministry, education, government, and social services. The department provides a variety of language courses that allow students to develop basic communication skills and cultural awareness.

Guidelines for satisfying the General Education Requirement for foreign language are found on page 25. Language students are also encouraged to consider the study abroad options listed under Travel Study Opportunities.

Spanish

The Spanish major enables students to develop skills in reading, writing, speaking, and comprehending spoken Spanish to gain cultural understanding that will enable them to interact appropriately in a variety of social contexts. Studying the language, history, and literature of the Hispanic peoples provides students with opportunities to practice their language skills and gain appreciation for the contributions and values of the Hispanic culture. Students are encouraged to enhance their program by participating in an approved cross-cultural experience such as a study abroad program or missions outreach.

Course requirements involve 34 semester hours including:	
SPAN-2710, 2720 Intermediate Spanish I and II7	,
SPAN-3610 Spanish Composition3	5
SPAN-3620 Spanish Conversation	
SPAN-3640 Introduction to Hispanic Literature	
SPAN-4610 Advanced Spanish Grammar3	5
*SPAN-4640 Topics in Hispanic Culture3	5
Two courses selected from the following6	
SPAN-4650 Civilization and Literature of Latin America I 3	
SPAN-4670 Civilization and Literature of Latin America II 3	
SPAN-4070 GIVINZATION and Literature of Latin America II 3	
SPAN-4670 Civilization and Literature of Spain I	
SPAN-4740 Civilization and Literature of Spain I	;

Spanish Major Curriculum Summary

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

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

Suggested Four-Year Curriculum for a **Major in Spanish**

First year:	
BEGE-1710 Christian Life and Thought	.3
BEGE-1720 Spiritual Formation	.3
COM-1100 Fundamentals of Speech	.3
ENG-1400 Composition	.3
GBIO-1000 Principles of Biology	.5
HUM-1400 Introduction to the Humanities	.3
PEF-1990 Physical Activity and the Christian Life	.1
SPAN-1710, 1720 Elementary Spanish*	.8
History Elective	
Physical Education Activity Elective	.1
Elective	.3
Total	.5

Second year

Second year.
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
GSS-1100 Politics and American Culture
SPAN-2710, 2720 Intermediate Spanish7
Literature Elective
Physical Science Elective
Quantitative Elective
Electives
Total 315

Third year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
SPAN-3610 Spanish Composition	
SPAN-3620 Spanish Conversation	3
SPAN-3640 Introduction to Hispanic Literature	3
Social Science Elective	3
Electives	
Total	
Fourth year:	
SPAN-4610 Advanced Spanish Grammar	3
SPAN-4640 Topics in Hispanic Culture	3
Spanish Literature Electives	6
Spanish Electives	6
Electives	
Total	
10(a)	

* Elementary Spanish does not count toward the major.



School of Humanities

Teacher Education Licensure Program Language Arts Education – Integrated

The **integrated language arts major** prepares students to teach language arts in public and Christian schools in grades 7–12. Students who complete this curriculum will be licensed by the state of Ohio and the Association of Christian Schools International. The Ohio teaching license, through reciprocal agreements, is automatically recognized in 42 states. For additional information about teaching in other states, see the department of education section of this catalog.

Course requirements involve 62 hours in integrated language artsand 33-35 hours in professional education requirements.Language Arts Education CoreS3COM-2300 Voices of Diversity3EDSE-3100 Contemporary Young Adult Literature3ENG-2070 Fundamentals of English Grammar3ENG-2070 Fundamentals of English Grammar3ENG-2070 Fundamentals of English Grammar3ENG-2070 Advanced Composition3ENG-3070 Advanced Grammar for Adolescent Teachers.3ENG-3010 Style and Mechanics for Writers.3ENG-3000 Developmental Reading2LIT-2090 Literary Analysis.3LIT-2120 History of Literary Criticism3LIT-2300 Survey of American Literature to 1900.3LIT-2400 Methods of Teaching Integrated Language Arts3LIT-3200 Methods of Teaching Integrated Language Arts3LIT-3300 Survey of British Literature from 1800 to Present3LIT-3300 Methods of Teaching Integrated Language Arts3LIT-3340 Contemporary World Literature3LIT-3340 Contemporary British Literature3LIT-3300 Contemporary British Literature3LIT-3300 Contemporary British Literature3LIT-3300 Contemporary British Literature3LIT-3300 Contemporary British Literature3LIT-2130 Dramatic Literature3LIT-330
LIT-4310 Literary Theory3
LIT-4420 European Novel
ENG-3020 Creative Writing: Short Forms

Professional Education Requirements33-35EDSE-4100 Principles of Teaching: Adolescent Young Adult5EDSE-4450 Adolescent/Young Adult Clinical Experience3*EDSE-4900 Student Teaching and Seminar: AYA10-12EDSP-2000 Teaching Children with Exceptionalities2EDSP-2050 Special Education Field Experience1EDUC-1000 The Education Profession1EDUC-1050 Contemporary Christian Schools0EDUC-2000 Introduction to Teaching2EDUC-2100 Technology in the Classroom2EDUC-2200 Multicultural Field Experience1EDUC-2500 Educational Psychology3EDUC-4500 Philosophy of Education2

Language Arts-Integrated Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Language Arts Integrated Major Requirements	
Education Requirements	33-35
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Language Arts Education - Integrated

First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
EDUC-1000 The Education Profession	1
ENG-1400 Composition	3
ENG-2070 Fundamentals of English Grammar	3
GBIO-1000 Principles of Biology	3.5
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
LIT-2090 Literary Analysis	3
LIT-2120 History of Literary Criticism	3
LIT-2340 Western Literature	3
PEF-1990 Physical Activity and the Christian Life	1
Total	

Second year:

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	
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	
ENG-3070 Advanced Grammar for Adolescent Teachers	3
ENG-3010 Style and Mechanics for Writers	3
GMTH-1010 Introduction to Mathematics	3
LIT-2390 Survey of American Literature to 1900	3
LIT-2430 Survey of British Literature to 1800	3
Physical Education Activity Elective	1
Writing Studies Elective	3
Total	36

Third year:

Iniro year:	
BEGE-3750 Christian Worldview Development	2
EDSE-3100 Contemporary Young Adult Literature	3
EDSE-4100 Principles of Teaching: Adolescent and Young Adult	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	3
EDSP-4000 Principles of Inclusion	1
ENG-2230 Advanced Composition	3
ENG-3060 The English Language	3
ENG-3300 Developmental Reading	3
LIT-2440 Survey of British Literature from 1800 to Present	3
LIT-3200 Methods of Teaching Integrated Language Arts	3
LIT-3350 Shakespeare	3
Physical Science Elective	3.5
Total	. 36.5

Fourth year:

rounnyour.	
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	
ENG-4200 Methods of Teaching Writing	2
LIT-3440 Multiethnic American Literature	
Genre Studies Elective	3
Modern Literature Elective	3
History Elective	3
Total	

Spanish Education – Multi-Age

The Spanish education major provides students with the cultural background and language skills necessary to function in the Spanish classroom and in the Spanish-speaking world. This major prepares students to teach in grades K-12 in public and Christian schools. For information about teaching in other states, see the department of education section in this catalog.

Course requirements involve 53 credit hours in Spanish and 42-44 credit hours in professional education requirements including:

Spanish Education major core courses:4	1
LING-3080 Linguistics for Language Learning	
SPAN-1720 Elementary Spanish II 4	
SPAN-2710, 2720 Intermediate Spanish I and II7	
SPAN-3610 Spanish Composition	
SPAN-3620 Spanish Conversation	
SPAN-3640 Introduction to Hispanic Literature	
SPAN-3660 Spanish for Professionals	
SPAN-3680 Understanding Hispanic Cultures	
SPAN-4610 Advanced Spanish Grammar	
SPAN-4640 Topics in Hispanic Culture	
SPAN-4670 Civilization and Literature of Latin America II3	
SPAN-4750 Civilization and Literature of Spain II	
Spanish Electives selected from the following1	2
SPAN-3670 Introduction to Translation2	
SPAN-3690 Hispanic Film3	
SPAN-4650 Civilization and Literature of Latin America I 3	
SPAN-4680 Advanced Conversation and Composition 2	
SPAN-4700 Independent Study in Spanish 1-3	
SPAN-4740 Civilization and Literature of Spain I	
SPAN-4790 Twentieth Century Spanish Theatre	
Professional Education Requirements 42-4	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5EDSE-4450 Adolescent/Young Adult Clinical Experience	4
EDSE-4100 Principles of Teaching: Adolescent Young Adult 5 EDSE-4450 Adolescent/Young Adult Clinical Experience	4

Spanish Education Multi-Age Curriculum Summary

Total (minimum, not including proficiency)	141
Education Requirements	42-44
Spanish Education Multi-Age Major Requirements	53
General Education Requirements	46
Proficiency Requirements	0-5

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

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

First	vear:
FIRST	year:

Thot your.	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
EDUC-1000 The Education Profession	1
ENG-1400 Composition	3
GBIO-1000 Principles of Biology	.3.5
GMTH-1800 Introduction to Mathematics	
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
SPAN-1720 Elementary Spanish II	4
SPAN-2710, 2720 Intermediate Spanish	7
SPAN-3640 Introduction to Hispanic Literature	3
Physical Education Activity Elective	1
Total	

Second vear

BEGE-2730 Old 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	
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multi-Cultural Field Experience	1
GSCI-1020 Principles of Physical Science	3.5
LING-3080 Linguistics for Language Learning	
SPAN-3610 Spanish Composition	
SPAN-3620 Spanish Conversation	
SPAN-3660 Spanish for Professionals	
SPAN-3680 Understanding Hispanic Cultures	
Spanish Electives	
Total	

Third vear:

BEGE-2740 New Testament Literature	3
BEGE-3750 Christian Worldview Development	2
EDUC-2500 Educational Psychology	3
EDUC-4000 Reading in the Content Area-Multi-Age	3
GSS-1100 Politics and American Culture	
SPAN-4670 Civilization and Literature of Latin America II	3
SPAN-3350 Elementary Education for Foreign Language Teachers	
SPAN-3600 Clinical Teaching in Spanish	
History Elective	
Social Science Elective	3
Spanish Elective	
Total	
Fourth year:	
BEGE-3760 Christian Worldview Integration	2
EDSE-4100 Principles of Teaching: Adolescent and Young Adult	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	3

EDSE-4450 Adolescent/Young Adult Clinical Experience	3
EDSP-4000 Principles of Inclusion	1
EDUC-4500 Philosophy of Education	2
EDUC-4900 Student Teaching and Seminar-Multi-Age	10-12
SPAN-3500 Methods of Teaching Foreign Language	2
SPAN-4610 Advanced Spanish Grammar	3
SPAN-4640 Topics in Hispanic Culture	3
SPAN-4750 Civilization and Literature of Spain II	3
Total	34-36

Language and Literature

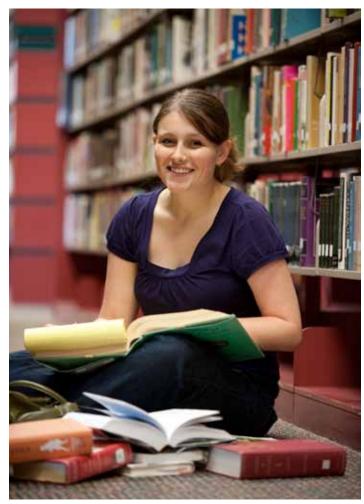
School of Humanities

Minors

Asian Studies Minor

Creative Writing Minor

The minor in creative writing is designed to enhance	
the student's abilities in various modes of writing. Course	
requirements involve 17 credit hours including:	
ENG-2230 Advanced Composition	3
ENG-3030 Creative Writing: Fiction	3
ENG-3040 Creative Writing: Poetry	3
ENG-3050 Creative Writing: Nonfiction	3
Advanced Workshops (choose two from the following)	4
ENG-4030 Advanced Workshop: Fiction	2
ENG-4040 Advanced Workshop: Poetry	2
ENG-4050 Advanced Workshop: Nonfiction	2
ENG-4345 Portfolio and Performance	1





Editing and Publishing Minor

French Minor

German Minor

The **German** minor is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 17 credit hours including:

GER-1820 Elementary German II	4
GER-2810 Intermediate German I	
GER-2820 Intermediate German II	3
GER-3830 Survey of German Literature	3
3000-level German Electives	3

Language and Literature School of Humanities

Literature Minor

The literature minor is designed to enhance the student's
knowledge and appreciation of literature and the English
language. Course requirements involve 15 credit hours including:
LIT-2340 Western Literature
American Literature: One course
British Literature: One course
Literature Electives: 3000-4000-level

Middle Eastern Studies Minor

The middle eastern studies minor is designed to enhance the student's understanding and skill in foreign language. Course requirements involve 22 credit hours including:

One year of Elementary Middle Eastern language	6-8
(or ARBC-1400 Introduction to Arabic Language	
and Culture	3
*and one semester of HEB-1XXX Hebrew	3-4)
(or ARBC-1410, 1420 Elementary Arabic I and II	8)
ANTH-1800 Cultural Anthropology	
INTL-3220 History and Politics of Middle East	
Electives selected from the following	
ARBC-2410, 2420 Intermediate Arabic I and II	
ARBC-3500 Independent Study in Arabic Language	
and Culture	1-3
BEPH-2260 Religion and Culture	
BEPT-2000 Introduction to Mission	
BEPT-3450 Contemporary World Mission	
BEPT-3470 Cross-Cultural Ministry	
COM-2140 Intercultural Communication	
GEO-3520 World Regional Geography – Eastern	
PYCH-1800 Cross-Cultural Psychology	
*Hebrew is through online or study abroad programs.	•
, abroad programor	

Spanish Minor

The Spanish minor is designed to enhance the student's	
understanding and skill in foreign language. Course requirements	S
for the Spanish minor involve 17 hours including:	
SPAN-1720 Elementary Spanish	.4
SPAN-2710, 2720 Intermediate Spanish	.7
SPAN-3640 Introduction to Hispanic Literature	.3
Spanish Elective: 3000- or 4000-level	.3

Spanish for Professionals Minor

The Spanish for professionals minor is designed for careers	
linked to public service (social work, criminal justice, health care,	
and other related fields). Course requirements for the Spanish for	
professionals minor involve 16 credit hours including:	
SPAN-2710, 2720 Intermediate Spanish7	
SPAN-3620 Spanish Conversation	
SPAN-3660 Spanish for Professionals	
SPAN-3680 Understanding Hispanic Cultures	

Writing for the Professions Minor

The writing for the professions minor is designed to prep	are
students from a variety of majors to be better writers and to	
acquire the professional skills required in a corporate setting.	
Course requirements involve 18 credit hours including:	
ENG-3010 Style and Mechanics for Writers	3
(or TPC-3010 Style and Mechanics for Writers	3)
TPC-2000 Production Tools for Technical Communication	3
TPC-3100 Designing Visual Communication	3
TPC-3090 Technical Marketing Communication	3
TPC-4090 Designing Information for the Web II	3
TPC-4130 Instructional Design I	3

TESOL Endorsement and Minor (Teaching English to Speakers of Other Languages)

The TESOL endorsement prepares teachers to teach English to speakers of other languages in multi-age classrooms in the United States and overseas. Students interested in the TESOL endorsement must possess or be working toward the completion of degree and licensure requirements. Students who complete the TESOL endorsement program will automatically receive the minor and are eligible to receive an institution-endorsed certificate. 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 to qualify for admission. Course requirements for the TESOL endorsement involve 20 hours including: COM-2140 Intercultural ommunication

COM-2140 Intercultural Communication	3
ENG-3060 History of the English Language	3
ENG-3070 Advanced Grammar for Adolescent Teachers	
LING-3080 Linguistics for Language Learning	3
LING-3090 Sociolinguistics	3
LING-3600 Clinical Teaching English as a Second Language	1
LING-3610 Practicum	2
LING-3500 Methods of Teaching Foreign Language	2
Passing score on Praxis II TESOL exam	

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. 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 to be admitted to the minor. Course requirements for the TESOL minor involve 16 hours including:

ENG-3070 Advanced Grammar for Adolescent Teachers	COM-2140 Intercultural Communication	
LING-3090 Sociolinguistics	ENG-3070 Advanced Grammar for Adolescent Teachers	3
LING-3500 Methods of Teaching Foreign Language2 *LING-3710 TESOL Practicum for Non-education Majors2	LING-3080 Linguistics for Language Learning	3
LING-3500 Methods of Teaching Foreign Language2 *LING-3710 TESOL Practicum for Non-education Majors2	LING-3090 Sociolinguistics	3
-		
*May be satisfied by satisfactory completion of LING-3600 and LING-3610.	*LING-3710 TESOL Practicum for Non-education Majors	2
	*May be satisfied by satisfactory completion of LING-3600 and LING-3610.	



Department of

Music, Art, and Worship

Mission Statement

The purpose of the Cedarville University Department of Music, Art, and Worship is to help develop an appreciation and understanding of the musical and visual arts consistent with a biblical worldview. The department seeks to help students gain an understanding of the responsibility of stewardship, service, and worship that is placed upon those to whom God has given musical and artistic talents.

Students completing programs in music, art, and worship will be able to:

- Demonstrate an understanding of technical skills necessary for the solo performance of music and the individual creation of art.
- 2. Articulate a biblical philosophy of fine and performing arts which reveals an understanding of the integration of faith and learning.
- 3. Demonstrate awareness of historical as well as new styles of music, art, and worship.
- 4. Manifest attitudes necessary to guide others toward an increased understanding of the arts.
- 5. Participate in performances or presentations that contribute to the artistic cultures of the University and the community.

The music programs of study are accredited by the National Association of Schools of Music (NASM).

Personal Requirements Auditions

Applicants who wish to major in music should follow the standard procedures for admission. Satisfactory completion of an audition is required for approval as a music major.

Students should check the website at **www.cedarville.edu/ musicartworship** to obtain requirements and to schedule an audition.

Scholarships

Scholarship assistance is available to music majors who qualify on the basis of audition, academic record, and references. Additional academic scholarships and other types of financial assistance are available to qualified individuals through the Cedarville University Financial Aid Office.

Music Theory Exams

All incoming students are required to pass the Music Theory Competency Exam. This test assures that students have the minimum knowledge necessary for college-level music theory courses. The exam is scheduled during Getting Started Week activities.

Students who have had significant music theory training prior to attending Cedarville may take the Music Theory Test-Out Exam. Contact the department of music for additional information regarding this test.

Portfolio

Applicants who wish to major in studio art or graphic design should follow the standard procedure for admission. A portfolio submission for either major is encouraged but is not a requisite for admission into the program. Portfolios should be submitted on a CD or at an arranged on-campus interview.

Department Requirements

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

Graphic Design and Studio Art Requirements

Freshman Review

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

Sophomore Portfolio Review

At the end of the second semester of the sophomore year, graphic design and studio art majors are required to apply to the department for upper-divisional standing. The student is required to present a portfolio representing every area of his or her work in graphic design and/or studio art courses at the University. The portfolio should include original two-dimensional work and a CD of images of three-dimensional work. The graphic design and studio art faculty will evaluate the student on the basis of academic progress, grade averages in major courses, and the portfolio that is submitted. Students who do not pass their sophomore review will not be allowed to continue in the major.

Transfer Review

All students who wish to transfer from another college or university and enroll at Cedarville University as either a graphic design or a studio art major on the junior or senior level must submit the same material requested for the sophomore portfolio review. The graphic design and studio art faculty will review this material before acceptance into the program is granted.



Music Requirements

Music Student Handbook

The *Music Student Handbook* is the authoritative statement on all department policy as it applies to the student. Each music student is responsible for following the policies and procedures contained in both the handbook and the University catalog. The handbook can be found online at **www.cedarville.edu/ academics/musicandart/studentresources.htm**

Private Lessons

Private lessons are open to all music majors and minors with curricular need. Students are expected to take private lessons on their major instrument for each semester they are enrolled. Exceptions to this include students who are student teaching and other circumstances as deemed appropriate by the chair.

Semester Performance Juries

All music majors perform a jury in their primary performing area every semester. The jury is a short performance for a committee of music faculty. The grade from the jury counts for 25% of the final grade in private lessons for the semester. For performance majors, the jury counts for 33% of the final grade in private lessons.

Freshman Review

After the second semester of study, freshmen are evaluated by a committee of music faculty to determine whether they are making adequate progress to continue in the music program. Students who do not show satisfactory progress may be asked to change majors.

Sophomore Check

While the primary screen for continuance in the music program occurs at the Freshman Review, student achievement is also checked at the end of the sophomore year to confirm adequate progress toward degree completion and admittance to upper-level music courses.

Piano Proficiency

All music majors are expected to meet the minimum proficiency requirements for piano as established by the department. Piano placement is done during Getting Started Week. Complete piano proficiency requirements are available in the music office.

Technology Proficiency

All music majors are expected to meet proficiency requirements for technology as established by the department. This requirement can be met by successfully passing a technology proficiency test or by passing THMU-1500 Introduction to Music Technology.

Ensemble Participation

Music majors are expected to participate in at least one ensemble every semester they are enrolled. Once the credit requirements for their majors are fulfilled, they may enroll for 0 credit.

Recital and Program Attendance

Attendance is required of all music majors and minors. All students must complete recital and program attendance each semester they are enrolled as a music major. Minors must take two consecutive semesters.

Capstone Recital or Project

In addition to performance in general student recitals throughout the college experience, all music majors are required to exhibit a level of performance for graduation that meets the requirements and standards of the department. For all majors, the capstone requirement is a senior recital or project.

Fees

Instrumental rental fee per semester: \$50; practice room fee per semester: \$100 (each hour of lesson credit). Classes that involve labs or University-provided student equipment may also have similar fees.

Programs of Study

The department of music, art, and worship offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Music
- Graphic Design
- Studio Art
- Worship

Bachelor of Music (B.M.) in:

- Church Music Ministries
- Composition
- Keyboard Pedagogy
- Performance

Bachelor of Music Education (B.M.E.) in:

- Choral
- Instrumental

Minors

- Studio Art
- Church Music Ministries
- Graphic Design
- Music

Technical Resources

The department of music, art, and worship relies heavily on the use of technology to accomplish its educational objectives. Music students will spend time in a state-of-the-art music computer/synthesizer lab that allows them to practice ear training, produce printed musical scores, and complete fully-orchestrated compositions. Graphic design students render and complete class assignments in a fully-equipped Macintosh computer lab using industry-standard programs.



School of Humanities

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 are required to participate in the collegiate chapter of MENC: The National Association for Music Education. This award-winning chapter offers many professional and service opportunities to its members.

Career Opportunities

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

- Art preparator
- College professor
- Music supervisor • Music therapist
- Community arts manager • Composer/arranger •
- Performer •

Studio artist

Studio teacher

Recording studio technician Retail music salesperson .

or public schools)

School teacher (elementary

and secondary Christian

- Graphic artist • •
- Illustrator
- Instrument salesperson
- Minister of music •
- Music editor •
- Music librarian

Faculty

Beth Cram Porter, Chair. Associate Professor of Vocal Music. Education: B.M., Baylor University, 1984; M.A., Western Carolina University, 1996; voice student of Joyce Farwell. At Cedarville since 1997.

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Connie Anderson, Assistant Professor of Music. Education: B.A., Cedarville University, 1973; M.M., Wright State University, 1994. At Cedarville since 1999.

Lyle Anderson, Professor of Music. Education: B.M.E., Cedarville University, 1970; M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1977. At Cedarville since 1970.

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

Charles Clevenger, Professor of Music. Education: B.A., Bob Jones University, 1974; piano student of Imogene Darling, Laurence Morton, Raymond Dudley, and Richard Morris; M.M., University of Cincinnati College-Conservatory of Music, 1976; D.M.A., University of Cincinnati College-Conservatory of Music, 1985. At Cedarville since 1982.

Bruce Curlette, Professor of Music. Education: B.S., Jacksonville State University, 1979; M.M., Eastman School of Music, 1981; clarinet student of D. Stanley Hasty; D.M.A., The Ohio State University, 1991; clarinet student of James M. Pyne. At Cedarville since 2001.

Michael DiCuirci, Professor of Music. Education: B.M., University of Michigan, 1971; euphonium/ trombone student of Fred Snyder, Abe Torchinsky, and Glenn Smith; M.M., University of Michigan, 1977. At Cedarville since 1979.

Taylor Ferranti, Associate Professor of Vocal Music. Education: B.M., Crane School of Music at SUNY Potsdam, 1996; M.M., Boston Conservatory, 1999; D.M.A., Louisiana State University, 2004; voice student of Stephen F. Austin and Cornelius L. Reid. At Cedarville since 2004.

Timothy Frame, Assistant Professor of Graphic Design. Education: B.A., Morehead State University. At Cedarville since

2003. Aaron Gosser, Assistant Professor of Studio Art. Education: B.A., Goshen College, 2002. At Cedarville since 2005.

Austin Jaquith, Assistant professor of Music Theory and Composition. Education: B.M., Cleveland Institute of Music, 2003; M.M., University of Houston, 2005; D.M.A., Indiana University, 2009. At Cedarville since 2009.

Jun Kim, Assistant Professor of Music. Education: B.M, Peabody Institute of Music, 1997; M.M., Indiana University, 1998; Artist Diploma in Violin Performance, University of Cincinnati College-Conservatory of Music, 2003. At Cedarville since 2006. James Mellick. Associate Professor of Studio Art. Education:

B.A., Greenville College, 1969; M.F.A., Southern Illinois University, 1973. At Cedarville since 2008.

Dylan Menges Assistant Professor of Graphic Design. Education: B.A. Columbus College of Art and Design, 1998. At Cedarville since 2009.

John Mortensen, 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, Associate 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. Mark Spencer, Associate Professor of Vocal Music. Education: B.A., Judson College, 1981; M.M., Southwestern Baptist Theological Seminary, 1984; D.M.A., Southwestern Baptist Theological Seminary, 1992; voice student of Jack Coldiron. At Cedarville since 1993.

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

Steven Winteregg, Dean: School of Humanities. 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. Sandra Yang, Assistant Professor of Music History, Education: B.A., University of California, Los Angles, 1971; M.A., U.C.L.A., 1992; Ph.D., U.C.L.A., 1997. At Cedarville since 2009.

David Matson, Professor Emeritus of Music History. Education: B.A., Cedarville University, 1960; graduate study, State College of Iowa, 1962-63; M.A., The Ohio State University, 1968; Ph.D., The Ohio State University, 1978. At Cedarville since 1965.

Adjunct Faculty

- Lori Akins, flute
- Judy Bede, piano pedagogy
- Janelle Criner, voice
- Sheridan Currie, viola Jackie Davis, harp
- Mary Davis-Fetherston, cello
- Michael DiCuirci, Jr., tuba and bass guitar
- Trudy Faber, organ
 - John Filbrun, guitar
- Todd Fitter, horn
- Bruce Grimes, sculpture, ceramics

- Lisa Grove, oboe
- Amy Hutchison, piano
- Chet Jenkins, saxophone
- Greg Jones, guitar
- Michael LaMattina, percussion
- Andrew Millat, trombone
- Andrew Millat, trombone
- Lawrence Pitzer, guitar
- Daniel Sachs, piano

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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:

- 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.
- 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.
- Demonstrate an understanding of and ability for developing, organizing, and administrating a church music teaching and training program for evangelical churches.

Students pursuing this major must complete the general education core.

The following requirements involve 75 semester hours:

Proficiencies
Piano0-4
CLMU-1810 Piano Class I 0-2
CLMU-1820 Piano Class II 0-2
THMU-1010 Introduction to Music Theory and Aural Skills0-2
THMU-1500 Introduction to Music Technology0-1
Music Foundation and Skills
CDMU-2600 Introduction to Conducting2
GMUS-1000 Music Philosophy and Aesthetics1
GMUS-1030 Recital and Program Attendance0
HLMU-2100 Jazz History: Music of the Multi-Culture
(or HLMU-3400 Global Music2)
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV
THMU-4130 Orchestration2
THMU-4140 Choral Arranging2
Select one of the following 2
CDMU-3610 Choral Conducting2
CDMU-3620 Instrumental Conducting2
Music Contexts9
HLMU-2310 Introduction to Music Literature
HLMU-3310, 3320 Music History I, II
Music Performance
PFMU-3100-3980 Large Ensemble
PLMU-1000-4800 Private Lessons
*PLMU-4900 Senior Recital1
Church Music
CHMU-2060 Music and the Arts in Worship
CHMU-2100 Church Music Seminar (every semester)0
CHMU-2200 Field Experience1 CHMU-2600 Music of the Church3
CHMU-3630 Administering Church Music I
CHMU-3640 Administering Church Music II
THMU-3500 Advanced Music Technology
*Capstone Course
Capsione Course

Church Music Ministries Major Curriculum Summary

General Education Requirements	49-57
Church Music Ministries Major Requirements	
Electives	0-4
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Church Music Ministries

First year:

This year.	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
CHMU-2100 Church Music Seminar (every semester)	0
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	3
GMUS-1000 Music Philosophy and Aesthetics	1
GMUS-1030 Recital and Program Attendance (both semesters)	0
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
PFMU-XXXX Ensemble Performance	2
PLMU-XXXX Private Lessons	2
THMU-1210, 1220 Music Theory I, II	6
THMU-1310, 1320 Aural Skills I, II	4
Physical Education Activity Elective	1
Total	. 32

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
CDMU-2600 Introduction to Conducting	2
CHMU-2100 Church Music Seminar (every semester)	0
CHMU-2060 Music and the Arts in Worship	3
CHMU-2200 Field Experience	1
CHMU-3630 Administering Church Music I	3
GMUS-1030 Recital and Program Attendance (both semesters)	0
HLMU-2100 Jazz History: Music of the Multi-Culture	2
(or HLMU-3400 Global Music	2)
HLMU-2310 Introduction to Music Literature	3
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	2
THMU-2210, 2220 Music Theory III, IV	6
THMU-2310, 2320 Aural Skills III, IV	4
Total	32

Third year:

, ma jean	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
CDMU-3620 Choral Conducting	2
(or CDMU-3610 Instrumental Conducting	2)
CHMU-2100 Church Music Seminar (every semester)	Ó
CHMU-2600 Music of the Church	3
CHMU-3640 Administering Church Music II	3
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1000 Foundations of Social Science	3
HLMU-3310, 3320 Music History I, II	6
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	2
THMU-3500 Advanced Music Technology	2
THMU-4140 Choral Arranging	2
Biology Elective	.3.5
History Elective	3
Literature Elective	3
Total	36.5
E	

Fourth year:

Total2	7.5
Elective	4
Social Science/Global Awareness Elective	3
Quantitative Elective	
Physical Science Elective	3.5
THMU-4130 Orchestration	2
PLMU-4900 Senior Recital	1
PLMU-XXXX Private Lessons	2
PFMU-XXXX Ensemble Performance	
GMUS-1030 Recital and Program Attendance (both semesters)	
CHMU-4900 Church Music Internship	
CHMU-2100 Church Music Seminar (every semester)	
	_

Composition

The **composition major** prepares the student for a career that involves composing, arranging, and editing music. This program also lays the foundation for graduate study in theory/composition.

Students pursuing this major must complete the general education core.

The following requirements involve 74 semester hours:

The following requirements involve 14 semester hours.
Proficiencies0-7
Piano0-4
CLMU-1810 Piano Class I 0-2
CLMU-1820 Piano Class II 0-2
THMU-1010 Introduction to Music Theory and Aural Skills 0-2
THMU-1500 Introduction to Music Technology0-1
Music Foundation and Skills27
CDMU-2600 Introduction to Conducting2
GMUS-1000 Music Philosophy and Aesthetics1
GMUS-1030 Recital and Program Attendance0
HLMU-2100 Jazz History: Music of the Multi-Culture2
(or HLMU-3400 Global Music2)
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV
Select one of the following2
CDMU-3610 Choral Conducting2
CDMU-3620 Instrumental Conducting2
Music Contexts9
HLMU-2310 Introduction to Music Literature
HLMU-3310, 3320 Music History I, II
Music Performance14
PFMU-3100-3980 Large Ensemble 4
PLMU-1000-4800 Private Lessons
PLMU-3900 Junior Recital1
*PLMU-4900 Senior Recital1
Music Composition
CLMU-2800 Introduction to Music Composition
CLMU-2850 Composition Seminar0
CLMU-2860 Composition Portfolio0
PLMU-2800, 3800, 4800 Lessons in Music Composition 10
THMU-3500 Advanced Music Technology
THMU-4100 Counterpoint
THMU-4110 Form and Analysis
THMU-4130 Orchestration
THMU-4140 Choral Arranging2 *Capstone Course
Capsione Course

Composition Major Curriculum Summary

Total (minimum, not including proficiency)	
Electives	0-5
Composition Major Requirements	74-81
General Education Requirements	49-57



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

Suggested Four-Year Curriculum for a **Major in Composition**

First year:

BEGE-1710 Christian Life and Thought	.3
BEGE-1720 Spiritual Formation	
CLMU-2850 Composition Seminar	
CLMU-2800 Introduction to Music Composition	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	
GMUS-1030 Recital and Program Attendance (both semesters)	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and the Christian Life	
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	
THMU-1210, 1220 Music Theory I, II	
THMU-1310, 1320 Aural Skills I, II	
Physical Education Activity Elective	
Total	

Second year:

BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
CDMU-2600 Introduction to Conducting2
CLMU-2850 Composition Seminar0
GMUS-1030 Recital and Program Attendance (both semesters)0
HLMU-2100 Jazz History: Music of the Multi-Culture2
(or HLMU-3400 Global Music2)
HLMU-2310 Introduction to Music Literature
PFMU-XXXX Ensemble Performance2
PLMU-2800 Private Composition2
PLMU-XXXX Private Lessons4
THMU-2210, 2220 Music Theory III, IV6
THMU-2310, 2320 Aural Skills III, IV
THMU-3500 Adv. Music Technology2
Total

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	
CDMU-3620 Instrumental Conducting	
(or CDMU-3610 Choral Conducting	
CLMU-2850 Composition Seminar	
GMUS-1030 Recital and Program Attendance (both semesters)	
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I, II	6
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	2
PLMU-3800 Private Composition	4
PLMU-3900 Junior Recital	
Biology Elective	3.5
History Elective	
Literature Elective	3
Total	.31.5

Fourth year:

Tourin year.	
CLMU-2850 Composition Seminar	.0
CLMU-2860 Composition Portfolio	.0
GMUS-1030 Recital and Program Attendance (both semesters)	.0
PFMU-XXXX Ensemble Performance	.0
PLMU-4800 Private Composition	.4
PLMU-4900 Senior Recital	.1
THMU-4100 Counterpoint	.3
THMU-4110 Form and Analysis	.3
THMU-4130 Orchestration	.2
THMU-4140 Choral Arranging	.2
Physical Science Elective	5.5
Quantitative Elective	
Social Science/Global Awareness Elective	.3
Elective	.5
Total	9.5

Graphic Design

The Bachelor of Arts 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 webpages. 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 freelance capacity.

Students may choose to combine the major with a specific minor that enhances their potential for a wide diversity of graphic design-related career options, including professional writing, marketing, business management, or electronic media.

The following requirements involve 63-67 semester hours: Graphic design major core courses

The following requirements involve 05-07 semester riours.
Graphic design major core courses 58-62
ART-1100 Introduction to Art3
ART-1210 Drawing I
ART-1230 Design I 3
ART-2220 Design II
ART-2250 Creative Photography3
ART-3310 Art History I 3
ART-3320 Art History II 3
ART-3330 Three-Dimensional Design
BUS-2100 Business Communication 3
EMTC-2601 Interactive Interface Design with Flash
GDES-1100 History of Graphic Design1
GDES-1150 Digital Image/Illustration3
GDES-1220 Digital Image/Photography
GDES-2100 Typography3
GDES-3110 Portfolio1
GDES-3220 Graphic Design I3
GDES-3230 Production Design I 3
GDES-3300 Web Design3
GDES-4220 Graphic Design II 3
GDES-4230 Production Design II
GDES-4900 Graphic Design Internship2-6
Electives selected from the following5
ART-1220 Drawing II 3
ART-3210 Painting I3
ART-3230 Watercolor 2
ART-3510 Introduction to Printmaking
ART-4400 20th Century Art 3
EMTC-2606 Introduction to Computer Animation for
Electronic Media3
EMTC-3630 Principles of Computer Animation
GDES-4300 Advanced Web Design3
TPC-2000 Production Tools for Technical Communication 3

Graphic Design Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	49-57
Graphic Design Major Requirements	
General Electives	4-16
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Graphic Design

First year:	
ART-1100 Introduction to Art	3
ART-1210 Drawing I	3
ART-1230 Design I	3
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
GDES-1100 History of Graphic Design	
GDES-1150 Digital Image/Illustration	
HUM-1400 Introduction to the Humanities	
Total	

Second year

3
3
3
3
3
3
3
3
3
1
1
3
2

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
BUS-2100 Business Communication	
EMTC-2601 Interactive Interface Design with Flash	
GDES-3220 Graphic Design I	
GDES-3300 Web Design	
History Elective	
Literature Elective	3
Quantitative Elective	
Total	
Fourth year:	
ART-1220 Drawing II	
GDES-3110 Portfolio	1
GDES-4220 Graphic Design II	3
GDES-4230 Production Design II	3
GDES-4900 Graphic Design Internship	2-9
Graphic Design Electives	
Physical Science Elective	



Keyboard Pedagogy The **keyboard pedagogy major** prepares students to teach piano. Professional certification may be obtained by completing these course requirements and applying for certification.

Students pursuing this major must complete the general education core.

The following requirements involve 75 semester hours:

The following requirements involve 75 semester hours.	
Proficiencies	0-7
Piano	
CLMU-1810 Piano Class I	
CLMU-1820 Piano Class II	0-2
THMU-1010 Introduction to Music Theory and Aural Skills.	0-2
THMU-1500 Introduction to Music Technology	0-1
Music Foundation and Skills	25
CDMU-2600 Introduction to Conducting	2
GMUS-1000 Music Philosophy and Aesthetics	1
GMUS-1030 Recital and Program Attendance	0
HLMU-2100 Jazz History: Music of the Multi-Culture	
or HLMU-3400 Global Music	
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV	
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV	
Music Contexts	9
HLMU-2310 Introduction to Music Literature	
HLMU-3310, 3320 Music History I, II	
Music Performance	19
PFMU-3100-3980 Large Ensemble	4
PLMU-1000-4800 Private Lessons	
*PLMU-4900 Senior Recital	1
Keyboard Pedagogy	
KPMU-2010, 2020 Keyboard Pedagogy I, II	
KPMU-3110, 3120, 4110, 4120 Directed Teaching I, II, III, I	V 4
KPMU-3150, 3160, 4150, 4160 Keyboard Pedagogy	
Seminar I, II, III, IV	8
THMU-3500 Advanced Music Technology	2
Approved Music Elective	2
*Capstone Course	

Keyboard Pedagogy Major Curriculum Summary

General Education Requirements	
Keyboard Pedagogy Major Requirements	
Elective	0-4
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Keyboard Pedagogy

First year:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	1
GMUS-1030 Recital and Program Attendance (both semesters)	0
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
PFMU-XXXX Ensemble Performance	2
PLMU-XXXX Private Lessons	4
THMU-1210, 1220 Music Theory I, II	6
THMU-1310, 1320 Aural Skills I, II	4
Physical Education Activity Elective	

Second year:

eeeena jean	
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)	
HLMU-2100 Jazz History: Music of the Multi-Culture	2
(or HLMU-3400 Global Music	2)
HLMU-2310 Introduction to Music Literature	
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	
Total	

Third year

milu year.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I, II	6
KPMU-3110, 3120 Directed Teaching I, II	2
KPMU-3150, 3160 Keyboard Pedagogy Seminar I, II	4
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	4
Biology Elective	3.5
History Elective	3
Literature Elective	
Total	32.5

Fourth year:

GMUS-1030 Recital and Program Attendance (both semesters)0
KPMU-4110, 4120 Directed Teaching III, IV	2
KPMU-4150, 4160 Keyboard Pedagogy Seminar III, IV	4
PFMU-XXXX Ensemble Performance	2
PLMU-4900 Senior Recital	1
PLMU-XXXX Private Lessons	2
THMU-3500 Advanced Music Technology	2
Music Elective	2
Physical Science Elective	3.5
Quantitative Elective	3
Social Science/Global Awareness Elective	3
Elective	4
Total	28.5

Music

The **Bachelor of Arts in music** is designed for students with a strong interest in music and other academic areas. It is ideal for musically talented students who plan to go to graduate programs that will accept a bachelor's degree in any academic major. Examples include law, international studies, and music therapy.

The general studies credits within this major allow students to add specialized courses from any other area.

Course requirements involve 56 semester hours including:
Proficiencies 0-7
Piano0-4
CLMU-1810 Piano Class I0-2
CLMU-1820 Piano Class II 0-2
THMU-1010 Introduction to Music Theory and Aural Skills0-2
THMU-1500 Introduction to Music Technology0-1
Music Foundation and Skills
GMUS-1000 Music Philosophy and Aesthetics1
GMUS-1030 Recital and Program Attendance0
THMU-1210, 1220, 2210 Music Theory I, II, III
THMU-1310, 1320, 2310 Aural Skills I, II, III
Music Contexts
HLMU-2310 Introduction to Music Literature
HLMU-3310, 3320 Music History I, II
Music Performance11
Recital Track
PFMU-3100-3980 Large Ensemble 2
PLMU-1000-4800 Private Lessons
PLMU-4900 Senior Recital 1
Project Track
PFMU-3100-3980 Large Ensemble
PLMU-1000-4800 Private Lessons
PLMU-3910 Junior Seminar 1
PLMU-4910 Senior Seminar1
*PLMU-4920 Senior Project1
*Capstone Course
Music Electives

Music Major Curriculum Summary

General Education Requirements	
Music Major Requirements	
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Music

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	
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-3100/3980 Large Ensemble	2
PLMU-1000/4800 Private Lessons	2
THMU-1210, 1220 Music Theory I, II	
THMU-1310, 1320 Aural Skills I, II	4
Physical Education Activity Elective	
Total	

Second year:

BEGE-2730 Old Testament Literature	.3
BEGE-2740 New Testament Literature	.3
GMUS-1030 Recital and Program Attendance (both semesters)	.0
HLMU-2310 Introduction to Music Literature	.3
PLMU-1000/4800 Private Lessons	.2
THMU-2210 Music Theory III	.3
THMU-2310 Aural Skills III	.2
Music Electives1	16
Total	32

Third year:

Inira year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1100 Politics and American Culture	
HLMU-3310, 3320 Music History I, II	
PLMU-3910 Junior Seminar	1
PLMU-1000/4800 Private Lessons	2
Biology Elective	3.5
History Elective	
Literature Elective	3
Music Electives	4
Electives	4
Total	33.5
Fourth voor	
Fourth year:	0
GMUS-1030 Recital and Program Attendance (both semesters) PLMU-1000/4800 Private Lessons	
PLMU-4910 Senior Seminar	
PLMU-4900 or 4920 Senior Project or Recital Physical Science Elective	I
Quantitative Elective	
Social Science/Global Awareness Elective Electives	
Total	30.5

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.

The following requirements involve 75 semester hours:

Proficiencies
Piano0-4
CLMU-1810 Piano Class I 0-2
CLMU-1820 Piano Class II 0-2
THMU-1010 Introduction to Music Theory and Aural Skills 0-2
THMU-1500 Introduction to Music Technology0-1
Music Foundation and Skills
CDMU-2600 Introduction to Conducting2
GMUS-1000 Music Philosophy and Aesthetics 1
GMUS-1030 Recital and Program Attendance0 HLMU-2100 Jazz History: Music of the Multi-Culture
HLMU-2100 Jazz History: Music of the Multi-Culture
(or HLMU-3400 Global Music
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV
THMU-4110 Form and Analysis
Select one of the following
CDMU-3610 Choral Conducting
CDMU-3620 Instrumental Conducting2
Music Contexts
HLMU-3310, 3320 Music History I, II
Music Performance
CLMU-2750 Performance Seminar0
CLMU-2760 Performance Portfolio0
PFMU-3100-3980 Large Ensemble
PLMU-1000-4800 Private Lessons (in major instrument) 14
PLMU-3900 Junior Recital
*PLMU-4900 Senior Recital1
Choose one concentration from the following14
Instrumental Concentration14
Instrumental Concentration
Instrumental Concentration
Instrumental Concentration
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 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 1 CLMU-2210 Brass Literature 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 1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 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 1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 1 CLMU-2230 String Literature 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 1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 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 1 CLMU-2210 Brass Literature 1 CLMU-2220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7
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 1 CLMU-2210 Brass Literature 1 CLMU-220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14
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 1 CLMU-2210 Brass Literature 1 CLMU-220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2
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 1 CLMU-2210 Brass Literature 1 CLMU-220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2300 Keyboard Literature 2 CLMU-2300 Keyboard Literature 6
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 1 CLMU-2210 Brass Literature 1 CLMU-220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3
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 1 CLMU-2210 Brass Literature 1 CLMU-220 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 KPMU-2020 Keyboard Pedagogy I 3
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2300 Keyboard Literature 3 KPMU-2010 Keyboard Pedagogy I 3 KPMU-2020 Keyboard Pedagogy I 3 Approved Electives 3
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2300 Keyboard Literature 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 KPMU-2020 Keyboard Pedagogy I 3 Approved Electives 3
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2300 Keyboard Literature 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-1170, 1180 Diction for Singers I, II 4
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 KPMU-2020 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-21170, 1180 Diction for Singers I, II 4 CLMU-2100 Gratorio Literature 2 CLMU-2120 Oratorio Literature 2
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-2110 Song Literature 2 CLMU-2110 Song Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2130 Opera Literature 2
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-2110 Song Literature 2 CLMU-2110 Song Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2130 Opera Literature 2
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 KPMU-2020 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-2110 Song Literature 2 CLMU-2100 ratorio Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2130 Opera Literature 2 PFMU-3850 Opera Ensemble (2 x 1 credit) 2 EDMU-3730 Voca
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 1 CLMU-2210 Brass Literature 1 CLMU-2200 Percussion Literature 1 CLMU-2230 String Literature 1 CLMU-2240 Woodwind Literature 1 Approved Electives 7 Piano Concentration 14 CLMU-2300 Keyboard Literature 2 CLMU-2310 Collaborative Piano (6 x 1 credit) 6 Select one of the following 3 KPMU-2010 Keyboard Pedagogy I 3 Approved Electives 3 Vocal Concentration 14 CLMU-2110 Song Literature 2 CLMU-2110 Song Literature 2 CLMU-2100 Oratorio Literature 2 CLMU-2130 Opera Literature 2

each language may be satisfied by satisfactory completion of two years of the same high school foreign language or one semester of college-level foreign language.) *Capstone Course

Performance Major Curriculum Summary

General Education Requirements	49-57
Performance Major Requirements	
Elective	0-4
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a **Major in Vocal Performance**

Thoryour.	
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	
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	
Physical Education Activity Elective	
Total	

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
CDMU-2600 Introduction to Conducting	2
CLMU-1170, 1180 Diction for Singers I, II	4
CLMU-2750 Performance Seminar	0
GMUS-1030 Recital and Program Attendance (both semesters)	0
HLMU-2100 Jazz History: Music of the Multi-Culture	2
(or HLMU-3400 Global Music	2)
HLMU-2310 Introduction to Music Literature	Ś
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	
Total	

Third vear:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	
CDMU-3620 Instrumental Conducting	2
(or CDMU-3610 Choral Conducting	2)
CLMU-2110 Song Literature	
CLMU-2750 Performance Seminar	
EDMU-3730 Vocal Pedagogy	2
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I, II	6
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	
PFMU-3850 Opera Ensemble	1
PLMU-3900 Junior Recital	1
Biology Elective	3.5
History Elective	3
Literature Elective	3
Total 3	4.5

Fourth year:	
CLMU-2120 Oratorio Literature	2
CLMU-2130 Opera Literature	2
PFMU-3850 Opera Ensemble	
CLMU-2750 Performance Seminar	0
CLMU-2760 Performance Portfolio	0
GMUS-1030 Recital and Program Attendance (both semesters)	0
PFMU-XXXX Ensemble Performance	2
PLMU-XXXX Private Lessons	4
PLMU-4900 Senior Recital	1
THMU-4110 Form and Analysis	3
Physical Science Elective	3.5
Quantitative Elective	3
Social Science/Global Awareness Elective	
Elective	4
Total	28.5

A complete description of the general education requirement

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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	
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	
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	
THMU-1310, 1320 Aural Skills I, II	4
Physical Education Activity Elective	1
Total	

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
CDMU-2600 Introduction to Conducting	2
CLMU-XXXX Instrumental Literature Elective	1
CLMU-2750 Performance Seminar	0
GMUS-1030 Recital and Program Attendance (both semesters)	0
HLMU-2100 Jazz History: Music of the Multi-Culture	2
(or HLMU-3400 Global Music	2)
HLMU-2310 Introduction to Music Literature	3
PFMU-XXXX Ensemble Performance	2
PLMU-XXXX Private Lessons	4
THMU-2210, 2220 Music Theory III, IV	6
THMU-2310, 2320 Aural Skills III, IV	4
Total	30

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
CDMU-3620 Instrumental Conducting	2
(or CDMU-3610 Choral Conducting	.2)
CLMU-2750 Performance Seminar	0
EDMU-3750 Instrumental Pedagogy	2
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I, II	6
PFMU-XXXX Ensemble Performance	0
PFMU-XXXX Chamber Music	2
PLMU-XXXX Private Lessons	4
PLMU-3900 Junior Recital	1
Biology Elective	3.5
History Elective	3
Literature Elective	3
Total	3.5

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	4
Total	. 32.5

n requirements is found on page 24.	
Suggested Four-Year Curriculum for a	
Major in Piano Performance	
First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
CLMU-2750 Performance Seminar	0
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
GMUS-1000 Music Philosophy and Aesthetics	
GMUS-1030 Recital and Program Attendance (both semesters)	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and the Christian Life	
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	
THMU-1210, 1220 Music Theory I, II	
THMU-1310, 1320 Aural Skills I, II	
Physical Education Activity Elective	
Second year:	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
CDMU-2600 Introduction to Conducting	
CLMU-2310 Collaborative Piano	
CLMU-2750 Performance Seminar	
GMUS-1030 Recital and Program Attendance (both semesters)	
HLMU-2100 Jazz History: Music of the Multi-Culture (or HLMU-3400 Global Music	
HLMU-2310 Introduction to Music Literature	(ے
KPMU-2010 or 2020 Keyboard Pedagogy I or II	
PFMU-XXXX Ensemble Performance	0
PLMU-XXXX Private Lessons	
THMU-2210, 2220 Music Theory III, IV	6
THMU-2310, 2320 Aural Skills III, IV	4
Total	

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	Ź
CLMU-2310 Collaborative Piano	2
CLMU-2750 Performance Seminar	0
GMUS-1030 Recital and Program Attendance (both semesters)	0
GSS-1100 Politics and American Culture	3
HLMU-3310, 3320 Music History I, II	6
PFMU-XXXX Ensemble Performance	
PLMU-XXXX Private Lessons	4
PLMU-3900 Junior Recital	1
Biology Elective	3.5
History Elective	3
Literature Elective	3
Total	33.5
Frontherese	
Fourth year:	~
CLMU-2310 Collaborative Piano	
CLMU-2750 Performance Seminar	0

CLMU-2760 Performance Portfolio.....0 GMUS-1030 Recital and Program Attendance (both semesters)......0 PFMU-XXXX Ensemble Performance2 PLMU-XXXX Private Lessons4 PLMU-4900 Senior Recital1 Elective4

Studio Art

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

The following requirements involve 62 semester hours:

Studio art major core courses	54
ART-1100 Introduction to Art	
ART-1210 Drawing I	3
ART-1220 Drawing II	3
ART-1230 Design I	
ART-2220 Design II	3
ART-3210 Painting I	3
ART-3220 Painting II	
ART-3310 Art History I	
ART-3320 Art History II	3
ART-3330 Three-Dimensional Design	3
ART-3410 Ceramics	3
ART-3510 Introduction to Printmaking	3
ART-3610 Sculpture	
ART-3710 Studio I	3
ART-4100 Studio II	3
ART-4200 Studio III	
*ART-4300 Art Exhibition	
ART-4400 20th Century Art	3
Electives selected from the following	
ART-2250 Creative Photography	3
ART-3230 Watercolor	2
ART-4440 Installation Art	3
BEPH-4260 Philosophy of Art	
BUS-2100 Business Communication	3
GDES-1100 History of Graphic Design	1
GDES-1150 Digital Image/Illustration	3
GDES-1220 Digital Image/Photography	3
GDES-2100 Typography	
GDES-3220 Graphic Design I	3
GDES-3300 Web Design	3
GDES-4220 Graphic Design II	
*Capstone Course	

Studio Art Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Studio Art Major Requirements	
General Electives	
Total (minimum, not including proficiency)	128

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

Suggested Four-Year Curriculum for a **Major in Studio Art**

First year: ART-1100 Introduction to Art ART-1210 Drawing I 3 ART-1220 Drawing II 3 ART-1230 Design I 3 BEGE-1710 Christian Life and Thought 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 BIG-1400 Composition 3 GBIO-1000 Principles of Biology
HUM-1400 Introduction to the Humanities
Total
Second year: ART-2220 Design II
Third year: ART-3410 Ceramics 3 ART-3220 Painting II 3 ART-3510 Intro to Print Making 3 ART-3610 Sculpture 3 BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 Art Elective 3 Bistory Elective 3 Quantitative Elective 3 Total 33
Fourth year: ART-4400 20th Century Art 3 ART-3750 Studio I 3 ART-4100 Studio II 3 ART-4300 Studio III 3 ART-4300 Art Exhibition 3 ART-4300 Art Exhibition 3 ART-4300 Art Exhibition 3 Art Electives 5 Physical Science Elective 3.5 Electives 9 Fotol 22 5



Worship

The **Bachelor of Arts in worship** degree is designed to help prepare students who are interested in careers in worship leadership and related fields. All students must take courses in music, theology, and worship-related fields such as theatre, electronic media, or youth ministry.

Elective hours can be used to complete minors or to double major. Students pursuing this major must complete the general education core.

	The following	requirements	involve 52-57	semester	hours:
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The following requirements involve 52-57 semester hours:
Music 10-15
Proficiencies (Voice and either piano or guitar)0-5
CLMU-1860 Voice Class 0-1
Piano0-4
CLMU-1810 Piano Class I0-2
CLMU-1820 Piano Class II0-2
OR
PLMU-1830 Contemporary Guitar 0-2
THMU-1010 Introduction to Music Theory and Aural Skills 2
THMU-1250 Contemporary Music Theory
PLMU-1000-4800 Private Lessons
PFMU-3100-3980 Large Ensembles
Worship18
CHMU-2060 Music and the Arts in Worship
WSHP-1010 Introduction to Worship Ministry
WSHP-1020 Introduction to Worship Technologies
WSHP-2200 Worship Field Experience
WSHP-2100 Worship Forum (every semester)
WSHP-3100 Worship Protein (every semester)
WSHP-4900 Worship Internship9
Theology 10
Theology
BEPT-3410 Discipleship
DEU1-3140 FSall115
PETH 2720 Spiritual Formation II
BETH-3720 Spiritual Formation II

that would be helpful in combination with worship studies. The specified fields are: business administration, Christian education, Christian ministries management, communication studies, electronic media, missions, music, philosophy and religion, preseminary, and theatre. Students must take at least six of these twelve hours outside of music.

Worship Major Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Worship Major Requirements	52-57
Elective	11-24
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Worship

First year: BEGE-1710 Christian Life and Thought
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 CHMU-2060 Music and the Arts in Worship 3 WSHP-2200 Worship Field Experience 1 GSS-1100 Politics and American Culture 3 PFMU-XXXX Ensemble Performance 2 WSHP-2100 Worship Forum (both semesters) 0 Quantitative Elective 3 Social Science/Global Awareness Elective 3 Elective 11 Total 32
Third year: BEGE-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 BEPT-3410 Discipleship 3 BETH-3730 Theology of Worship 3 PFMU-XXXX Ensemble Performance 0 WSHP-2100 Worship Forum (both semesters) 0 WSHP-3100 Worship Practicum 2 History Elective 3 Specified Electives 9 Electives 5 Total 32
Fourth year: BEOT-3140 Psalms

Teacher Education Licensure Program Bachelor of Music Education

The Bachelor of Music Education prepares students to teach vocal, instrumental, or general music in grades K-12 in public and Christian schools. Two tracks, choral and instrumental, are available. For information about teaching in Ohio and other states, see the department of education section of this catalog.

The following requirements involve 91-98 (choral track) or 92-99 (instrumental track) semester hours:

(instrumental track) semester hours:
Proficiencies 0-7
Piano0-4
CLMU-1810 Piano Class I 0-2
CLMU-1820 Piano Class II 0-2
THMU-1010 Introduction to Music Theory and Aural Skills 0-2
THMU-1500 Introduction to Music Technology0-1
Music Foundation and Skills
CDMU-2600 Introduction to Conducting2
GMUS-1000 Music Philosophy and Aesthetics 1
GMUS-2910 Sophomore Review-Multi-Age Music Ed0
HLMU-3400 Global Music
THMU-1210, 1220, 2210, 2220 Music Theory I, II, III, IV 12
THMU-1310, 1320, 2310, 2320 Aural Skills I, II, III, IV
Choral majors also add:
CDMU-3610 Choral Conducting
Instrumental majors also add:
CDMU-3620 Instrumental Conducting 2
CLMU-1860 Voice Class 1
Music Contexts9
HLMU-2310 Introduction to Music Literature
HLMU-3310, 3320 Music History I, II6
Music Performance11
Music Performance11 PFMU-3100-3980 Large Ensemble
PFMU-3100-3980 Large Ensemble2
Music Performance11PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1
PFMU-3100-3980 Large Ensemble2 PLMU-1000-4800 Private Lessons8
PFMU-3100-3980 Large Ensemble
PFMU-3100-3980 Large Ensemble
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 15 GMUS-1030 Recital and Program Attendance 0
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3 EDMU-3720 Music for Adolescent/Young Adult 3
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3 EDMU-3720 Music for Adolescent/Young Adult 3 Choral majors also add: 3
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3 EDMU-3720 Music for Adolescent/Young Adult 3 Choral majors also add: 2 CLMU-1170 or 1180 Diction for Singers I or II 2
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3 EDMU-3720 Music for Adolescent/Young Adult 3 Choral majors also add: 2 CLMU-1170 or 1180 Diction for Singers I or II 2 CDMU-3630 Choral Methods 2
PFMU-3100-3980 Large Ensemble 2 PLMU-1000-4800 Private Lessons 8 PLMU-4900 Senior Recital 1 Music Education 1 GMUS-1030 Recital and Program Attendance 0 EDMU-1000 MENC 0 EDMU-3710 Music for Early Childhood 3 EDMU-3720 Music for Adolescent/Young Adult 3 Choral majors also add: 2 CDMU-3630 Choral Methods 2 EDMU-2730 Wind and Percussion Methods 2
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1EDMU-3730 Vocal Pedagogy2
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2730 Wind and Percussion Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:2
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:3EDMU-3910 Instrumental Administration3
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1Music Education15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:3EDMU-3910 Instrumental Administration3Three of the following6
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1Music Education15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:3EDMU-3910 Instrumental Administration3Three of the following6EDMU-2870 Brass Methods2
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1Music Education15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2900 Guitar Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:3EDMU-3910 Instrumental Administration3Three of the following6
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2730 Wind and Percussion Methods1EDMU-3730 Vocal Pedagogy2Instrumental majors also add:3EDMU-3910 Instrumental Administration3Three of the following6EDMU-2910 Woodwind Methods2EDMU-2930 String Methods2EDMU-2930 String Methods2
PFMU-3100-3980 Large Ensemble2PLMU-1000-4800 Private Lessons8PLMU-4900 Senior Recital1 Music Education 15GMUS-1030 Recital and Program Attendance0EDMU-1000 MENC0EDMU-3710 Music for Early Childhood3EDMU-3720 Music for Adolescent/Young Adult3Choral majors also add:2CLMU-1170 or 1180 Diction for Singers I or II2CDMU-2730 Wind and Percussion Methods2EDMU-2730 Vocal Pedagogy2Instrumental majors also add:1EDMU-3910 Instrumental Administration3Three of the following6EDMU-2870 Brass Methods2EDMU-2910 Woodwind Methods2

Teacher Education29
EDSE-3900 Music Ed. Field Experience
EDSP-2000 Teaching Children with Exceptionalities
EDSP-2050 Special Education Field Experience
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian Schools0
EDUC-2000 Introduction to Teaching2
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience 1
EDUC-2500 Educational Psychology
EDUC-4000 Reading in the Content Area: Multi-Age
EDUC-4500 Philosophy of Education2
*EDUC-4900 Student Teaching and Seminar–Multi-Age 10
*Capstone Course

Music Education (Multi-Age)–Choral Major Curriculum Summary

General Education Requirements	49-57
Music Education-Choral Major Requirements	91-98
Total (minimum, not including proficiency)	140

Music Education (Multi-Age)–Instrumental Major Curriculum Summary

General Education Requirements	.49-57
Music Education-Instrumental Major Requirements	.92-99
Total (minimum, not including proficiency)	141



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

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

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	
EDMU-1000 MENC (both semesters)	0
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	
ENG-1400 Composition	
GMUS-1000 Music Philosophy and Aesthetics	
GMUS-1030 Recital and Program Attendance (both semesters)	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and the Christian Life PFMU-XXXX Ensemble Performance	1
PLMU-XXXX Ensemble Penormance PLMU-XXXX Private Lessons	2
THMU-1210, 1220 Music Theory I, II	
THMU-1210, 1220 Music Theory I, IT THMU-1310, 1320 Aural Skills I, II	
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:	
EDMLI-XXXX Instrumental Methods Electives	4
EDMU-XXXX Instrumental Methods Electives	
Instrumental Total	
Instrumental Total Second year:	37
Instrumental Total Second year: BEGE-2730 Old Testament Literature	37
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature	37 3
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting	37 3 3
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting EDMU-1000 MENC (both semesters)	37 3 2 0
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities	3 3 2 0 2
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting. EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities EDSP-2050 Special Education Field Experience	37 3 2 0 2 1
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting. EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities. EDSP-2050 Special Education Field Experience EDUC-2000 Introduction to Teaching	37 3 2 0 2 1 2
Instrumental Total	3 3 2 0 2 1 2 1
Instrumental Total	3 3 2 0 2 1 2 1 2
Instrumental Total	3 3 2 0 2 1 2 1 2 3
Instrumental Total	37 3 2 0 2 1 2 1 2 1 2 3 0
Instrumental Total	3 3 2 0 2 0 2 1 2 1 2 1 3 0 0
Instrumental Total	37 3 0 0 2 1 2 1 2 1 2 3 0 0 0 0
Instrumental Total	37 3 2 0 2 1 2 1 2 3 0 0 2 3
Instrumental Total	37 3 2 0 2 1 2 1 2 3 0 2 3 0
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities EDSP-2050 Special Education Field Experience EDUC-2000 Introduction to Teaching EDUC-2000 Introduction to Teaching EDUC-2200 Multicultural Field Experience EDUC-2100 Technology in the Classroom EDUC-2100 Technology in the Classroom EDUC-2500 Educational Psychology GMUS-1030 Recital and Program Attendance (both semesters) GMUS-2910 Sophomore Review, Multi-Age Music CD HLMU-2310 Introduction to Music Literature PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons	37 3 2 0 2 1 2 1 2 1 2 3 0 2 3 0 2 3 3
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting. EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities EDSP-2050 Special Education Field Experience EDUC-2000 Introduction to Teaching EDUC-2000 Introduction to Teaching EDUC-2200 Multicultural Field Experience EDUC-2100 Technology in the Classroom EDUC-2500 Educational Psychology GMUS-1030 Recital and Program Attendance (both semesters) GMUS-2910 Sophomore Review, Multi-Age Music CD HLMU-3310 Introduction to Music Literature PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons THMU-2210, 2220 Music Theory III, IV	37 3 2 0 2 0 2 1 2 0 2 0 0 2 3 0 2 3 0 2 3 3
Instrumental Total Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CDMU-2600 Introduction to Conducting EDMU-1000 MENC (both semesters) EDSP-2000 Teaching Children with Exceptionalities EDSP-2050 Special Education Field Experience EDUC-2000 Introduction to Teaching EDUC-2000 Introduction to Teaching EDUC-2200 Multicultural Field Experience EDUC-2100 Technology in the Classroom EDUC-2100 Technology in the Classroom EDUC-2500 Educational Psychology GMUS-1030 Recital and Program Attendance (both semesters) GMUS-2910 Sophomore Review, Multi-Age Music CD HLMU-2310 Introduction to Music Literature PFMU-XXXX Ensemble Performance PLMU-XXXX Private Lessons	37 3 2 0 2 0 2 1 2 1 2 0 2 3 0 2 3 0 2 3 3 3 3 3 3 3 3 3 3

Third year: BEGE-3750 Christian Worldview Development
Choral Majors Add: CDMU-3610 Choral Conducting
Instrumental Majors Add: CDMU-3620 Instrumental Conducting2 EDMU-3910 Instrumental Administration3 Instrumental Total
Summer: EDUC-4000 Reading in the Content Area: Multi-Age
Fourth year: EDMU-1000 MENC (both semesters) 0 EDUC-4500 Philosophy of Education 2 EDUC-4900 Student Teaching and Seminar: Multi-Age 10-12 GMUS-1030 Recital and Program Attendance (both semesters) 0 PFMU-XXXX Ensemble Performance 0 PLMU-XXXX Private Lessons 2 PLMU-4900 Senior Recital 1 Physical Science Elective 3.5 Quantitative Elective 3 Social Science Elective 3
Choral Majors Add: EDMU-2730 Wind and Percussion Methods2 EDMU-3730 Vocal Pedagogy2 Choral Total
Instrumental Majors Add: CLMU-1860 Voice Class



School of Humanities

Minors

Studio Art Minor

The **studio art minor** provides an opportunity for students with aptitude in the visual arts to receive formal instruction in art. In addition to skill-based instruction, special attention is given to building a philosophical and historical understanding of art from a scriptural perspective. It is suggested that students who minor in art begin the program no later than the sophomore year. Course requirements involve 17-18 semester hours, including 15 hours of art core and 2-3 hours of an art elective.

Art Core	15
ART-1100 Introduction to Art	3
ART-1210 Drawing I	3
ART-2210 Design I	3
ART-3210 Painting I	3
ART-3330 Three-Dimensional Design	
Electives selected from the following	2-3
ART-1220 Drawing II	3
ART-2220 Design II	
ART-2250 Creative Photography	
ART-3220 Painting II	3
ART-3230 Watercolor	
ART-3410 Ceramics	3
ART-3510 Introduction to Printmaking	3
ART-3610 Sculpture	

Church Music Minor

The **church music minor** provides students interested in working as church musicians with the basic tools needed to function in the field. Students who minor in church music should begin the program no later than their sophomore year.

Course requirements involve 20 semester hours, including 14	
hours of music core and 6 hours of church music courses.	
Music Core14	ļ
CDMU-2600 Introduction to Conducting2	
GMUS-1030 Recital and Program Attendance (2 semesters)0	
PFMU-3100-3980 Ensemble (at least 2 semesters)0	
PLMU-1000-4800 Private Lessons	
*THMU-1210,1220 Music Theory I, II6	
*THMU-1310, 1320 Aural Skills I, II	
Church Music Courses6	j
Select from the following	
CHMU-2060 Music and the Arts in Worship	
CHMU-3640 Administering Church Music II	
Select one of the following0-3	
CHMU-2600 Music of the Church	
CHMU-3630 Administering Church Music I	
*Students in this minor are required to take these classes prior to private lessons	

*Students in this minor are required to take these classes prior to private lessons.



Creative Web Design Minor

The **creative web design minor** is a value-added program that provides students with web design skills to compliment their chosen major or fields of study. Course requirements involve 19 semester hours.

Semester nouis.	
Creative Web Design Core16	
ART-2250 Creative Photography	
(or JOUR-4610 Photojournalism	
GDES-1220 Digital Image/Photography	
*(or TPC-2000 Production Tools for Technical	
Communication	
GDES/EMTC 2601 Interactive Interface Design with Flash3	
GDES-3300 Web Design	
GDES-4300 Advanced Web Design	
GDES-4310 Digital Portfolio1	
Electives selected from the following	
GDES-1300 Graphic Design for Non-Majors	
GDES-3220 Graphic Design I	
*This course requires pre-requisites in the journalism major	

Graphic Design Minor

The **graphic design minor** gives students who have an interest in the advertising and marketing aspects of art a foundational understanding of this important profession. The program includes coursework in both manual and computer-assisted art. It is suggested that students who minor in graphic design begin the program no later than their sophomore year. Course requirements involve 22 semester hours.

Graphic Design Core19
ART-1100 Introduction to Art
ART-1210 Drawing I
ART-1230 Design I 3
GDES-1100 History of Graphic Design1
GDES-1150 Digital Image/Illustration
GDES-2100 Typography
GDES-3220 Graphic Design I 3
Electives selected from the following
ART-2250 Creative Photography3
ART-2250 Creative Photography
EMTC-2601 Interactive Interface Design with Flash

Music Minor

The **music minor** allows students with interests and abilities in music to build upon this background through formal music instruction. Students who minor in music should begin the program no later than their sophomore year.

Course requirements involve 16 semester hours.	
CDMU-2600 Introduction to Conducting	.2
GMUS-1030 Recital and Program Attendance (2 semesters)	.0
HUM-2430 Enjoyment of Music	.3
PFMU-3100-3980 Large Ensemble	.2
PLMU-1000-4800 Private Lessons	
*THMU-1010 Introduction to Music Theory	.2
*THMU-1210 Music Theory I	.3
*THMU-1310 Aural Skills I	
*Students in this minor are required to take these classes prior to private lessons.	

Department of **Nursing**

Mission Statement

As a Christ-centered learning community, the Cedarville University Department of Nursing is dedicated to influencing the profession of nursing for Jesus Christ, domestically and globally. In this environment, we contribute to the body of nursing knowledge, provide leadership in nursing and health care arenas, and produce graduates who are grounded in biblical truth and demonstrate mastery in four primary areas: care, culture, godly living, and information management.

Accreditation and Licensure

National

The department of nursing program is accredited by the Commission on Collegiate Nursing Education.

State

The department of nursing has full approval by the Ohio Board of Regents and the Ohio Board of Nursing.

Registration

Graduates are eligible for admission to the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse in any state.

Personal Requirements

Students who wish to apply for admission to Cedarville University and major in nursing need a strong commitment to leading a godly lifestyle and to learning ways to use nursing as a ministry for Christ. A college preparatory curriculum including four years of both mathematics and science (algebra, biology, and chemistry are required) provides the best academic preparation for the nursing major. An ACT composite score of 24 (or SAT composite of 1100) or greater is required.

Department Requirements

Progression 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 on a competitive basis:

- 1. Earn a cumulative grade point average of 3.0 or higher. Students with a GPA of 2.8-2.99 will be admitted on probation.
- 2. Earn a "C-" or above in all required courses.
- 3. Write and have approved a statement of career goals.
- 4. Provide a recommendation from the respective academic advisor.
- 5. Provide appropriate health information.
- 6. Pay an application fee (\$25 non-refundable).
- 7. Provide evidence of liability insurance (\$1 million/\$3 million limits).
- 8. Obtain current certification in cardiopulmonary resuscitation (CPR).
- 9. Valid "No Record" FBI criminal background check including fingerprinting.
- 10. Demonstrate computer literacy.
- 11. Demonstrate a level of health consistent with safe nursing practice.
- 12. Complete required prerequisite courses prior to enrollment in clinical nursing courses. (Students may have no more than three outstanding general education or Bible courses prior to beginning nursing clinical courses.)
- 13. Have a plan for provision of own transportation to clinical experiences.

Retention Requirements

- 1. Earn a grade of "C-" or above in all nursing courses.
- 2. Maintain a cumulative GPA of 2.5 or higher at the end of each semester junior and senior year.
- 3. Maintain current CPR certification and professional liability insurance.
- 4. Attain clinical objectives.
- 5. Receive a positive recommendation by the faculty of the department of nursing.

Graduation Requirements

- 1. Earn a grade of "C-" or above in all nursing courses.
- 2. Register for admission to the examination for state licensure as a registered nurse.
- 3. Earn a passing score on a national standardized nursing examination selected by the faculty and taken during the spring semester of the senior year.
- 4. Receive a positive recommendation by the faculty of the department of nursing.
- 5. Meet University requirements for graduation.

Financial Aid

Federal Nursing Student Loans are available to qualified students who have been admitted to the nursing program. Some additional scholarships are available through our endowments although primarily offered to upperclassmen accepted into the department of nursing clinical courses. Information is available in the department office, the financial aid office, and on the financial aid website at **www.cedarville.edu/finaid**.

Programs of Study

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

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
- 24-Station Multi-Media Lab Equipped with a variety of software programs to supplement out-of-class student learning

Career Opportunities

Graduate and professional schools welcome Cedarville graduates. Nursing graduates obtain positions in the following settings: medical centers, public health departments, home health agencies, clinics, nursing homes, schools, work sites, mental health facilities, and mission fields.

Faculty

Janet Conway, *Chair;* Senior Professor of Nursing. *Education:* Diploma, Hackley Hospital School of Nursing, 1965; B.S.N., Coe College, 1976; M.S., University of Arizona, 1979; Specialist in Clinical Nursing, Indiana University, 1982; Ph.D., University of Texas, 1988. At Cedarville since 1982.

Lois Baker, Senior 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**, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1986; M.S.N. University of Phoenix, 2006. At Cedarville since 1997.

Connie B. Ford, Assistant Professor of Nursing. *Education:* Diploma, Bethesda Hospital School of Nursing, 1977; B.S.N., Xavier University, 1989; M.S., Wright State University, 1992. At Cedarville since 1993.

Karen Callan, Instructor of Nursing (PT). Education: B.S.N., Cedarville University, 1985. At Cedarville since 1992.
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.

Kimberly Higginbotham, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1993; M.S.N./P.N.P., University of Virginia, 2000. At Cedarville since 2000. **Chu-Yu Huang**, Associate 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.

Randall Johnson, Professor of Nursing. *Education:* B.S.N., Cedarville University, 1985; M.S.N., University of Pennsylvania, 1996; Ph.D., University of Central Florida, 2007. At Cedarville since 2009.

Carrie Keib, Assistant Professor of Nursing. *Education:* B.S.N., Liberty University, 1999; M.S., Adult Health Nurse Practitioner, The Ohio State University, 2005; Ph.D., The Ohio State University, 2007. At Cedarville since 2007.

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.

Suzanne Lefever, Assistant Professor of Nursing (FT). *Education:* B.S.N., Goshen College, 1983; M.S., SUNY-Stony Brook Neonatal Nurse Practitioner Program, 2004. At Cedarville since 2001.

Yvonne Lusk, Instructor of Nursing. *Education:* B.S.N., University of Cincinnati, 1987. M.S., in Nursing Education (candidate status), Indiana Wesleyan University. At Cedarville since 2007.
Denise Martin, Instructor of Nursing (PT). *Education:* B.S.N., Cedarville University, 1987. At Cedarville since 2005.
Janet Neal, Instructor of Nursing. *Education:* B.S.N., Austin Peay State University, 1983. M.S., in Nursing Education (candidate status), Indiana Wesleyan University. At Cedarville since 2008.
Rachel Parrill, Assistant Professor of Nursing. *Education:* B.S.N., Cedarville University, 1992; M.S., Wright State University, 2006. At Cedarville since 2005.

Susan Salladay, Professor of Nursing. *Education:* B.A., Whitman College, 1964; M.A., P.h.D., Boston College, 1974; A.S., College of Saint Mary. 1984. At Cedarville since 2005.

Sandy Shortt, Wellness Center Coordinator (PT). *Education:* B.S.Ed., Central Michigan University, 1976; M.S.Ed., Virginia Polytechnic Institute and State University, 1978; Ed.D, Virginia Polytechnic Institute and State University, 1982. Certified Health Education Specialist, 2000; At Cedarville since 1997. Judith Shrubsole, Associate Professor of Nursing. *Education:*

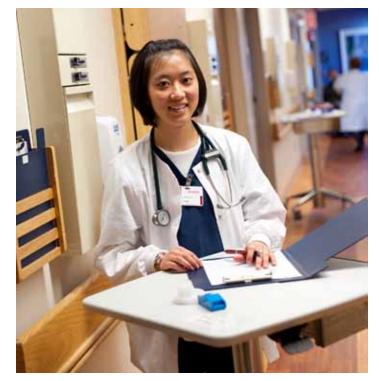
Diploma, Hamilton Civic Hospital School of Nursing, 1965; Diploma, University of Western Ontario, 1967; B.Sc.N., University of Western Ontario, 1968; M.S., D'Youville College, 1992; Ph.D., Rush University, 2003. At Cedarville since 1992.

Marsha Swinehart, Assistant Professor of Nursing. *Education:* Diploma, Jewish Hospital School of Nursing, 1973; B.S.N. and Public Health Certification, Ohio University, 1997; M.S.N., Capital University, 2005. At Cedarville since 2008.

Rhonda Smith, Instructor of Nursing (PT). *Education:* B.S.N., Lynchburg College, 1988. At Cedarville since 2000.

Lisa Trefz, Assistant Professor of Nursing (PT). *Education:* Diploma in Nursing, Miami Valley Hospital School of Nursing, 1976; B.S.N., Wright State University, 1982; M.S.N., University of Cincinnati, 1999. At Cedarville since 1994.

Amy Voris, Assistant Professor of Nursing. *Education:* B.S.N., University of Cincinnati, 1981; M.S., Wright State University, 2002. At Cedarville since 2005.



Clinical Activity Information

Facilities

All clinical activity is conducted under the supervision of the Cedarville University Department of Nursing faculty. The program utilizes a number of community resources including public and private, large and small hospitals, health departments, mental health services, rehabilitation centers, clinics, homes for the aged, and physicians' offices.

Students are responsible for transportation to and from clinical settings. Car pools are encouraged to help defray transportation costs.

Health Information

Prior to clinical nursing courses, students must provide documentation of:

- 1. Complete physical examination.
- 2. Rubella and Rubeola immunity.
- 3. Negative Mantoux test. Clinical agencies require a negative chest x-ray in the event of a positive TB skin test.
- 4. History of chicken pox or results of a Varicella Titer.
- 5. Childhood immunizations.
- 6. Tetanus booster (within past 5 years).
- 7. Hepatitis B vaccine series or signed declination.
- 8. Hep Vax (Hepatitis A) vaccine recommended.

Uniforms and Equipment

Each student must secure uniforms and photo identification prior to the first clinical experience. Students must purchase books and equipment needed in clinical settings.









Nursing Course Requirements In addition to completing the general education requirements,

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-2210 Microbiology	4
CHEM-1000 Principles of Chemistry	5
GBIO-2010 Human Anatomy and Physiology	
GBIO-2020 Advanced Clinical Physiology	4
HIST-3750 Social Movements	3
PYCH-1600 General Psychology	3
PYCH-2610 Statistics	3

The nursing major requirements involve 74 semester hours including:

NSG-1000 Member of Nursing Profession	2
NSG-1050 Health Promotion and Wellness	
NSG-2000 Nursing Roles in Disease Prevention	4
NSG-2050 Nursing Roles in Disease Management	
NSG-2060 Clinical Immersion	3
NSG-3000 Care of III Adults	6
NSG-3010 Nursing Care of Women and Newborns	6
NSG-3030 Care of Children	.`6
NSG-3050 Behavioral and Mental Health Care	6
NSG-3110 Pharmacology	3
NSG-3930 Nursing Research and Evidence-Based Practice	3
NSG-4000 Care of Populations	6
NSG-4020 Nursing Leadership/Management	6
NSG-4030 Complex Care Management	
*NSG-4060 Transition Into Practice	
NSG-4950 Seminar in Nursing	
*Capstone Course	

Nursing Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Nursing Major Requirements	
Required Cognates	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Nursing

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
CHEM-1000 Principles of Chemistry	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	3
GBIO-2010 Human Anatomy and Physiology	
HIST-3750 Social Movements	3
NSG-1000 Member of Nursing Profession	2
NSG-1050 Health Promotion and Wellness	4
PEF-1990 Physical Activity and the Christian Life	1
PYCH-1600 General Psychology	3
Total	34

Second year:

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	
BIO-2210 Microbiology	4
GBIO-2020 Advanced Clinical Physiology	4
GSS-1100 Politics and American Culture	3
NSG-2000 Nursing Roles in Disease Prevention	4
NSG-2050 Nursing Roles in Disease Management	4
NSG-3110 Pharmacology	3
PYCH-2610 Statistics	3
Physical Education Activity Elective	1
Total	
Summer: NSG-2060 Clinical Immersion	3
Third year: BEGE-3750 Christian Worldview Development	
BEGE-3760 Christian Worldview Integration	2
NSG-3000 Care of III Adults	

DEGE-3700 CHIISHAIT WOHLVIEW INtegration	·····
NSG-3000 Care of III Adults	6
NSG-3010 Nursing Care of Women and Newborns	
NSG-3030 Care of Children	6
NSG-3050 Behavioral and Mental Health Care	6
NSG-3930 Nursing Research and Evidence-Based Practice.	3
Literature Elective	3
_ · · ·	
Total	34
Total Fourth year:	
Fourth year:	3
Fourth year: HUM-1400 Introduction to the Humanities NSG-4000 Care of Populations	3
Fourth year: HUM-1400 Introduction to the Humanities	3 6 6

Minor

Cross-Cultural Nursing Minor

 BEPT-2400 Personal Evangelism
 3

 BEPT-3410 Discipleship
 3

 BEPT-3450 Contemporary World Missions
 3

 BEPT-3510 Introduction to Urban Ministry
 3

 NSG-2200 Cross-Cultural Interactions
 1

 *NSG-4200 Culture and Health
 3

 Credits selected from
 3

 NSG-3200 Cross-Cultural Nursing Internship
 1-3

 NSG-4800 Independent Study
 1-2

14	4.24 C





School of **Pharmacy**



School of Pharmacy

Responding to the national need for pharmacists, believing that pharmacy complements the University's other academic strengths, and sensing God's leading to embrace the opportunity to engage healthcare through a Christ-centered pharmacy program, the trustees of Cedarville University commissioned the establishment of the School of Pharmacy in 2007. The Pharmacy Advisory Council, comprised of pharmacy and health care professionals from around the nation, was formed to provide guidance for the development of the program. Additionally, a national search for the founding dean was launched, culminating in December 2008 with the announcement of Dr. Marc Sweeney as dean.

Through the School of Pharmacy the University is developing a program which, pending appropriate approvals from the Ohio Board of Regents, the Higher Learning Commission of the North Central Association of Colleges and Schools

(www.ncahlc.org), and the Accreditation Council for Pharmacy

Education, will culminate in the doctorate of pharmacy (Pharm.D.), the credential now required for pharmacy licensure in the United States. The seven-year curriculum consists of two components, a 3-year pre-pharmacy portion and a 4-year graduate-level, pharmacy portion.

The pre-pharmacy curriculum compares closely to course requirements for other majors pursued by students entering health professions, including the Bachelor of Arts or Bachelor of Science degrees with a major in biology and the Bachelor of Arts degree with a major in chemistry. Though designed specifically to meet the requirements of the Cedarville University School of Pharmacy, the pre-pharmacy curriculum will prepare students for admission to any pharmacy program. Students interested in pursuing admission to other schools of pharmacy should work closely with pharmacy faculty advisors to insure that they are meeting any specific requirements and deadlines required by those schools.

Admissions Requirements

Cedarville University utilizes a direct entry approach for admission to the School of Pharmacy. This means that students compete for admission as incoming new students to the prepharmacy curriculum. If they gain admission as new students, their admission to the final four years of graduate level education is guaranteed, provided they meet the requirements to continue in the program. This approach enables students to focus on enjoying their undergraduate education as pre-pharmacy students, not competing for admission to graduate school.

Admission to the School of Pharmacy involves two steps. First, students must obtain admission to the University. Second, students must compete for admission to the School of Pharmacy. That competition begins with an invitation by the Pharmacy Admissions Committee to apply for admission to the School of Pharmacy. Those invitations are based upon the following criteria:

- 1. Declared interest in pharmacy
- 2. High school curriculum
- 3. Cumulative high school grade point average
- 4. Class rank

5. ACT composite and subscores of at least 23 (or SAT subscores of at least 530)

The Pharmacy Admissions Committee begins inviting students to apply by the first week of December. The application process involves submitting an essay and scheduling an interview with the Pharmacy Admissions Committee. Final selection is based upon performance in the interview and on the essay.

To continue as a pre-pharmacy student and move into the graduate-level, pharmacy portion of the curriculum, students must meet the following requirements:

1. Earn a cumulative grade point average of at least 3.25 by the end of the freshman year.

2. Earn a cumulative grade point average of at least 3.30 at the end of each of the following years of the pre-pharmacy program.

3. Complete all of the curricular requirements (including the general education language requirements) of the pre-pharmacy program.

4. Obtain a PCAT score (Pharmacy College Admissions Test) at the 50th percentile or above.

5. Satisfy the professional accreditation requirement of a successful professional interview with the faculty of the School of Pharmacy.



Career Opportunities

Students who graduate from an accredited school or college of pharmacy and obtain licensure as pharmacists may consider some of the following options:

- Clinical specialist in cardiology, oncology, nutrition, infectious disease, diabetes mellitus, psychiatry, etc.
- Community pharmacist
- Compounding pharmacist
- Consultant pharmacist in geriatrics, palliative care, etc.
- Hospital pharmacist
- Long-term care pharmacist
- Managed care pharmacist
- Nuclear pharmacist
- Pediatrics pharmacist

Faculty

Marc Sweeney, Dean, School of Pharmacy, Professor of Pharmacy Practice. *Education:* B.S., Pharm., Ohio Northern University, 1993; Pharm.D., The Ohio State University, 1997; M.Div., Southwest Bible College and Seminary, 2006. At Cedarville since 2008.

Jeffrey Lewis, Assistant Dean, School of Pharmacy, Associate Professor of Pharmacy Practice. *Education:* B.S., Pharm., Ohio Northern University, 1986; Pharm.D., University of Cincinnati, 1988, MACM, Malone University, 2004. At Cedarville since 2009. **Douglas Anderson**, Chair, Department of Pharmacy Practice, Professor of Pharmacy Practice. *Education:* B.S., Pharmacy, University of Oklahoma, 1988; Pharm.D., University of Oklahoma, 1992. At Cedarville since 2009.

Elisha Injeti, Director of Research and Development, Assistant Professor of Pharmacology. *Education:* B.S., Pharmaceutical Sciences, Andhra University, 1995; M.S., Pharmaceutical Sciences, Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; Ph.D., Pharmacology, Loma Linda University, 2008.



Prepharmacy

Cedarville University is in the process of developing and obtaining accreditation for a School of Pharmacy which will culminate in the degree of Doctor of Pharmacy. Our **prepharmacy curriculum** is designed as a three-year curriculum preparing students for entrance to our School of Pharmacy. Students admitted to the prepharmacy program who meet required standards each of the three years and pass other entrance requirements being developed for the School of Pharmacy are guaranteed admission to Cedarville's four-year professional program. Entrance to the prepharmacy program is competitive and requires completion of special admissions processes including an on-campus interview. It is recommended that students apply to the University for admission into the prepharmacy program by the end of November prior to their entrance to the University.

The prepharmacy requirements listed below fit well with several existing degree programs offered by the science and mathematics department. These include the Bachelor of Science degree with a major in biology, the Bachelor of Arts degree with a major in biology, and the Bachelor of Arts degree with a major in chemistry.

Cedarville's development of a School of Pharmacy and offering of the Doctor of Pharmacy degree is contingent upon receipt of accreditation by the Accreditation Council for Pharmacy Education; the Ohio Board of Regents; and The Higher Learning Commission of the North Central Association of Colleges and Schools (www.ncahlc.org).

The following 100-hour program should be included in the three vears the prepharmacy student attends Cedarville.

Biblical Education	16
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation3	
BEGE-2730 Old Testament Literature 3	
BEGE-2740 New Testament Literature	
BEGE-3750 Christian Worldview Development	
BEGE-3760 Christian Worldview Integration2	
Communication	.6
COM-1100 Fundamentals of Speech	
ENG-1400 Composition3	
Humanities	.6
HUM-1400 Intro. to the Humanities	
Literature Elective	
Physical Education	.2
PEF-1990 Physical Activity and the Christian Life1	
Physical Education Activity Elective1	
Science and Mathematics	49
BIO-1110 Introduction to Biology	49
BIO-1110 Introduction to Biology	49
BIO-1110 Introduction to Biology	49
BIO-1110 Introduction to Biology4BIO-2210 Microbiology4BIO-2250 Cell Biology4BIO-3450, 3460 Human Structure and Function I, II7	19
BIO-1110 Introduction to Biology4BIO-2210 Microbiology4BIO-2250 Cell Biology4BIO-3450, 3460 Human Structure and Function I, II7BIO-4350 Immunology4	19
BIO-1110 Introduction to Biology	19
BIO-1110 Introduction to Biology4BIO-2210 Microbiology4BIO-2250 Cell Biology4BIO-3450, 3460 Human Structure and Function I, II7BIO-4350 Immunology4CHEM-1110, 1120 General Chemistry I, II8CHEM-3510 Organic Chemistry I5	49
BIO-1110 Introduction to Biology4BIO-2210 Microbiology4BIO-2250 Cell Biology4BIO-3450, 3460 Human Structure and Function I, II7BIO-4350 Immunology4CHEM-1110, 1120 General Chemistry I, II8CHEM-3510 Organic Chemistry I5CHEM-3525 Organic Chemistry II for Biologists4	19
BIO-1110 Introduction to Biology	19
BIO-1110 Introduction to Biology	_

Prepharmacy12
PHAR-1011 Profession of Pharmacy-History and Issues1
PHAR-1012 Profession of Pharmacy-History and Issues 1
PHAR-2013 Profession of Pharmacy-Careers 1
PHAR-2014 Profession of Pharmacy-Careers 1
PHAR-2100 Biostatistics
PHAR-3000 Pharmacy Activity 1-2
PHAR-3200 Pharmacy Calculations2

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

Suggested Three-Year Curriculum for Pre-Pharmacy

First year:BEGE-1710 Christian Life and Thought3BEGE-1720 Spiritual Formation3BIO-1110 Introduction to Biology4CHEM-1110, 1120 General Chemistry I, II8COM-1100 Fundamentals of Speech3ENG-1400 Composition3MATH-1710 Calculus I5PEF-1990 Physical Activity and the Christian Life1PHAR-1011, 1012 Profession of Pharmacy I, II2Physical Education Activity Elective1Total33
Second year:BEGE-2730 Old Testament Literature3BEGE-2740 New Testament Literature3BIO-2210 Microbiology4BIO-2250 Cell Biology4CHEM-3510 Organic Chemistry I5CHEM-3525 Organic Chemistry II for Biologists4HUM-1400 Introduction to the Humanities3PHAR-2013, 2014 Profession of Pharmacy2PHYS-2110 General Physics I4History Elective3Total35
Third year: BEGE-3750 Christian Worldview Development. 2 BEGE-3760 Christian Worldview Integration 2 BIO-3450, 3460 Human Structure and Function I, II 7 BIO-4350 Immunology 4 GSS-1100 Politics and American Culture. 3 PHAR-3015, 3016 Pharmacy Activity. 3 PHAR-3100 Biostatistics** 3 PHAR-3200 Pharmacy Calculations. 2

Literature Elective

Department of

Psychology

Mission Statement

The Cedarville University Department of Psychology seeks to:

- 1. Develop understanding of biblical content that has psychological impact and to investigate all psychological concepts in the light of scriptural truth.
- 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.
- Prepare students for graduate study in psychology and related areas.
- Train students desiring to use counseling in vocational ministry and in biblical counseling contexts.
- 6. Introduce students to the work world through internships, Christian ministries, guest lecturers, and advisement.
- 7. Provide courses in psychology necessary for teacher certification.

Personal Requirements

Some students who pursue a major in psychology are interested in providing human services to populations with special needs. Other psychology majors choose to focus on graduate school preparation, including research interests.

Department Requirements

All psychology majors must obtain a cumulative 2.0 grade point average or higher in their major for graduation.



Programs of Study

The department of psychology offers a Bachelor of Arts degree in the following programs of study:

Majors

- Psychology
 - Applied Psychology with emphases in:
 - Family Studies
 - Counseling
- Minor • Psycholog
 - Psychology

While significant flexibility exists in both the psychology and applied psychology majors, the latter program is particularly useful for students not intending to pursue graduate studies subsequent to earning the bachelor's degree. The applied psychology major provides more in-depth coursework geared specifically toward human service jobs in child and family and counseling fields.

The psychology program is particularly useful to students who wish to earn a minor field of study at Cedarville, earn a double major, or take a sequence of courses in preparation for graduate school.

Co-Curricular Opportunities

Psychology majors have the opportunity to present papers at the Mid-America Undergraduate Psychology Research Conference and the Ohio Undergraduate Psychology Conference. In addition, the department sponsors the Psi Kappa Theta (PKT) 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.

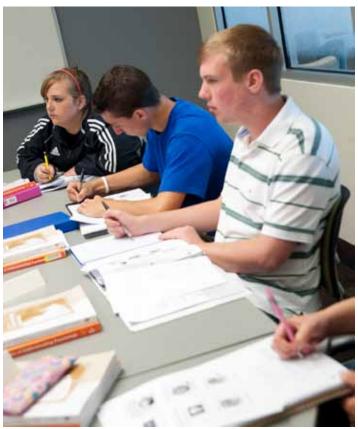


Career Opportunities

The Cedarville University 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
- Chaplain
- · Child therapist
- College counselor
- College professor
- Correctional institution counselor
- Counselor in local churchCrisis 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 boopital coupselor
- State hospital counselorSubstance abuse
- Substance abuse counselor



Faculty

Milton Becknell, *Chair*. 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. Diplomate, American Board of Professional Psychology in Clinical Health Psychology (ABPP); Registered Nurse (TX); Licensed Psychologist (OH). At Cedarville since 2004.

Amanda Burger, Instructor of Psychology. *Education:* B.A., Cedarville University, 2004; Ph.D. (ABD and internship), Wayne State University. At Cedarville since 2008.

Michael Firmin, 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.

Cosette Fox, Assistant Professor of Psychology. *Education:* B.S., University of Ottawa, 1997; B.A., University of Ottawa, 1999; Ph.D., University of Ottawa, 2005. At Cedarville since 2006.

Charles Dolph, Professor of Psychology. *Education:* B.A., Cedarville University, 1974; M.Ed., Georgia State University, 1982; Ph.D., Georgia State University, 1982. Licensed Psychologist (OH). At Cedarville since 1979.

Chi-en Hwang, Professor of Psychology. *Education:* B.S., National Taiwan University, 1977; M.A., University of Iowa, 1980; Ph.D., University of Iowa, 1986. At Cedarville since 1991. **Carl Ruby**, Vice President for Student Services. *Education:* B.A.,

Cedarville University, 1983; M.A., Wheaton College, 1988; Ph.D., Ohio University, 1996. At Cedarville since 1989.

Luke Tse, Associate Professor of Psychology. *Education:* B.A., Embry-Riddle Aeronautical University, 1991; M.Div., New Orleans Baptist Theological Seminary, 1995; Ph.D., New Orleans Baptist Theological Seminary, 2000. Licensed Professional Counselor (LPC); Licensed Independent Marriage and Family Therapist (LIMFT); National Certified Counselor (NCC). At Cedarville since 2001.

Robert Abbas, Professor Emeritus of Psychology. *Education:* B.M., Northwestern College, 1959; B.A., Wartburg College, 1962; M.A., University of Northern Colorado, 1965; Ph.D., University of Missouri at Columbia, 1972. Licensed Psychologist (OH). At Cedarville since 1971.

Stanley Ballard, Professor Emeritus of Psychology. *Education:* Graduate, Moody Bible Institute, 1954; Th.B., Baptist Bible College, 1956; Th.M., Dallas Theological Seminary, 1964; M.S., North Texas State University, 1965; Ph.D., North Texas State University, 1971. At Cedarville from 1965-2001.

Psychology The psychology major provides students with general exposure to the field of psychology in preparation for graduate study in psychology or a number of other human service positions.

Course requirements involve 40 semester hours including:

PYCH-1000 Orientation to Psychology	1
PYCH-1600 General Psychology	3
PYCH-2600 Human Development: Lifespan	3
PYCH-2610 Statistics	3
PYCH-2640 Abnormal Psychology	3
PYCH-3610 History and Systems of Psychology	3
PYCH-3650 Psychology of Learning and Cognition	3
PYCH-3660 Fundamentals of Counseling	3
PYCH-3690 Social Psychology	3
PYCH-3730 Research Methods	
PYCH-3900 Physiological Psychology	3
PYCH-4640 Literature Seminar in Psychology	3
PYCH-4950 Senior Research Project	3
*PYCH-4990 Psychology Internship	
*Capstone Course	

Psychology Major Curriculum Summary

Proficiency Requirements	0-5
Psychology Major Requirements	
Other General Education Requirements	46-54
Electives	42
Total (minimum, not including proficiency)	128



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

Suggested Four-Year Curriculum for a **Major in Psychology**

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
PYCH-1000 Orientation to Psychology	1
PYCH-1600 General Psychology	
Biology Elective	
History Elective	3
Physical Education Activity Elective	1
Physical Science Elective	3.5
Total	. 34

Second vear:

3
3
3
3
3
3
3
3
3
)

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
PYCH-3660 Fundamentals of Counseling	3
PYCH-3690 Social Psychology	
PYCH-3730 Research Methods	
PYCH-3900 Physiological Psychology	3
Electives	
Total)

Fourth year

round your.	
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	
Electives	
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-2600 Human Development: Lifespan	
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	

The **family studies emphasis** focuses on the development of traits that are commonly found in a healthy family. Healthy emotional and spiritual dimensions are emphasized along with the analysis of factors that lead to dysfunctional behavior and inadequate spiritual development. Course requirements include 23 credit hours:

PYCH-2751 Family and Couple Interventions	3
PYCH-3130 Intimate Relationships	3
PYCH-3420 Human Sexuality	
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, healthy growth, rational planning, and decision making involved in helping people of all ages who have personal, social, or spiritual concerns Course requirements include 23 credit hours:	
PYCH-3630 Testing and Measurement	3
PYCH-3670 Group Dynamics	3
PYCH-3701 Counseling Adolescents	3
PYCH-4400 Counseling Skills	3
*PYCH-4990 Psychology Internship in Counseling	3
Elective hours in psychology	8
*Capstone Course	

Applied Psychology Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Applied Psychology Requirements	60
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Applied Psychology

i not your.	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
ENG-1400 Composition	
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	
PEF-1990 Physical Activity and the Christian Life	1
PYCH-1000 Orientation to Psychology	1
PYCH-1600 General Psychology	3
Biology Elective	
History Elective	3
Physical Education Activity Elective	
Physical Science Elective	
Total	

Second year:

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
PYCH-2600 Human Development: Lifespan	3
PYCH-2610 Statistics	3
PYCH-2640 Abnormal Psychology	3
PYCH-3650 Psychology of Learning and Cognition	3
Humanities/Global Awareness Elective	3
Literature Elective	
Electives	6
Total	30

Third year:

inna your.	
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	
PYCH-3900 Physiological Psychology	3
Applied Psychology Concentration Courses	. 14
Total	. 30

Fourth year:

Total	
Electives	16
Applied Psychology Concentration Courses	6
PYCH-4990 Psychology Internship	3
PYCH-4950 Senior Research Project	3
PYCH-4640 Literature Seminar in Psychology	
PYCH-3610 History and Systems of Psychology	3
Tourin year.	

Minor

Psychology Minor

The **minor in psychology** helps students who find that additional coursework in psychology will support their major field of study. In particular, understanding people and human dynamics and applying the scientific method to problem-solving strengthens students' vocational preparation and ultimate job success. The psychology minor is constructed to allow maximum flexibility across a large cross-section of majors at Cedarville University.

Course requirements involve 16 semester hours including:	
PYCH-1600 General Psychology	3
PYCH-2640 Abnormal Psychology	3
Electives in psychology	







Department of

Science and Mathematics

Mission Statement

The Cedarville University Department of Science and Mathematics offers curricula in biology, chemistry, physics, mathematics, the earth-space sciences, and secondary science and mathematics education. The department seeks to present the natural sciences and mathematics as disciplines through which students can learn to understand creation and its Creator. They will learn how to exercise stewardship of this knowledge as professionals who seek to make a difference in their vocations for the glory of God and the benefit of family, church, community, and environment.

This department seeks to:

- Provide a meaningful learning experience in the sciences 1. 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.
- З. Assist students in developing a biblical perspective of the sciences, which is essential in understanding controversial issues such as origin of life, biomedical ethics, and genetic engineering.
- Prepare students for graduate study or further professional 4. 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.



Programs of Study

The department of science and mathematics offers the following programs of study:

Bachelor of Arts (B.A.) in:

- Biology
- Chemistry
- **Chemistry Education**
- Life Science Education
- Mathematics
- Mathematics Education Integrated
- **Physical Science Education**
- Physics
- **Physics Education**
- Science Comprehensive Education Integrated
- Bachelor of Science (B.S.) in:
 - Biology
 - Chemistry
 - **Environmental Science**
 - **Forensic Science**
 - Mathematics

Minors

- Actuarial Science
- Biology
- **Bioethics**
- Chemistry

Special Programs

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

Co-Curricular Opportunities

- Chi Theta Pi (pre-health professions organization)
- P.R.A.I.R.I.E. (Prairie Restoration and Initiative for Research, Inspiration, and Earthkeeping)
- Emergency Medical Services Squad
- Math Club
- Omega Theta Kappa (science education)

Technical Resources

- A.D.A.M. Interactive Anatomy
- Biology and chemistry laboratory support
- Chem Sketch
- DPGraph 2001
- Laboratory simulations
- LaTeX
- Maple 13

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
- **Business actuary**
- Chemist
- Environmental scientist
- toxicologist
- Health professional

- Laboratory technician
- Mathematician
- Pharmacist
- Physical therapist
- Physicist
- Physician
- Researcher
- Statistician
- Science educator
- Wildlife biologist



- - SigmaPlot 10.0 ®
 - Statistical analysis tools Spartan Physical

Molecular Modeling

Molecular and Cellular

Biology

Physics

Earth Science

Mathematics

Prepharmacy

Pre-physical Therapy

Physics

Chemistry

Matlab 7.20

Software

- Botanist

- Chiropractor

- Environmental

Faculty

Dennis Flentge, *Chair:* Senior Professor of Chemistry. *Education:* B.S., Texas Lutheran College, 1969; Ph.D., Texas AandM University, 1974; Postdoctoral Research Fellow, University of Florida, 1974-75; Texas AandM 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, Associate 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, Professor of Mathematics. *Education:* B.S., University of Nebraska, 1989; Ph.D, University of Michigan, 1995. At Cedarville since 1997.

Mark Gathany, Assistant Professor of Biology. *Education:* B.S., Grace College, 2002; M.S.E.S and Conservation Biology Certificate, Ohio University, 2004; Ph.D, Colorado State University. At Cedarville since 2007.

Steven Gollmer, Professor of Physics. *Education:* B.S., Pillsbury Baptist Bible College, 1982; B.S., Northern Illinois University, 1985; M.S., University of Illinois, 1986; Ph.D., Purdue University, 1994. At Cedarville since 1994.

Melissa Hartman. Assistant Professor of Biology. *Education:* B.A., Cedarville University, 1996; M.D., Indiana University School of Medicine, 2000. At Cedarville since 2009.

Larry Helmick, Senior Professor of Chemistry. *Education:* B.S., Cedarville University, 1963; Ph.D., Ohio University, 1968; postdoctoral research, University of Florida, 1974-75 and summers of 1969, 1970, 1971; University of Illinois, summers of 1972, 1973, 1974; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1980-1987 and 1990-1993, 1998; National Research Council Senior Research Fellow, 1988-1989; Wright Laboratory, Wright-Patterson Air Force Base, 1994-1997. At Cedarville since 1968.

Nathan Hnatiuk, Assistant Professor of Chemistry. *Education:* B.S., Houghton College, 2003; ABD, University of Connecticut. At Cedarville University since 2008

Aaron Hutchinson, Associate Professor of Chemistry. *Education:* B.A., Cedarville University, 1998; Ph.D., University of Kentucky, 2007. At Cedarville University since 2003.

Jennifer Hutchison, Assistant Professor of Mathematics. *Education:* B.S; Cedarville University, 2001; M.A., Miami University, 2003; Additional graduate study, Auburn University, 2003-2005. At Cedarville since 2005.

William Jones, Assistant Professor of Biology. *Education:* B.A., Cedarville University, 1981; M.A., University of Akron, 1999; Ph.D. candidate, The Ohio State University. At Cedarville since 1999. **Heather Kuruvilla**, Professor of Biology. *Education:* B.S., Houghton College, 1992; Ph.D., State University of New York at Buffalo, 1997. At Cedarville since 1997. **Dali Luo**, Associate Professor of Mathematics. *Education:* B.S., South China Institute of Technology, 1982; M.S., Claremont Graduate School, 1988; Ph.D., Washington State University, 1992; M.A., Grand Rapids Baptist Seminary, 2001; Th.M, Calvin Theological Seminary, 2003. At Cedarville, 1992-1998, 2001-present.

Mark McClain, Professor of Chemistry. *Education:* B.A., Cedarville University, 1989; Ph.D, University of Michigan, 1994; Postdoctoral Fellow, Sandia National Laboratories, 1994-96; Summer Faculty Research Fellow, Air Force Research Laboratory, 1997, 1999, 2000, 2001, 2002; National Research Council Senior Research Associate, 2003-2004. At Cedarville since 1996. **Douglas Miller**, Professor of Chemistry. *Education:* B.S., University of Rochester, 1977; Ph.D., University of Colorado, 1981; postdoctoral research, University of Iowa, 1982; City University of New York, 1982-1984; Summer Faculty Research Fellow, NASA-Lewis Research Center, 1986-1990, 1992. At Cedarville since 1984.

Kevin Roper, Associate 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, 2000-present. **Alicia Schaffner**, Associate Professor of Biology. *Education:* B.S., Purdue University, 1992; Ph.D., The Ohio State University, 2000. At Cedarville since 2000.

Robert Schumacher, Assistant Professor of Mathematics and Computer Science. *Education:* B.S., Computer Science, United States Air Force Academy, 1970; M.S., Operations Research, Air Force Institute of Technology, 1979. At Cedarville since 1993. John Silvius, Senior Professor of Biology. *Education:* B.A., Malone College, 1969; graduate study, Western Michigan University, 1970; Ph.D., West Virginia University, 1974; postdoctoral study, University of Illinois, 1974-76. At Cedarville since 1979. **Dennis Sullivan**, Professor of Biology. *Education:* B.S., Youngstown State University, 1974; M.D., Case Western Reserve University, 1978; Diplomate, American Board of Surgery, 1985; Fellow, American College of Surgeons, 1996; M.A. (Ethics), Trinity International University, 2004. At Cedarville since 1996.

John Whitmore, Associate Professor of Geology. *Education:* B.S., Kent State University, 1985; M.S., Institute for Creation Research, 1991; Ph.D., Loma Linda University, 2003. At Cedarville since 1991.

Cynthia Wingert, Assistant Professor of Biology. *Education:* B.A., Cedarville University, 2001; M.S., Wright State University, 2005. At Cedarville 2001-2003, 2005-present.

Otis Wright, 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. **Bethany Sibbitt**, Biology Laboratory Instructor, *Education:* B.S., Cedarville University, 2007. At Cedarville since 2009.

School of Natural and Applied Sciences

Biology – Bachelor of Arts

The **Bachelor of Arts degree with a major in biology** provides general course background in the biological sciences.

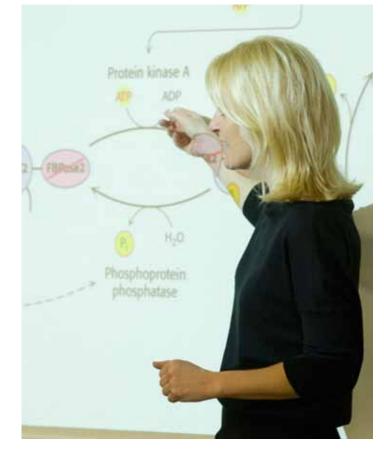
Course requirements involve 53 semester hours including:	
Biology Core Requirements	
BIO-1110 Introduction to Biology	
BIO-1120 General Zoology	4
BIO-2500 General Botany	4
BIO-2600 General Ecology	3
BIO-2250 Cell Biology	4
BIO-3300 Genetics	4
BIO-3710 Biochemistry	4
*BIO-4800 Senior Seminar-Biology	1
Biology electives	8
Departmental requirements	17
CHEM-1110, 1120 General Chemistry I, II	
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	
Biology Major Requirements.	53
Electives	
Total (minimum, not including proficiency)	

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 184 for a list of courses generally recommended for admission to professional colleges.

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



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

Suggested Four-Year Curriculum for a Major in Biology–B.A.

First year:	
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 3	31

Second year:

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BIO-2500 General Botany	4
BIO-2600 General Ecology	
BIO-2250 Cell Biology	
CHEM-3510 Organic Chemistry I	
COM-1100 Fundamentals of Speech	3
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3
Literature Elective	3
Total	

Third year:

initi year.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BIO-3300 Genetics	4
BIO-3710 Biochemistry	4
Biology Electives	
Humanities Elective	3
Electives	10
Total	33
Fourth year:	
BIO-4800 Senior Seminar–Biology	1
History Elective	3
Social Science/Global Awareness Elective	
Electives	23
Total	32

School of Natural and Applied Sciences

Biology – Bachelor of Science

The **Bachelor of Science degree with a major in biology** prepares students for graduate study in the biological sciences by including the course requirements prescribed by many of the leading graduate-level biology degree programs in the nation. This major enhances the student's depth of knowledge in biology and increases the breadth of exposure to chemistry, mathematics, and physics.

Course requirements involve 78 hours including:

Biology Requirements	46
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BIO-2500 General Botany	4
BIO-2600 General Ecology	3
BIO-2250 Cell Biology	4
BIO-3300 Genetics	
BIO-3710 Biochemistry	
BIO-3800 Biological Research	2
*BIO-4800 Senior Seminar–Biology	
Biology electives 1	
Departmental Requirements	
CHEM-1110, 1120 General Chemistry I, II	
CHEM-3510 Organic Chemistry I	
CHEM-3525 Organic Chemistry II for Biologists	
MATH-1710 Calculus I	5
PHYS-1010, 1020 College Physics I, II 10	0
*Capstone Course	

Biology Major (B.S.) Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Biology Major Requirements	
Electives	
Total (minimum, not including proficiency)	128

Students preparing for medicine, dentistry, osteopathy, or any of the **health professions** should refer to page 184 for a list of courses generally recommended for admission to professional colleges.



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

Suggested Four-Year Curriculum for a Major in Biology–B.S.

First year: BEGE-1710 Christian Life and Thought	3 1 3 3 3 3 1
Second year: BIO-2500 General Botany 4 BIO-2600 General Ecology 3 BIO-2250 Cell Biology 4 CHEM-3510 Organic Chemistry I 5 CHEM-3525 Organic Chemistry II for Biologists 4 MATH-1710 Calculus I 5 History Elective 3 Total 26	34553
Third year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature BIO-3300 Genetics 4 BIO-3710 Biochemistry 4 BIO-3800 Biological Research 2 GSS-1100 Politics and American Culture 3 PHYS-1010, 1020 College Physics I, II 10 Biology Electives 4 Total	3 + 3
Fourth year: BEGE-3750 Christian Worldview Development	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

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.

	•
Chemistry Requirements	31
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	
Chemistry electives	4
Departmental Requirements	21.5
GBIO-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	
Chemistry Major Requirements	
Electives	
Total (minimum, not including proficiency)	

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 184 for a list of courses generally recommended for admission to professional colleges.



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

Suggested Four-Year Curriculum for a Major in Chemistry–B.A.

First year:

The year	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
CHEM-1110, 1120 General Chemistry I, II	
COM-1100 Fundamentals of Speech	
ENG-1400 Composition	
MATH-1710, 1720 Calculus I, II	
PEF-1990 Physical Activity and the Christian Life	
Physical Education Activity Elective	
Total	
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	
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PHYS-2110, 2120 General Physics I, II	8
Literature Elective	
Electives	5
Total	32
Third year:	
BEGE-3750 Christian Worldview Development	2

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
CHEM-3510, 3520 Organic Chemistry I, II	10
CHEM-4310 Physical Chemistry I	4
GBIO-1000 Principles of Biology	
Humanities Elective	
Social Science/Global Awareness Elective	
Electric contraction of the second se	_
Electives	
Total	
Total Fourth year: CHEM-4800 Senior Seminar–Chemistry Chemistry Electives	32.5 1 4
Total Fourth year: CHEM-4800 Senior Seminar–Chemistry	32.5 1 4
Total Fourth year: CHEM-4800 Senior Seminar–Chemistry Chemistry Electives History Elective	32.5 1 4 3
Total Fourth year: CHEM-4800 Senior Seminar–Chemistry Chemistry Electives	32.5 1 4 3 24

School of Natural and Applied Sciences

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:

	aanig.
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	
*CHEM-4800 Senior Seminar-Chemistry	1
Chemistry electives	
Departmental elective	3
Departmental Requirements	
GBIO-1000 Principles of Biology	3.5
(or BIO-1110 Introduction to Biology	
MATH-1710, 1720 Calculus I, II	10
PHYS-2110, 2120 General Physics I, II	
*Capstone Course	

Chemistry Major (B.S.) Curriculum Summary:

Proficiency Requirements	0-5
Other General Education Requirements	42
Chemistry Major Requirements	
Electives	
Total (minimum, not including proficiencies)	



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

Suggested Four-Year Curriculum for a Major in Chemistry–B.S.

First year: BEGE-1710 Christian Life and Thought
Second year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 CHEM-2210, 2220 Analytical Chemistry I, II 6 CHEM-2800 Introduction to Research in Chemistry 1 GBIO-1000 Principles of Biology 3.5 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3

Third vear:

Thild 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	
History Elective	
Social Science/Global Awareness Elective	
Electives	
Total	
10tal	
Fourth year:	
Fourth year: CHEM-3410 Inorganic Chemistry	3
Fourth year:	
Fourth year: CHEM-3410 Inorganic Chemistry CHEM-4800 Senior Seminar–Chemistry	3 1 7
Fourth year: CHEM-3410 Inorganic Chemistry CHEM-4800 Senior Seminar–Chemistry Chemistry Electives Department Elective	3 1 7 3
Fourth year: CHEM-3410 Inorganic Chemistry CHEM-4800 Senior Seminar–Chemistry Chemistry Electives	3

Environmental Science

The **Bachelor of Science degree with a major in environmental science** prepares students with a foundation for entering vocations in ecology, conservation biology, environmental

education, environmental consulting companies, etc., and graduate study which is often needed for these careers.

Course requirements involve 70 competer hours including
Course requirements involve 79 semester hours including: Environmental Science Requirements
BIO-1110 Introduction to Biology
BIO-1120 General Zoology
BIO-2500 General Botany
BIO-2600 General Ecology
BIO-2000 General Ecology
(or BIO-3810 Biological Research Internship
*BIO-4800 Biology Senior Seminar
ENVS-1010 Introduction to Environmental Science
ENVS-2100 Introduction to Geographic Information Systems3
ENVS-3200 Ecosystem Science
ENVS-3600 Environmental Ethics
CHEM-1110, 1120 General Chemistry I, II
CHEM-3510 Organic Chemistry I
MATH-1710 Calculus I
GMTH-2110 Introduction to Biostatistics
POLS-3690 Public Policy
Emphasis requirements
Each student must complete 12 hours in an emphasis area that is an extension of
the major. Examples of such tracks include public policy, geoscience, and molecular
ecology. At least 8 of these credits must come from 3000 or 4000 level courses. The
courses in the emphasis will be selected by the student and his/her advisor and must
be approved by the department chair. This set of courses will be sent to the registrar
and will become part of the student's academic file.
Environmental Science electives (meeting the following
criteria for each set)15
Set A7
BIO-2210 Microbiology4
BIO-3300 Genetics
BIO-3710 Biochemistry
BIO-3410 Invertebrate Zoology3 BIO-3420 Vertebrate Zoology3
BIO-3420 Venebrate 20010gy
**BIO-3610 Environmental Physiology and Ecology4
BIOA-3220 Aquatic Biology4 BIOA-3220 Aquatic Biology4
Set B
**BIO-3610 Environmental Physiology and Ecology4
BIO-4910 Environmental Biology Internship
BIOA-4710 Conservation Biology
BIOA-4820 Restoration Ecology
BIOA-4870 Forest Ecology
BIOA-XXXX Ausable course (Advisor Approval)4
CHEM-2210 Analytical Chemistry I
CHEM-3210 Environmental Chemistry4
* Capstone Course
**This course may not be counted twice in the environmental science elective hours.

Environmental Science Major (B.S.) Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Environmental Science Major Requirements	79
General Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Environmental Science–B.S.

First year:	
BEGÉ-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
ENVS-1010 Introduction to Environmental Science	1
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1

Second year:

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BIO-2500 General Botany	4
BIO-2600 General Ecology	3
CHEM-3510 Organic Chemistry I	5
GMTH-2110 Introduction to Biostatistics	3
GSS-1100 Politics and American Culture	3
MATH-1710 Calculus I	5
Humanities Elective	3
Total	. 32

Third year:

Inira year:	
BEGE-3750 Christian Worldview Development	2
BIO-3800 Biological Research	2
ENVS-2100 Introduction to Geographic Information Systems	3
ENVS-3200 Ecosystem Science	3
ENVS-3600 Environmental Ethics	3
POLS-3690 Public Policy	3
Emphasis requirements	
Environmental Science Electives	7
Literature Elective	3
Total	32

Fourth year:

rounin year.	
BEGE-3760 Christian Worldview Integration	2
BIO-4800 Biology Senior Seminar	1
History/Global Awareness Elective	3
Emphasis requirements	6
Environmental Science Electives	
Electives	10
Total	30



School of Natural and Applied Sciences

Forensic Science

The **Bachelor of Science degree with a major in forensic science** is an interdisciplinary degree that includes substantial laboratory work and an emphasis on advanced coursework in the sciences. It will involve a collaborative endeavor between Cedarville University and the Ohio Bureau of Criminal Identification and Investigation consisting of a forensic laboratory experience on an internship basis with the bureau.

Course requirements involve 93 semester hours including:
Science and Math Requirements
BIO-1110 Introduction to Biology
BIO-1120 General Zoology
BIO-2250 Cell Biology
BIO-3710 Biochemistry4
CHEM-1110, 1120 General Chemistry I, II8
CHEM-2210, 2220 Analytical Chemistry I, II6
CHEM-3510, 3520 Organic Chemistry I, II 10
FORS-3400 Forensic Science 4
*FORS-4800 Forensic Science Capstone 1
GSS-3630 Data Analysis and Research Methodology
MATH-1710, 1720 Calculus I, II 10
PHYS-2110, 2120 General Physics I, II8
Criminal Justice Requirements
CRJU-1310 Introduction to Criminal Justice
CRJU-3320 Criminal Investigation3
CRJU-3350 Criminal Law
CRJU-3390 Criminal Evidence
CRJU-3400 Criminal Procedure
GSS-4990 Internship
Science Electives selected from
BIO-3300 Genetics
BIO-4300 Molecular Biology
CHEM-4310 Physical Chemistry I 4
CHEM-4320 Physical Chemistry II
*Capstone Course

Forensic Science Major (B.S.) Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	
Forensic Science Major Requirements	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Forensic–B.S.

First year:	
BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BIO-2250 Cell Biology	4
CHEM-1110, 1120 General Chemistry I, II	
CRJU-1310 Introduction to Criminal Justice	
ENG-1400 Composition	3
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
Total	
Second year:	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
CHEM-2210, 2220 Analytical Chemistry I, II	6
COM-1100 Fundamentals of Speech	3
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
MATH-1710 1720 Calculus I II	10

bird voo

Third year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BIO-3710 Biochemistry	4
CHEM-3510, 3510 Organic Chemistry I, II	10
CRJU-3320 Criminal Investigation	3
CRJU-3350 Criminal Law	
FORS-3400 Forensic Science	4
GSS-3630 Data Analysis and Research Methodology	4
Humanities Elective	3
Total	35

Fourth year:

Fourth year:	
CRJU-3390 Criminal Evidence	3
CRJU-3400 Criminal Procedure	3
FORS-4800 Forensic Science Capstone	1
GSS-4990 Internship	3
PHYS- 2110, 2120 General Physics I, II	8
History Elective	
Social Science/Global Awareness Elective	3
Science Electives	8
Total	

Geology – Bachelor of Science The Bachelor of Science degree with a major in geology prepares students for graduate studies or employment in a wide variety of geological fields. Skills needed by modern geologists, such as observation, interpretation, model analysis, critical thinking, and field work, are emphasized throughout the program. Opportunities for undergraduate research and publication are also available and encouraged.

Course requirements involve 85 hours including:

Geology Requirements	51
GEOL-1110 Introduction to Physical Geology	4
GEOL-1120 Historical Geology	
GEOL-2100 Mineralogy	4
GEOL-3100 Geomorphology	
GEOL-3200 Invertebrate Paleontology	
GEOL-3300 Petrology	
GEOL-3400 Structural Geology	4
GEOL-3800 Philosophy of Science/Research Methods	
in Geology	
GEOL-4100 Environmental Geology	
GEOL-4200 Stratigraphy and Sedimentology	
GEOL-4400 Summer Field Camp	
*GEOL-4800 Senior Project	
Geology electives	
Departmental Requirements	
BIO-1110 Introduction to Biology	4
CHEM-1110, 1120 General Chemistry I, II	8
MATH-1710, 1720 Calculus I, II	
PHYS-2110, 2120 General Physics I, II	
Earth Science Electives selected from	
ESCI-2310 Oceanography	
ESCI-2410 Meteorology	
ESCI-2510 Astronomy	4
*Capstone Course	

Geology Major (B.S.) Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	42
Biology Major Requirements	85
Electives	1
Total (minimum, not including proficiency)	128



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

Suggested Four-Year Curriculum for a Major in Geology-B.S.

First year:

BEGE-1710 Christian Life and Thought
Total
Second year: BIO-1110 Introduction to Biology
Third year: BEGE-2730 Old Testament Literature 3 BEGE-2740 New Testament Literature 3 GEOL-3100 Geomorphology 4 GEOL-3200 Invertebrate Paleontology 4 GEOL-3400 Structural Geology 4 GEOL-3800 Philosophy of Science/Research Methods in Geology 3 GEOL-4200 Stratigraphy and Sedimentology 5 Literature Elective 3 Total 29
Summer GEOL-4400 Summer Field Camp
Fourth year: BEGE-3750 Christian Worldview Development DEGE-3760 Christian Worldview Integration 2 GEOL-4100 Environmental Geology 4 GEOL-4800 Senior Project 2 HUM-1400 Introduction to the Humanities. 3 Earth Science Elective 4 Geology Elective 3 History Elective 3 Social Science/Global Awareness Elective 3 Electives 1 Total

School of Natural and Applied Sciences

Molecular and Cellular Biology

The **Bachelor of Science degree with a major in molecular and cellular biology** prepares students for graduate-level training in the context of a broad biological background based in a biblical worldview. This degree allows students to become holistically thinking molecular biologists and will enhance the student's depth of knowledge in this competitive and growing field.

Course requirements involve 83 hours including:

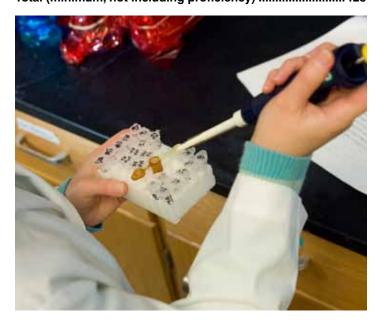
Biology Requirements	70
BIO-1110 Introduction to Biology	
BIO-1120 General Zoology	4
BIO-2250 Cell Biology	4
BIO-2500 General Botany	
BIO-2600 General Ecology	
BIO-3300 Genetics	
BIO-3710 Biochemistry	
BIO-3800 Biological Research	
(or BIO-3810 Biology Research Internship	
BIO-4210 Advanced Cell Biology	
BIO-4300 Molecular Biology of the Cell	
BIO-4800 Senior Seminar-Biology	
CHEM-1110, 1120 General Chemistry I, II	
CHEM-3510 Organic Chemistry I	
CHEM-3525 Organic Chemistry II for Biologists	
MATH-1710 Calculus I	
PHYS-1010, 1020 College Physics I, II	10

Biology Electives selected from the following	13
Selected from	
BIO-2210 Microbiology	
BIO-4220 Signal Transduction	
BIO-4350 Immunology	4
BIO-4XXX Eukaryotic Gene Regulation	3
Any 3000 or 4000-level Biology electives	
*Constana Courso	

*Capstone Course

Molecular and Cellular Biology Major (B.S.) Curriculum Summary

Proficiency Requirements	0-5
General Education Requirements	42
Molecular and Cellular Biology Major Requirements	83
Electives	3
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Molecular and Cellular Biology–B.S.

First year: BEGE-1710 Christian Life and Thought BEGE-1720 Spiritual Formation BIO-1110 Introduction to Biology BIO-1120 General Zoology CHEM-1110, 1120 General Chemistry I, II COM-1100 Fundamentals of Speech ENG-1400 Composition HUM-1400 Introduction to the Humanities PEF-1990 Physical Activity and the Christian Life Physical Education Activity Elective Total	.3 .4 .8 .3 .3 .3 .1
Second year:	
BIO-2250 Cell Biology	.4
BIO-2500 General Botany	
BIO-2600 General Ecology	.3
CHEM-3510 Organic Chemistry I	.5
CHEM-3525 Organic Chemistry II for Biologists	
MATH-1710 Calculus I	
GSS-1100 Politics and American Culture	
History Elective	
Total	31
Third year:	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
BIO-3300 Genetics	
BIO-3710 Biochemistry	
BIO-3800 Biological Research	
(or BIO-3810 Biology Research Internship	
BIO-4210 Advanced Cell Biology	
PHYS-1010, 1020 College Physics I, II	
Electives	
10(a)	33
Fourth year:	
BEGE-3750 Christian Worldview Development	.2
BEGE-3760 Christian Worldview Integration	
BIO-4300 Molecular Biology of the Cell	
BIO-4800 Senior Seminar–Biology	
Biology Electives	13

 Humanities Elective
 3

 Literature Elective
 3

 Social Science/Global Awareness Elective
 3

 Total
 31

Mathematics – Bachelor of Arts

The Bachelor of Arts degree with a major in mathematics provides coursework and training in advanced mathematics. Because of the general nature of this curriculum and opportunity to complement the major with electives from other fields of study, this curriculum provides excellent preparation for graduate study in areas that require good quantitative and/or analytical skills such as philosophy, business, and theology. This liberal arts major also prepares students for a wide variety of career opportunities that require a general Bachelor of Arts degree. The flexibility of this major enables students to select their mathematics and other electives to meet educational or career goals.

Students should include courses in astronomy, chemistry, and physics as general electives.

Course requirements involve 54 semester hours including: Mathematics Core Requirements
CS-1210 C++ Programming
MATH-1710, 1720, 2710 Calculus I, II, III
MATH-1990 Beautiful Math Structures and Thinking
MATH-2210 Logic and Methods of Proof
MATH-2740 Differential Equations
MATH-2800 LaTeX for Technical Documents
MATH-3610 Linear Algebra
MATH-3800 Research Methods in Mathematics
*MATH-4800 Capstone Experience in Mathematics
PHYS-2110, 2120, 2130 General Physics I, II, III
Electives (meeting the following criteria)
Applied courses (at least three hours from the following
applied courses)
MATH-3110, 4110 Probability and Statistics I, II
MATH-3550 Discrete Mathematics: Graph Theory
MATH-3640 Introduction to Operations Research
MATH-3750 Introduction to Dynamical Systems
MATH-3760 Numerical Analysis3
MATH-4210 Mathematical Methods for Physicists3
MATH-4880 Topics in Mathematics
MATH-4900 Independent Study in Mathematics1-3
Theoretical Courses (at least three hrs. from the
following)
MATH-3500 Number Theory3
MATH-3550 Discrete Mathematics: Graph Theory
MATH-3560 Discrete Mathematics: Combinatorics
MATH-3710 Advanced Calculus3
MATH-3740 Complex Variables3
MATH-4410 Euclidean and Non-Euclidean Geometry3
MATH-4450 Topology3
MATH-4610, 4620 Abstract Algebra I, II6
MATH-4710, 4720 Real Variables I, II6
MATH-4880 Topics in Mathematics1-3
MATH-4900 Independent Study in Mathematics1-3
*Capstone Course

Mathematics Major (B.A.) Curriculum Summary

Total (minimum, not including proficiency)) 128
Electives	
Mathematics Major Requirements	54
Other General Education Requirements	45.5-53.5
Proticiency Requirements	0-5

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

Suggested Four-Year Curriculum for a Major in Mathematics-B.A.

First year:

, not your	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	3
CS-1210 C++ Programming	
ENG-1400 Composition	
HUM-1400 Introduction to the Humanities	3
MATH-1710, 1720 Calculus I, II	10
MATH-1990 Beautiful Math Structures and Thinking	3
MATH-2800 LaTeX for Technical Documents	1
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	
Total	

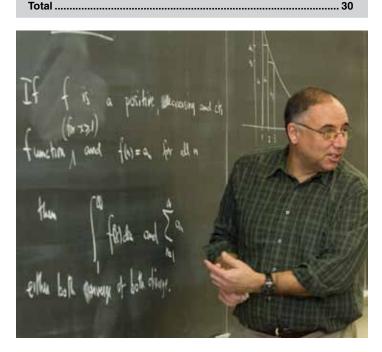
Second year

Second year.	
BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
GSS-1100 Politics and American Culture	3
MATH-2210 Logic and Methods of Proof	3
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	3
MATH-3800 Research Methods in Mathematics1	1
PHYS-2110, 2120 General Physics I, II	3
Literature Elective	3
Electives	3
Total	3

Third year

~ -

mild year.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GBIO-1000 Principles of Biology	3.5
MATH-3610 Linear Algebra	
PHYS-2130 General Physics III	2
Humanities Elective	
Mathematics Electives	6
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



School of Natural and Applied Sciences

Mathematics – Bachelor of Science

The Bachelor of Science degree with a major in mathematics prepares students for graduate study in mathematics. The curriculum includes the course requirements prescribed by many of the leading graduate-level mathematics programs in the nation.

Students should include courses in astronomy, chemistry, and physics as general electives. Course requirements involve 69 hours:

nours.	
Mathematics Core Requirements	
CS-1210 C++ Programming	
MATH-1710, 1720, 2710 Calculus I, II, III	
MATH-1990 Beautiful Math Structures and Thinking	
MATH-2210 Logic and Methods of Proof	
MATH-2740 Differential Equations	
MATH-2800 LaTeX for Technical Documents	
MATH-3610 Linear Algebra	3
MATH-3800 Research Methods	
MATH- 4610 Abstract Algebra I	
MATH-4710 Real Variables I	
*MATH-4800 Capstone Experience in Mathematics	
PHYS-2110, 2120, 2130 General Physics I, II, III	
Electives (meeting the following criteria)	
Applied courses (at least six hours from the following	
applied courses)	6-15
MATH-3110, 4110 Probability and Statistics I, II	6
MATH-3550 Discrete Mathematics: Graph Theory	
MATH-3640 Introduction to Operations Research	
MATH-3750 Introduction to Dynamical Systems	
MATH-3760 Numerical Analysis	
MATH-4210 Mathematical Methods for Physicists	
MATH-4880 Topics in Mathematics	
MATH-4900 Independent Study in Mathematics	
Theoretical Courses (at least six hours from the fol	
theoretical courses)	
MATH-3500 Number Theory	
MATH-3550 Discrete Mathematics: Graph Theory	
MATH-3560 Discrete Mathematics: Combinatorics MATH-3710 Advanced Calculus	
MATH-3740 Complex Variables MATH-4410 Euclidean and Non-Euclidean Geometry	
MATH-4410 Euclidean and Non-Euclidean Geometry MATH-4450 Topology	
MATH-4450 Topology MATH-4620 Abstract Algebra II	
MATH-4620 Abstract Algebra II MATH-4720 Real Variables II	
MATH-4720 Real variables in	
MATH-4000 Topics in Mathematics MATH-4900 Independent Study in Mathematics	
*Capstone Course	

*Capstone Course

Mathematics Major (B.S.) Curriculum Summary

Mathematics Major Requirements

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

Suggested Four-Year Curriculum for a Major in Mathematics-B.S.

First vear:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
CS-1210 C++ Programming	
ENG-1400 Composition	
HUM-1400 Introduction to the Humanities	
MATH-1710, 1720 Calculus I, II	
MATH-1990 Beautiful Math Structures and Thinking	
MATH-2800 LaTeX for Technical Documents	1
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
Total	33

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
GSS-1100 Politics and American Culture	3
MATH-2210 Logic and Methods of Proof	3
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	3
MATH-3800 Research Methods in Mathematics	1
PHYS-2110, 2120 General Physics I, II	8
Literature Elective	
Total	30

Third yoar

mild year.	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
GBIO-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	4.5
Total	32

Fourth year:	
MATH-4800 Capstone Experience in Mathematics	3
History Elective	3
Mathematics Electives1	5
Social Science/Global Awareness Elective	3
Electives	9
Total	33



Physics – Bachelor of Arts

The **physics major** prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Course requirements involve 53.5 semester hours:

Physics Core Requirements	25
*PHYS-2110, 2120, 2130 General Physics I, II, III 10	
PHYS-3110 Intermediate Physics Lab	2
PHYS-3310 Theoretical Mechanics I	3
PHYS-3410 Electromagnetic Theory I	3
PHYS-3510 Modern Physics	
PHYS-3800 Research Methods in Physics	
PHYS-4110 Advanced Physics Lab.	
**PHYS-4800 Senior Seminar-Physics	
Physics Electives (3 courses) selected from the following	
EGEE-2050 Circuits and Instrumentation	
PHYS-3330 Acoustics	3
PHYS-3350 Thermal Physics	3
PHYS-4210 Mathematical Methods for Physicists	
PHYS-4310 Theoretical Mechanics II	3
PHYS-4410 Electromagnetic Theory II	3
PHYS-4450 Optics	
PHYS-4520 Quantum Mechanics I	
PHYS-4530 Quantum Mechanics II	3
PHYS-4550 Solid State Physics	3
PHYS-4880 Topics in Physics 1-3	
Departmental Requirements1	9.5
CHEM-1050 Chemistry for Engineers	
MATH-1710, 1720, 2710 Calculus I, II, III	3
MATH-2740 Differential Equations	3
*All students must earn at least a C+ in these courses.	
**Capstone Course	

**Capstone Course

Physics Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	45.5-53.5
Physics Major Requirements	
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in 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:

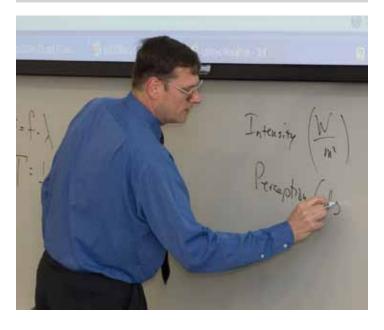
Second year.	
BEGE-2730 Old Testament Literature	
BEGE-2740 New Testament Literature	
GBIO-1000 Principles of Biology	
GSS-1100 Politics and American Culture	
MATH-2710 Calculus III	
MATH-2740 Differential Equations	
PHYS-2120, 2130 General Physics II, III6	
PHYS-3310 Theoretical Mechanics I	
Electives5	
Total 32.5	

Third ve

Inira 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	
Total	

Fourth year:

rounnyear.	
PHYS-3510 Modern Physics	3
PHYS-4110 Advanced Physics Laboratory	2
PHYS-4800 Senior Seminar-Physics	1
History Elective	
Humanities Elective	
Physics Electives	6
Social Science/Global Awareness Elective	3
Electives	12
Total	33



School of Natural and Applied Sciences

Physics – Bachelor of Science The physics major prepares students for graduate study in physics or for employment opportunities in industry. The curriculum includes courses prescribed by leading graduate-level physics programs in the nation.

Students should include courses in mathematics and chemistry as general electives. Students must demonstrate proficiency in the general physics sequence to advance into 3000- and 4000-level courses.

Physics Core Requirements
*PHYS-2110, 2120, 2130 General Physics I, II, III 10
PHYS-3110 Intermediate Physics Lab2
PHYS-3310 Theoretical Mechanics I
PHYS-3350 Thermal Physics
PHYS-3410 Electromagnetic Theory I
PHYS-3510 Modern Physics3
PHYS-3800 Research Methods in Physics 1
PHYS-4110 Advanced Physics Lab
PHYS-4210 Mathematical Methods for Physicists
PHYS-4520 Quantum Mechanics I
PHYS-4800 Physics Senior Seminar1
Electives selected from the following PHYS-3000 and
MATH-4000-level courses9
PHYS-3330 Acoustics
FTTTS-5550 ACOUSTICS
PHYS-4310 Theoretical Mechanics II
PHYS-4310 Theoretical Mechanics II.3PHYS-4410 Electromagnetic Theory II3PHYS-4450 Optics3PHYS-4530 Quantum Mechanics II3PHYS-4550 Solid State Physics3PHYS-4880 Topics in Physics1-3Departmental Requirements25.5CHEM-1050 Chemistry for Engineers3.5CS-1210 C++ Programming2EGEE-2050 Circuits and Instrumentation4
PHYS-4310 Theoretical Mechanics II.3PHYS-4410 Electromagnetic Theory II3PHYS-4450 Optics3PHYS-450 Quantum Mechanics II3PHYS-4550 Solid State Physics3PHYS-4880 Topics in Physics1-3Departmental Requirements25.5CHEM-1050 Chemistry for Engineers3.5CS-1210 C++ Programming2EGEE-2050 Circuits and Instrumentation4MATH-1710, 1720, 2710 Calculus I, II, III13

B.S. Physics Curriculum Summary

Proficiency requirements	0-6
Other General Education requirements	
Physics major requirements	
Electives	
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a Major in Physics-B.S.

First year:
BEGE-1710 The Christian Life
BEGE-1720 Spiritual Formation
CHEM-1050 Chemistry for Engineers
COM-1100 Speech
CS-1210 C++ Programming
ENG-1400 English Composition
PEF-1990 P.A.C.L
PEP-1990 P.A.C.L. PHYSICS I
Total
10tal
Second year:
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature
EGEE-2050 Circuits and Instrumentation4
GBIO-1000 Principles of Biology
GSS-1100 Politics and American Culture
MATH-2710 Calculus III
MATH-2740 Differential Equations
PHYS-2120, 2130 General Physics II, III
PHYS-3310 Theoretical Mechanics I
Total
Third year:
Third year: BEGE-3750 Christian Worldview Development
BEGÉ-3750 Christian Worldview Development2
BEGÉ-3750 Christian Worldview Development2 BEGE-3760 Christian Worldview Integration2
BEGÉ-3750 Christian Worldview Development
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3
BEGÉ-3750 Christian Worldview Development2BEGE-3760 Christian Worldview Integration2HUM-1400 Introduction to the Humanities3PHYS-3110 Intermediate Physics Lab2PHYS-3350 Thermal Physics3PHYS-3410 Electromagnetic Theory I3PHYS-3510 Modern Physics3PHYS-3800 Research Methods in Physics1
BEGÉ-3750 Christian Worldview Development2BEGE-3760 Christian Worldview Integration2HUM-1400 Introduction to the Humanities3PHYS-3110 Intermediate Physics Lab2PHYS-3350 Thermal Physics3PHYS-3410 Electromagnetic Theory I3PHYS-3510 Modern Physics3PHYS-3800 Research Methods in Physics1Literature elective3
BEGÉ-3750 Christian Worldview Development2BEGE-3760 Christian Worldview Integration2HUM-1400 Introduction to the Humanities3PHYS-3110 Intermediate Physics Lab2PHYS-3350 Thermal Physics3PHYS-3410 Electromagnetic Theory I3PHYS-3510 Modern Physics3PHYS-3800 Research Methods in Physics1Literature elective3Physics electives3
BEGÉ-3750 Christian Worldview Development2BEGE-3760 Christian Worldview Integration2HUM-1400 Introduction to the Humanities3PHYS-3110 Intermediate Physics Lab2PHYS-3350 Thermal Physics3PHYS-3410 Electromagnetic Theory I3PHYS-3510 Modern Physics3PHYS-3800 Research Methods in Physics1Literature elective3
BEGÉ-3750 Christian Worldview Development2BEGE-3760 Christian Worldview Integration2HUM-1400 Introduction to the Humanities3PHYS-3110 Intermediate Physics Lab2PHYS-3350 Thermal Physics3PHYS-3410 Electromagnetic Theory I3PHYS-3510 Modern Physics3PHYS-3800 Research Methods in Physics1Literature elective3Physics electives3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 31
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4110 Advanced Physics Lab 2
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4800 Physics Senior Seminar 1
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4800 Physics Senior Seminar 1 Global awareness 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4800 Physics Senior Seminar 1
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4800 Physics Senior Seminar 1 Global awareness 3 History elective 3 Humanities elective 3 Physics elective 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4110 Advanced Physics Lab 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4500 Physics Senior Seminar 1 Global awareness 3 History elective 3 Humanities elective 3
BEGÉ-3750 Christian Worldview Development 2 BEGE-3760 Christian Worldview Integration 2 HUM-1400 Introduction to the Humanities 3 PHYS-3110 Intermediate Physics Lab 2 PHYS-3350 Thermal Physics 3 PHYS-3410 Electromagnetic Theory I 3 PHYS-3510 Modern Physics 3 PHYS-3800 Research Methods in Physics 1 Literature elective 3 Physics electives 3 Electives 6 Total 31 Fourth year: 2 PHYS-4210 Mathematical Methods for Physicists 3 PHYS-4520 Quantum Mechanics I 3 PHYS-4800 Physics Senior Seminar 1 Global awareness 3 History elective 3 Humanities elective 3 Physics elective 3

Teacher Education Licensure Programs Adolescent and Young Adult

The department of science and mathematics joins with the education department to offer adolescent/young adult licensure programs in the following areas:

- Chemistry
- Life Science
- Mathematics Integrated
- Physical Science
- · Physics
- Science Comprehensive Integrated

The course requirements for each licensure field are outlined under each major. However, the following courses are common to all adolescent/young adult majors in this department:

Teacher Education
COM-2300 Voices of Diversity
EDSE-4000 Reading in the Content Area: AYA
EDSE-4100 Principles of Teaching
EDSE-4450 Adolescent/Young Adult Clinical Experience 3
EDSE-4900 Student Teaching and Seminar: AYA 10-12
EDSP-2000 Teaching Children with Exceptionalities
EDSP-2050 Special Education Field Experience 1
EDSP-4000 Principles of Inclusion 1
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian Schools0
EDUC-2000 Introduction to Teaching2
EDUC-2100 Technology in the Classroom
EDUC-2200 Multicultural Field Experience 1
EDUC-2500 Educational Psychology
EDUC-4500 Philosophy of Education2
Specific information regarding admission to the teacher

education program and course descriptions is located in the education department section in this catalog.

Life Science Education – Bachelor of Arts

Course requirements involve 60.5 semester hours including Biology Core Requirements BIO-1110 Introduction to Biology BIO-1120 General Zoology BIO-2250 Cell Biology BIO-2500 General Botany BIO-2600 General Ecology	4 4 4 4 4
BIO-3300 Genetics	
BIO-3710 Biochemistry	4
*BIO-4800 Senior Seminar–Biology	1
Biology Electives selected from the following	
BIO-3410 Invertebrate Zoology	
BIO-3450 Human Structure and Function I	
BIO-3460 Human Structure and Function II	-
BIO-3510 Plant Physiology	
BIO-3520 Plant Taxonomy	
BIO-3610 Environmental Physiology and Ecology	
BIO-4300 Molecular Biology of the Cell	
BIOA-3600 Topics in Environmental Biology	
Physical Science/Mathematics/Science Methods	
CHEM-1110, 1120 General Chemistry I, II	
CHEM-3510 Organic Chemistry I	5
GSCI-1010 Principles of Earth Science	
GMTH-1030 Precalculus	
PHYS-1010 College Physics I	
SCED-3120 Teaching Science Teacher Education	
*Capstone Course	
Capsione Course	

Life Science Education Summary

Proficiency Requirements	0-5
Other General Education Requirements	39-47
Life Science Education Major Requirements	
Teacher Education Requirements	39
Total (minimum, not including proficiency)	

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

Suggested Four-Year Curriculum for a **Major in Life Science Education**

First year: BEGE-1710 Christian Life and Thought

BEGE-1720 Spiritual Formation
BIO-1110 Introduction to Biology
BIO-1120 General Zoology
CHEM-1110, 1120 General Chemistry I, II8
EDUC-1000 The Education Profession1
EDUC-1050 Contemporary Christian Schools0
ENG-1400 Composition3
GMTH-1030 Precalculus4
PEF-1990 Physical Activity and the Christian Life1
Physical Education Activity Elective1
Total
Second year:
BEGE-2730 Old Testament Literature
BEGE-2740 New Testament Literature3
BIO-2500 General Botany4
BIO-2600 General Ecology
BIO-2250 Cell Biology
CHEM-3510 Organic Chemistry I
COM-1100 Fundamentals of Speech
EDSP-2000 Teaching Children with Exceptionalities
EDSP-2050 Special Education Field Experience1
EDUC-2000 Introduction to Teaching2
EDUC-2100 Technology in the Classroom2
EDUC-2200 Multicultural Field Experience
EDUC-2500 Educational Psychology
ED00-2500 Educational Esychology
GSS-1100 Politics and American Culture
GSS-1100 Politics and American Culture

School of Natural and Applied Sciences

Chemistry Education (Bachelor of Arts)

The **chemistry education major** prepares young people to engage the culture as chemistry teachers in the middle school and high school setting, both public and private institutions. Preparing future educators with a heart for Christ and a high view of God's Word.

Course requirements involve 94.5 semester hours including:	
Chemistry Core Requirements	5
CHEM-1010 Principles of Biochemistry5	
CHEM-1110, 1120 General Chemistry I, II	
CHEM-2210 Analytical Chemistry I	
CHEM-2800 Introduction to Research in Chemistry1	
CHEM-3210 Environmental Chemistry4	
CHEM-3410 Inorganic Chemistry	
CHEM-3510 Organic Chemistry I5	
CHEM-3525 Organic Chemistry II for Biologists	
*CHEM-4800 Senior Seminar–Chemistry1	
GBIO-1000 Principles of Biology	
MATH-1710 Calculus I5	
PHYS-1010, 1020 College Physics I, II 10	
SCED-3120 Teaching Science for Adolescent and Young Adult 3	
Teacher Education)
*Capstone Course	

Chemistry Education (B.A.) Summary

Proficiency Requirements	0-5
Chemistry Education Major Requirements	
Teacher Education Requirements	
General Education Requirements	
Total (minimum, not including proficiency)	. 133.5-141.5



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

Suggested Four-Year Curriculum for a Major in Chemistry Education

First	year:
1100	your.

riist year.	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
CHEM-1010 Principle of Biochemistry	5
CHEM-1110, 1120 General Chemistry I,II	
COM-1100 Fundamentals of Speech	
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
ENG-1400 Composition	
GBIO-1000 Principles of Biology	
MATH-1710 Calculus I	5
Total	34.5

Second year:

Second year:	
BEGE-2730 Old Testament Literature	3
CHEM-2210 Analytical Chemistry I	3
CHEM-2800 Introduction to Research in Chemistry	1
EDSP-2000 Teaching Children with Exceptionalities	2
EDSP-2050 Special Education Field Experience	1
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	3
GSS-1100 Politics and American Culture	3
PHYS-1010, 1020 College Physics I, II	10
Literature Elective	3
Total	34

Third year:

inna your.	
BEGE-2740 New Testament Literature	3
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
CHEM-3210 Environmental Chemistry	4
CHEM-3410 Inorganic Chemistry	
CHEM-3510 Organic Chemistry I	
CHEM-3525 Organic Chemistry II for Biologists	4
HUM-1400 Introduction to the Humanities	
SCED-3120 Teaching Science for Adolescent and Young Adult	3
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
Social Science Elective	
Total	

Fourth year:

, out it your	
CHEM-4800 Senior Seminar-Chemistry	1
COM-2300 Voices of Diversity	3
EDSE-4000 Reading in the Content Area: Adolescent Young Adult	3
EDSE-4100 Principles of Teaching	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	3
EDSE-4900 Student Teaching and Seminar: AYA 1	0
EDSP-4000 Principles of Inclusion	1
EDUC-4500 Philosophy of Education	2
History Elective	
Total	31

Mathematics Education – Integrated (Bachelor of Arts)

Course requirements involve 59 semester hours including: Mathematics Core Requirements	
MATH-1710 Calculus I	
MATH-1720 Calculus II	
MATH-1990 Beautiful Math Structures and Thinking	
MATH-2210 Logic and Methods of Proof 3	
MATH-2710 Calculus III 3	
*MATH-3050 Algebraic Structures for Secondary Education 4	
MATH-3110 Probability and Statistics I 3	
MATH-3800 Research Methods in Mathematics 1	
MATH-4410 Euclidean and Non-Euclidean Geometry3	
**MATH-4800 Capstone Experience in Mathematics	
Mathematics Electives 6	
One course selected from the following3	
MATH-3550 Discrete Mathematics: Graph Theory	
MATH-3560 Discrete Mathematics: Combinatorics	
Computer/Math Methods/Physics	17
CS-1210 C++ Programming2	
MATH-2800 LaTeX for Technical Documents1	
MTED-3110 Clinical Teaching in Mathematics1	
MTED-3120 Teaching Mathematics	
PHYS-2110 General Physics I 4	
PHYS-2120 General Physics II 4	
PHYS-2130 General Physics III	
Teacher Education	
*A student may replace MATH-3050 by taking MATH-3500, MATH-3610, and	
MATH-4610.	
**Capstone Course	

Mathematics Education – Integrated Major (B.A.) Summary

Mathematics Education – Integrated Major Re-	-
General Education Requirements	
Teacher Education Requirements	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Mathematics Education (Integrated)

First year:	
BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
COM-1100 Fundamentals of Speech	3
CS-1210 C++ Programming	
EDUC-1000 The Education Profession	1
EDUC-1050 Contemporary Christian Schools	0
ENG-1400 Composition	3
GBIO-1000 Principles of Biology	.3.5
MATH-1710, 1720 Calculus I, II	10
MATH-1990 Beautiful Math Structures and Thinking	3
MATH-2800 LaTeX for Technical Documents (computer elective).	1
PEF-1990 Physical Activity and the Christian Life	1
Physical Education Activity Elective	1
Total	

Second year:

3
2
1
2
2
1
3
3
3
3
1
8
3
32

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-3110 Probability and Statistics I	3
MATH-3050 Algebraic Structures for Secondary Education	4
MATH-4410 Euclidean and Non-Euclidean Geometry	3
MTED-3110 Clinical Teaching in Mathematics	1
Discrete Mathematics Elective	3
MATH-3XXX or 4XXX Elective	3
PHYS-2130 General Physics III	2
Social Science Elective	
Total	35

COM-2300 Voices of Diversity
EDSE-4000 Reading in the Content Area: Adolescent Young Adult3
EDSE-4100 Principles of Teaching
EDSE-4450 Adolescent/Young Adult Clinical Experience
EDSE-4900 Student Teaching and Seminar: AYA 10
EDSP-4000 Principles of Inclusion1
EDUC-4500 Philosophy of Education2
MATH-4800 Capstone Experience in Mathematics
MTED-3120 Teaching Mathematics
History Elective
Total

Physical Science Education (Bachelor of Arts)

Course ve suiversente invelve 71 composter bours includings
Course requirements involve 71 semester hours including:
Physical Science Core
BIO-1110 Introduction to Biology
CHEM-1110, 1120 General Chemistry I, II
CHEM-3510 Organic Chemistry I5
CHEM-3710 Biochemistry 4
GEOL-1110 Introduction to Physical Geology4
GEOL-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
PHYS-2110, 2120, 2130 General Physics I, II, III 10
PHYS-3510 Modern Physics
SCED-3120 Teaching Science
Physics Electives selected from the following
PHYS-3110 Intermediate Physics Lab
PHYS-3310 Theoretical Mechanics I
PHYS-3350 Thermal Physics
PHYS-4110 Advanced Physics Lab 2
PHYS-4520 Quantum Mechanics I 3
Research Methods selected from the following1
CHEM-2800 Introduction to Research in Chemistry 1
PHYS-3800 Research Methods in Physics1
Senior Capstone Experience selected from the following1
*CHEM-4800 Senior Seminar–Chemistry1
*PHYS-4800 Senior Seminar–Physics
Teacher Education
*Capstone Course

Physical Science Education Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Physical Science Education Major Requirements	
Teacher Education Requirements	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Physical Science Education–B.A.

First year:	
BEGÉ-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	
PEF-1990 Physical Activity and the Christian Life	1
PHYS-2110 General Physics I	
Physical Education Activity Elective	1
Total	

Second year:

BEGE-2730 Old Testament Literature	3
BEGE-2740 New Testament Literature	3
BIO-1110 Introduction to Biology	4
CHEM-3510 Organic Chemistry I	5
EDSP-2000 Teaching Children with Exceptionalities	2
EDSP-2050 Special Education Field Experience	1
EDUC-2000 Introduction to Teaching	2
EDUC-2100 Technology in the Classroom	2
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	
ESCI-2310 Introduction to Oceanography	4
GSS-1100 Politics and American Culture	3
MATH-2740 Differential Equations	3
PHYS-2120, 2130 General Physics II, III	
Total	

Third yea

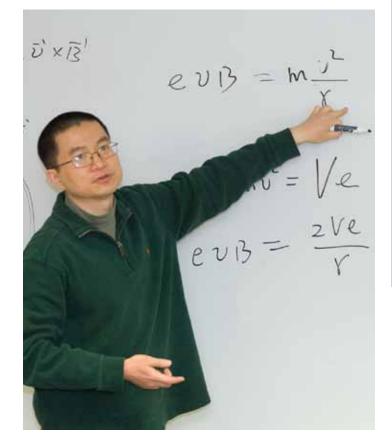
Inira year:	
BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
CHEM-3710 Biochemistry	4
GEOL-1110 Introduction to Physical Geology	4
GEOL-1120 Historical Geology	
ESCI-2510 Introduction to Astronomy	4
HUM-1400 Introduction to the Humanities	
PHYS-3510 Modern Physics	(
PHYS-3800 Research Methods in Physics	
(or CHEM-2800 Introduction to Research in Chemistry	.1
History Elective	(
Literature Elective	
Social Science Elective	(
Total	

COM-2300 Voices of Diversity	3
EDSE-4000 Reading in the Content Area: Adolescent Young A	dult3
EDSE-4100 Principles of Teaching	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	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	
SCED-3120 Teaching Science	3
Physics Elective	3
Total	

Physics Education (Bachelor of Arts)

Physics Education Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Physics Education Major Requirements	68
Teacher Education Requirements	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Physics Education–B.A.

First year:

Thot your.	
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	
EDUC-1000 The Education Profession	
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	
Physical Education Activity Elective	
Total	

Second year:

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	
EDUC-2200 Multicultural Field Experience	1
EDUC-2500 Educational Psychology	3
GBIO-1000 Principles of Biology	4
GSS-1100 Politics and American Culture	3
MATH-2710 Calculus III	3
MATH-2740 Differential Equations	3
PHYS-2120, 2130 General Physics II, III	6
Physics Elective	3
Total	. 38.5

Third year:

milu 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 I	3
PHYS-3510 Modern Physics I	3
PHYS-3800 Research Methods in Physics	1
History Elective	3
Literature Elective	3
Physics Electives	6
Social Science Elective	3
Total	

COM-2300 Voices of Diversity	3
EDSE-4000 Reading in the Content Area: Adolescent Young Adult.	
EDSE-4100 Principles of Teaching	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	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	
PHYS-4110 Advanced Physics Laboratory	2
PHYS-4800 Senior Seminar–Physics	1
SCED-3120 Teaching Science	3
Total	-38

Science Comprehensive Education– Integrated (Bachelor of Arts)

Course requirements involve 73 semester hours including: Biology Core	22
BIO-1110 Introduction to Biology	
BIO-1120 General Zoology	
BIO-2500 General Botany	
BIO-2600 General Ecology	
BIO-3300 Genetics	4
One Biology Elective selected from the following	
BIO-3410 Invertebrate Zoology	
BIO-3450 Human Structure and Function I	4
BIO-3510 Plant Physiology	
BIO-3520 Plant Taxonomy	
BIO-3610 Environmental Physiology and Ecology	
BIO-4300 Molecular Biology of the Cell	
BIOA-3600 Topics in Environmental Biology	
Physical Science/Mathematics/Science Methods	51
*BIO-4800 Senior Seminar-Biology	
CHEM-1110, 1120 General Chemistry I, II	
CHEM-3510 Organic Chemistry I	
CHEM-3710 Biochemistry	
CHEM-2210 Analytical Chemistry I	3
(or CHEM-3520 Organic Chemistry II	5)
CHEM-2800 Introduction to Research in Chemistry	1
GEOL-1110 Introduction to Physical Geology	4
ESCI-2510 Introductory Astronomy	
GEOL-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	
SCED-3120 Teaching Science	
Teacher Education	39
*Constant Course	

*Capstone Course

Science Comprehensive Education-Integrated Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Science Comprehensive Education Major Requirements	73
Teacher Education Requirements	39
Total (minimum, not including proficiency)	151



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

Suggested Four-Year Curriculum for a Major in Science Comprehensive Education

First year:	
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	
EDUC-1000 The Education Profession	
EDUC-1050 Contemporary Christian Schools	0
ENG-1400 Composition	
ESCI-1010 Introduction to Physical Geology	
GMTH-1030 Precalculus	
GSS-1100 Politics and American Culture	
PEF-1990 Physical Activity and the Christian Life	
Physical Education Activity Elective	
Total	

Second year:

Second year.		
BEGE-2730 Old Test	tament Literature	
BEGE-2740 New Tes	stament Literature	
BIO-2500 General B	otany	4
BIO-2600 General E	cology	
CHEM-2800 Introduc	ction to Research in Chemist	ry1
CHEM-3510 Organic	Chemistry I	
CHEM-2210 Analytic	al Chemistry I	
(or CHEM-3520 C	organic Chemistry II	5)
COM-1100 Fundame	entals of Speech	
EDSP-2000 Teaching	g Children with Exceptionaliti	es2
EDSP-2050 Special	Education Field Experience.	1
EDUC-2000 Introduc	tion to Teaching	2
EDUC-2100 Technol	ogy in the Classroom	2
EDUC-2200 Multicul	tural Field Experience	1
EDUC-2500 Educati	onal Psychology	
	, ,,	

Third year:

BEGE-3750 Christian Worldview Development	2
BEGE-3760 Christian Worldview Integration	2
BIO-3300 Genetics	4
CHEM-3710 Biochemistry	4
ESCI-2510 Introductory Astronomy	4
ESCI-XXXX Earth Science Elective	4
HUM-1400 Introduction to the Humanities	3
PHYS-1010, 1020 College Physics I, II	10
Biology Elective	3
Literature Elective	3
Total	39

rounnyca.	
BIO-4800 Senior Seminar–Biology	1
COM-2300 Voices of Diversity	3
EDSE-4000 Reading in the Content Area: Adolescent Young A	dult3
EDSE-4100 Principles of Teaching	5
EDSE-4450 Adolescent/Young Adult Clinical Experience	3
EDSE-4900 Student Teaching and Seminar: AYA	10-12
EDSP-4000 Principles of Inclusion	1
EDUC-4500 Philosophy of Education	2
SCED-3120 Teaching Science	3
History Elective	
Social Science/Global Awareness Elective	
Total	37-39

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.

Actuarial Science Minor

Course requirements for the actuarial science minor invol	ve
40 semester hours including:	
ACCT-2110 Principles of Accounting I	3
ECON-2330 Microeconomics	3
ECON-2340 Macroeconomics	3
FIN-3710 Principles of Finance	3
GMTH-3100 Theory of Interest	3
MATH-1710, 1720, 2710 Calculus I, II, III	13
MATH-3110, 4110 Probability and Statistics I, II	6
MATH-3610 Linear Algebra.	3
MRKT-3600 Principles of Marketing	3

Bioethics Minor

Course requirements for the bioethics minor involve 16.5-1	7.5
semester hours including:	
BEPH-2250 Ethics	3
BEPH-2200 Introduction to Philosophy	3
GBIO-1000 Principles of Biology (or higher-level BIO course)	3.5
GBIO-4700 Bioethics Colloquium	1
Human Studies Elective (select one)	. 3-4
GBIO-2010 Human Anatomy and Physiology	4
BIO-3450 Human Structure and Function I	4
PYCH-1600 General Psychology	3
ANTH-1800 Cultural Anthropology	3
Bioethics Elective (select one)	3
BIO-4710 Principles of Bioethics	3
GBIO-2720 Bioethics and the Human Experience	

Biology Minor

Course requirements for the biology minor involve 19 semester
hours including:
BIO-1110 Introduction to Biology4
BIO-1120 General Zoology
BIO-2500 General Botany4
BIO-2600 General Ecology
Biology Electives4

Chemistry Minor

Course requirements for the chemistry minor involve 19	
semester hours including:	
CHEM-1110,1120 General Chemistry I, II	8
CHEM-2210 Analytical Chemistry I	3
CHEM-3510 Organic Chemistry I	5
Chemistry Electives	3

Earth Science Minor

Course requirements for the earth science minor involve 20	
semester hours including:	
GEOL-1110 Introduction to Physical Geology	4
GEOL-1120 Historical Geology	4
ESCI-2310 Introduction to Oceanography	
ESCI-2410 General Meteorology	
ESCI-2510 Introductory Astronomy	

Mathematics Minor

Physics Minor

Course requirements for the physics minor involve 18 se	emester
hours including:	
PHYS-2110, 2120, 2130 General Physics I, II, III	10
PHYS-3110 Intermediate Physics Laboratory	2
PHYS-3510 Modern Physics	3
Physics Electives	



Special Programs

Preagriculture Curriculum

The preagriculture curriculum is designed to satisfy the technical and non-technical requirements of the first two years of a typical agriculture program. Students should research agricultural schools to which they wish to transfer at the junior level so that application materials can be completed in advance of deadlines. The preagriculture students should confer with their advisor to select electives based on the following criteria:

- The requirements of the school to which they will transfer after leaving Cedarville University
- · The specific agricultural program they wish to enter

Course requirements include core requirements and an emphasis in either agriculture business or agriculture science.

Core requirements include:

BEGE-1710 Christian Life and Thought	3
BEGE-1720 Spiritual Formation	3
BIO-1110 Introduction to Biology	4
CHEM-1110 General Chemistry I	
ENG-1400 Composition	
GMTH-1030 Precalculus	4
(or MATH-1710 Calculus I	5)
GSS-1100 Politics and American Culture	
HUM-1400 Introduction to the Humanities	3

Agriculture Business Emphasis

The agriculture business emphasis prepares students for careers in the industry and business phases of agriculture. Course requirements include:

Two courses selected from	.10
ACCT-2110 Principles of Accounting 3	6
BIO-1120 General Zoology 4	
BIO-2500 General Botany 4	
BIO-2600 General Ecology	
BIO-2210 Microbiology 4	
BIO-3300 Genetics	-
BUS-2150 Statistics	5
ECON-2330, 2340 Micro and Macroeconomics	i
MGMT-3500 Principles of Organization and Management 3	5
MIS-1100 Introduction to Computers 1	
Humanities Electives	6
Social Science Elective	3

Agriculture Science Emphasis

The agriculture science emphasis prepares students for careers including agronomy, animal science, food science, and horticulture. Course requirements include: BIO-1120 General Zoology4 BIO-2500 General Botany4 CHEM-3510, 3520 Organic Chemistry I, II10 MATH-1720 Calculus II5 Biological Science Elective......4 (or CHEM-3710 Biochemistry 4)

Medical Technology Option

A medical technology option is available within the biology major. The student must spend one year in a hospital internship program to become a certified medical technologist. Prerequisites to the hospital internship include: 16 hours of biology, 16 hours of chemistry, one mathematics course, and completion of all general education requirements.

Students may do an internship during their senior year with 32 hours of transfer credit applied to the biology major upon successful completion of the internship. Many students complete the requirements for a biology major first and then take the internship after graduation from Cedarville University.



Predental, Premedical, Preoptometric, Preosteopathic, Physician's Assistant, PrePharmacy, 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:

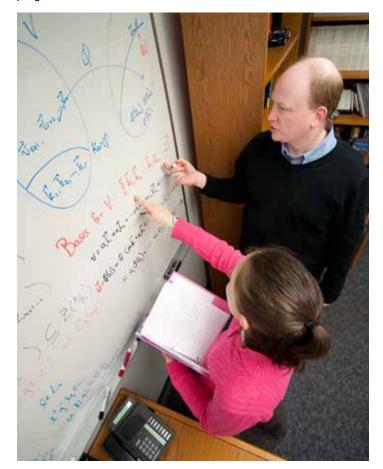
BIO-1110 Introduction to Biology	4
BIO-1120 General Zoology	4
BIO-2210 Microbiology	
BIO-3300 Genetics	
BIO-3420 Vertebrate Zoology	3
(or BIO-4410 Developmental Biology	4)
BIO-3450, 3460 Human Structure and Function I, II	
BIO-4710 Principles of Bioethics	3
or BIO-4770 Pathophysiology	

Chemistry courses:

CHEM-1110, 1120 General Chemistry I, II	8
CHEM-3510, 3520 Organic Chemistry I, II1	
CHEM-3710 Biochemistry	

Additional courses:

MATH-1710, 1720 Calculus I, II10
PHYS-1010, 1020 College Physics I, II10
(or PHYS-2110, 2120 General Physics I, II
Note: Students who desire admission to physician assistant
programs will also need to have 1,000 hours or more of direct
health care experience. Specific requirements vary from one
program to another.



Prephysical Therapy

Many 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 Biology4	,
BIO-1120 General Zoology	
BIO-3300 Genetics	,
BIO-3450, 3460 Human Structure and Function I, II7	•
BIO-4770 Pathophysiology	5

Chemistry courses:

CHEM-1110, 1120 General Chemistry I, II	8
CHEM-3510 Organic Chemistry I	
CHEM-3710 Biochemistry	4

Additional mathematics and science courses: GMTH-1030 Precalculus.....

GMTH-1030	Precalculus	.4
PHYS-1010,	1020 College Physics I, II1	0

Psychology:

(

PYCH-1600 General Psychology	3
PYCH-2600 Human Development: Lifespan	
PYCH-2610 Statistics	
PYCH-2640 Psychology of Abnormal Behavior	3

Other highly recommended electives:

ATRN-2650 Therapeutic Exercise for Athletic Injuries	3
ATRN-3660 Therapeutic Modalities	
BIO-4710 Principles of Bioethics	3
ESS-3920 Biomechanics	3
ESS-3940 Structural Kinesiology	1
ESS-3900 Physiology of Exercise	3

Department of

Social Work, Criminal Justice, and Sociology

School of Social Sciences and Human Performance

Mission Statement

The department of social work, criminal justice, and sociology's mission is to provide students with an educational experiential learning environment in the context of a biblical worldview which will prepare them for service and leadership in our world.

Department Objectives

- 1. Students will develop a Biblical worldview of their respective academic discipline.
- 2. Students will exhibit critical thinking skills in their respective discipline.
- Students will be prepared for graduate study and/or become practitioners in their discipline.
- 4. Students will understand ethical integrity that is based on Scripture and is applicable to their discipline.
- 5. Students will understand the characteristics of diverse populations.
- 6. Students will exhibit effective oral and written communication skills.
- 7. Students will understand the value of service to the local and greater community.

Personal Requirements

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

Department Requirements

To graduate with a degree from the department of Social Work, Criminal Justice, and Sociology, students must earn a cumulative average of 2.0 or above and a "C-" or above in all courses required by their selected major. In addition, all majors must complete the following:*

- 1. A complete senior research project under the direction of a faculty advisor.
- A presentation of selective senior research projects presented to invited faculty, students, and guests.
- Complete the Major Fields Test in their area at the scheduled time during spring semester of their senior year (as appropriate).

*Admissions and graduation requirements for social work are listed on page 191.



Programs of Study

The department of Social Work, Criminal Justice, and Sociology offers the following programs of study:

- Bachelor of Arts (B.A.) in:
 - Criminal Justice
 - Sociology

Bachelor of Science (B.S.) in:

- *Forensic Science
- Social Work

*In cooperation with science and mathematics; see page 169.

- Minors
 - Criminal Justice
 - Sociology

Co-Curricular Opportunities

Each major has several professional organizations in which students may participate. Students can also broaden their understanding and knowledge through a variety of travel opportunities, internships, and student organizations.

Alpha Delta Nu

Alpha Delta Nu provides criminal justice students with the opportunity to enhance their professional development. Members are students who believe that a career in criminal justice is a ministry in a God-ordained institution, which is government. This organization promotes Christian character, leadership, and service through training, information, and networking to supplement academic studies. The society assists students to prepare for a transition to their professional field as practitioners.

Epsilon Alpha Pi

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

Epsilon Omega

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

Technical Resources

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

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

Several of the department programs prepare students for careers directly following graduation. Through a variety of modalities (including field work and class presentation by practitioners), students are able to network with actual career representatives and on occasion be exposed to the technologies being utilized by a career area.

Social Work, Criminal Justice, and Sociology

School of Social Sciences and Human Performance

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
- Minister
- Children's services social worker
- Community developer
- Probation officer
- Forensic scientist
- Government worker

- Medical social worker
 - Mental health social worker
 - Parole agent
 - Police officer
 - Prison caseworker
 Prison manager (warden)
 - Federal law enforcer
- School social worker
- Senior citizen center outreach worker

Faculty

Nelson Henning, *Chair;* 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. Licensed Independent Social Worker. At Cedarville since 1994. Christine Fulmer, Associate Professor of Social Work. *Education:* B.S., Baptist Bible College, 1990; M.S.W., Marywood University, 1996. Licensed Independent Social Worker-Supervisor. At Cedarville since 2004.

Julie Furj. Assistant Professor of Social Work. *Education:* B.S.W., Philadelphia Biblical University, 2000; M.S.W., The University of Pennsylvania, 2004. At Cedarville since 2008.

George Huff, Associate Professor of Social Work. *Education:* B.A., Ashland University, 1973; M.S.S.A., Case Western Reserve University, 1977. Licensed Independent Social Worker-Supervisor. At Cedarville since 2000.

Patrick Oliver, Assistant Professor of Criminal Justice. *Education:* A.A., University of Cincinnati, 1977; B.A., Baldwin Wallace College, 1981; M.B.A., Baldwin Wallace College, 1991; Penn State University Police Executive School, 1989; FBI Law Enforcement Executive Development School, 1993; Ohio Association Chiefs of Police Executive Leadership College, 1994; Executive Management Institute, 1997. At Cedarville since 2005. **Robert Parr**, Professor of Sociology. *Education:* B.R.E., Grand Rapids Baptist College, 1967; M.R.E., Grand Rapids Baptist Seminary, 1970; M.A., Michigan State University, 1982; M.S.W., The Ohio State University, 1990; Ph.D., The Ohio State University,

1987. At Cedarville since 1980. **Robert Vaughn,** Assistant Professor of Criminal Justice. *Education:* B.A., The Ohio State University, 1993; J.D., Capital University Law School, 1998. At Cedarville since 2009. **Susan Warner**, Associate Professor of Sociology. *Education:* B.A., Baldwin-Wallace College, 1994; M.A., University of Akron, 1996; Ph.D., University of Akron, 2000. At Cedarville since 1999.

Donald Hanna, Associate Professor of Criminal Justice. Retired. *Education:* B.A., Indiana University, 1959; M.A., University of Illinois, 1969; Senior Police Management Institute, 1988. At Cedarville since 1995 to 2008.

Robert Wiggins, Professor of Criminal Justice and Public Administration. Retired. *Education:* B.Th., Baptist Bible College and Seminary, 1964; B.A., Olivet Nazarene University, 1966; graduate study, Temple University, 1966-68; M.S., The American University, 1970; Ph.D., The University of Texas at Arlington, 1987; postdoctoral study, The University of Texas at Dallas, 1987-88. At Cedarville from 1992 to 2004.



School of Social Sciences and Human Performance

Criminal Justice

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The **criminal justice major** prepares students for careers in the criminal justice system. Such careers include law enforcement and correctional activities at all levels of government that have the potential to progress to positions of leadership. The curriculum for the criminal justice major follows criteria proposed by the Academy of Criminal Justice Sciences.

Course requirements involve 65 semester hours including:	
Criminal Justice Core	
BEPT-3510 Introduction to Urban Ministries	3
CRJU-1310 Introduction to Criminal Justice	3
CRJU-1350 Career Planning for Criminal Justice Personnel	
CRJU-2200 Criminology	
CRJU-2310 Juvenile Delinquency	
CRJU-3300 Corrections	
CRJU-3350 Criminal Law	3
CRJU-3360 American Judicial System	3
CRJU-3400 Criminal Procedure	3
CRJU-3410 Ethics and Civil Liability/Criminal Justice	
Personnel	
CRJU-3700 Financial Management	
CRJU-3990 Criminal Justice Internship	
CRJU-4150 Homeland Security	3
CRJU-4200 Police Administration	-
CRJU-4320 Criminal Investigation	
CRJU-4330 Contemporary Issues in Criminal Justice	
CRJU-4630 American Constitutional Law	
*CRJU-4900 Research Issues in Criminal Justice	
ECON-2110 Essentials of Economics	
GSS-3630 Data Analysis and Research Methodology	
POLS-2620 American State and Local Government	-
PUAD-3600 Public Administration	3

Recommended Electives

CRJU-2840 Concepts of Chemical Dependency	
CRJU-3310 Corrections Administration	3
CRJU-3390 Criminal Evidence	3
CRJU-4440 Criminal Justice Special Topics	1-3
CRJU-4960 Independent Study in Criminal Justice	1-3
PYCH-2640 Abnormal Psychology	3
PYCH-2800 Addictions	
*Capstone course	

Criminal Justice Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	
Criminal Justice Major Requirements	65
General Electives	
Total (minimum, not including proficiency)	

Suggested Four-Year Curriculum for a Major in Criminal Justice

BEGE-1710 Christian Life and Thought	
BEGE-1720 Spiritual Formation	
COM-1100 Fundamentals of Speech	
CRJU-1310 Introduction to Criminal Justice	
CRJU-1350 Career Planning for Criminal Justice Personnel	
ENG-1400 Composition	
GSS-1100 Politics and American Culture	3
HUM-1400 Introduction to the Humanities	3
PEF-1990 Physical Activity and the Christian Life	1
Biological Science Elective	
History Elective	
Literature Elective	
Total	
Second year:	
Second year: BEGE-2730 Old Testament Literature	3
BEGE-2730 Old Testament Literature	3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology	3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency	3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics	3 3 3 3
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics POLS-2620 American State and Local Government	
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics POLS-2620 American State and Local Government Humanities Elective	
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics POLS-2620 American State and Local Government Humanities Elective Physical Education Activity Elective	
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics POLS-2620 American State and Local Government Humanities Elective Physical Education Activity Elective Physical Science Elective	
BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature CRJU-2200 Criminology CRJU-2310 Juvenile Delinquency ECON-2110 Essentials of Economics POLS-2620 American State and Local Government Humanities Elective Physical Education Activity Elective	3 3 3 3 3 3 3 3 3 1 1 3.5 6

Third year:

BEGE-3750 Christian Worldview Development	.2
CRJU-3300 Corrections	
CRJU-3350 Criminal Law	.3
CRJU-3360 American Judicial System	.3
CRJU-3400 Criminal Procedure	
CRJU-3410 Ethics and Civil Liability/Criminal Justice Personnel	.3
CRJU-3700 Financial Management	.3
CRJU-3990 Criminal Justice Internship	.3
GSS-3630 Data Analysis and Research Methodology	.4
PUAD-3600 Public Administration	.3
Electives	.3
Total	

Fourth year:

, out it your	
BEGE-3760 Christian Worldview Integration	2
BEPT-3510 Introduction to Urban Ministries	3
CRJU-4150 Homeland Security	3
CRJU-4200 Police Administration	3
CRJU-4320 Criminal Investigation	
CRJU-4330 Contemporary Issues in Criminal Justice	3
CRJU-4630 American Constitutional Law	3
CRJU-4900 Research Issues in Criminal Justice	3
Electives	8
Total	

Forensic Science

Interested students may consider a Bachelor of Science degree with a major in **forensic science**. This is an undergraduate interdisciplinary degree program with an emphasis on advanced (upper-level) coursework and substantial laboratory work in the sciences. Student completing this program will also earn a minor in criminal justice and participate in an internship in a state crime laboratory their junior and senior years. This program is provided in partnership with the science and mathematics department. Program requirements can be found on page 169.

Sociology

The sociology major examines the social interaction of individuals in groups, organizations, and institutions. Particular attention is given to the cultural environment in which people live. Courses evaluate the influence of that environment and the relationships established in them, in light of scriptural norms and a biblical view of God, society, and the individual.

Course requirements involve 37 semester hours including:	
ANTH-1800 Cultural Anthropology	3
GSS-3630 Data Analysis and Research Methodology	4
PYCH-1600 General Psychology	3
PYCH-3690 Social Psychology	3
SOC-1300 Introduction to Sociology	
SOC-3340 Sociology of Religion	
SOC-3750 Social Movements	
SOC-4720 Social Theory	3
*SOC-4800 Research in Sociology	3
Elective hours in Sociology	
*Capstone Course	

Sociology Major Curriculum Summary

Proficiency Requirements	0-5
Other General Education Requirements	43-51
Sociology Major Requirements	
Electives	
Total (minimum, not including proficiency)	



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

Suggested Four-Year Curriculum for a Major in Sociology

First year: ANTH-1800 Cultural Anthropology 3 BEGE-1710 Christian Life and Thought 3 BEGE-1720 Spiritual Formation 3 COM-1100 Fundamentals of Speech 3 ENG-1400 Composition 3 GSS-1100 Politics and American Culture 3 HUM-1400 Introduction to the Humanities 3 PEF-1990 Physical Activity and the Christian Life 1 PYCH-1600 General Psychology 3 SOC-1300 Introduction to Sociology 3 Biological Sciences Elective 3.5 Physical Education Activity Elective 1 Total 32.5	
Second year: BEGE-2730 Old Testament Literature BEGE-2740 New Testament Literature History Elective 3 Literature Elective 3 Physical Science Elective 15 Total 30.5	
Third year: BEGE-3750 Christian Worldview Development. 2 BEGE-3760 Christian Worldview Integration 2 GSS-3630 Data Analysis and Research Methodology 4 PYCH-3690 Social Psychology. 3 SOC-3340 Sociology of Religion 3 SOC-3750 Social Movements 3 Electives 15 Total 32	
Fourth year: SOC-4720 Social Theory	



School of Social Sciences and Human Performance

Social Work

The **social work major** prepares students for future ministries/ careers in professional social work, professional church and church-related specializations, and informal assistance. The wide range of opportunities within the social work field provides graduates with numerous ways of investing in the lives of individuals, families, groups, and communities.

The social work program is accredited by the Council of Social Work Education. Social work graduates are eligible for licensure and for advanced standing in graduate schools of social work.

Mission Statement

The mission of the Cedarville University Social Work Program is to prepare students to lead in serving those in need as professional generalist social workers by empowering them with the knowledge, values, and skills of the profession from a Biblical worldview.

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:

- 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.
- 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.
- 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 baccalaureate social work program will be able to:

- 1. Apply critical thinking skills within the context of professional social work practice.
- Integrate Christian beliefs and values with professional social work values and ethics as set forth in the code of ethics.
- Practice without discrimination and with respect, knowledge, and skills related to client's age, class, color, culture, political ideology, disability, ethnicity, family structure, gender, marital status, national origin, race religion, political and sexual orientation.
- Identify the issues underlying the conditions of poverty, oppression, and discrimination and apply strategies of advocacy and social change that advance social and economic justice nationally and globally.
- 5. Comprehend and interpret the history of the social work practice and its contemporary structures and issues.

- Apply the knowledge and skills of generalist social work to practice with systems of all sizes and in the context of the church.
- 7. Apply knowledge of bio-psycho-social-spiritual variables and use theoretical frameworks supported by empirical evidence to interpret individual development and behavior across the life span and the interaction among individuals and between individuals and families, groups, organizations, and communities.
- 8. Analyze, formulate, and influence social policies.
- 9. Evaluate research studies, apply research findings to practice under supervision, and evaluate their own practice interventions.
- 10. Use communication skills differentially across client populations, colleagues, and communities
- 11. Utilize supervision and consultation appropriate to generalist practice.
- 12. Function within the structure of organizations and service delivery systems and, under supervision, seek necessary organizational change.

Social Work Advisory Council

The Social Work Advisory Council consists of social work professionals, agency administrators, clergy, and educators representing public, private, and church-related service agencies. Through semi-annual meetings, these experts advise the program and evaluate its plans for training skilled social work professionals with a commitment to core values and a biblical world and life view. Council members include:

Nelson Henning, Advisory Council Chair, Cedarville University, Cedarville, OH

Joan Fleming, Kirkmont Presbyterian Church, Beavercreek, OH

Christine Fulmer, Cedarville University, Cedarville, OH Julie Furj, Cedarville University, Cedarville, OH Sharon Guenther, Miami Valley Hospital, Dayton, OH Sarah Hamilton, Senior Student Representative, Cedarville University, Cedarville, OH

Faith Handley, Junior Student Representative, Cedarville University, Cedarville, OH

George Huff, Cedarville University, Cedarville, OH Sonia Hunt, National Heritage Academy, Dayton, OH Michael Kessler, Rocking Horse Center, Springfield, OH Esther Lanham, Advisory Council Secretary, Cedarville University, Cedarville, OH

Debbie Matheson, Family Violence Prevention Center, Xenia, OH

Cari Maynard, Adoption Consultant, Grove City, OH

- Greg Meriwether, Dept. of Veteran Affairs Readjustment Counseling Services, Dayton, OH
- Denise Summerville, Greene County Board of MRDD, Xenia, OH
- Deanna Throop, Social Work Consultant, Xenia, OH
- Eric Van Vlymen, Alzheimer's Association, Dayton, OH Jan White, Greene County Juvenile Court Administrator,
- Xenia, OH
- Natalie Wilkins, Advisory Council Secretary, Cedarville University, Cedarville, OH
- Emily Wolf, The Glen at St. Joseph, Dayton, OH

Social Work, Criminal Justice, and Sociology

School of Social Sciences and Human Performance

Admission to the Social Work Program

Admission to the social work program occurs during the sophomore year. Freshmen and sophomores interested in social work should declare their intent to major in social work and meet with an appropriate advisor to ensure that courses are taken in the proper sequence.

Admission Requirements and Procedures

- 1. Complete at least 42.5 hours of the general education requirements, including the necessary prerequisites. (Submit a summary of prerequisites.)
- 2. Complete SWK-1100 Total Immersion Experience with a "C" or better by the junior year.
- Complete SWK-2330 Introduction to Social Work with a "C" or better by the junior year.
- 4. Complete SWK-2350 Field Experience 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.
- 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 2.25 or above. Submit a copy of your current unofficial grade transcript from CedarNet.
- 9. Complete and document 40 hours of post high school social service volunteer experience (submit form).
- Provide a background check for the State of Ohio and an additional FBI background check for those who live out of state.
- 11. Submit a social work program handbook sign off sheet.

The final decision as to whether all requirements are adequately met for admission to and progression in the social work program will be made by the social work program director.







Course Requirements

Course requirements for the B.S. degree with a major in social work involve 85.5 semester hours including:1ANTH-1800 Cultural Anthropology31BEPH-2200 Introduction to Philosophy31GBIO-1000 Principles of Biology3.51HIST-3750 Social Movements3POLS-2620 American State and Local Government3PYCH-1600 General Psychology3SOC-1300 Introduction to Sociology32SWK-2330 Introduction to Social Work22SWK-2350 Field Survey22SWK-2900 Ethics in the Helping Professions33SWK-3010 Human Behavior and Social Environment43SWK-3020 Generalist Social Work Practice with Multicultural Groups33SWK-3110 Social Welfare Programs and Policy4
³ SWK-3210 Social Work Practice with Individuals and Families
³ SWK-3430 Junior Seminar I1
³ SWK-3440 Junior Field Experience I3
³ SWK-3450 Junior Seminar II1
³ SWK-3460 Junior Field Experience II
^{1.3} SWK-3610 Data Analysis
³ SWK-4210 Social Work Practice with
Special Populations
³ SWK-4220 Social Work Practice with Communities and
Organizations4
³ *SWK-4510 Senior Seminar I2
³ *SWK-4520 Senior Seminar II2
³ *SWK-4560 Senior Field Experience I7
³ *SWK-4570 Senior Field Experience II7
¹ Satisfies general education requirement.

²Available to non-majors.

³Available only to social work majors who have been accepted into the program. *Capstone Course

Recommended elective:

3

Social Work Major Curriculum Summary

Total (minimum, not including proficiency)	128
Social Work Major Requirements	85.5
Other General Education Requirements	42.5
Proficiency Requirements	0-5

Because of the specific, sequential course requirements involved, completion of the program in four years requires careful planning. Failure to take courses in their sequential order may result in a fifth year for completion. Transfer students, particularly those transferring in as juniors, will most likely require three years of study at Cedarville to complete program requirements.

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

Suggested Four-Year Curriculum for a **Major in Social Work**

First year:
BEGE-1710 Christian Life and Thought
BEGE-1720 Spiritual Formation
COM-1100 Fundamentals of Speech
ENG-1400 Composition
GBIO-1000 Principles of Biology
PEF-1990 Physical Activity and the Christian Life
POLS-2620 American State and Local Government
PYCH-1600 General Psychology
SUC-1300 Introduction to Sociology
SWK-2330 Introduction to Social Work
SWK-2350 Field Survey
Total
Second year:
ANTH-1800 Cultural Anthropology
BEGE-2730 Old Testament Literature3
BEGE-2740 New Testament Literature
BEPH-2200 Introduction to Philosophy3
GSS-1100 Politics and American Culture
HIST-3750 Social Movements
HUM-1400 Introduction to the Humanities3
SWK-2900 Ethics in the Helping Professions
Physical Education Activity Elective1
Physical Science Elective
Salanaa/Math Elaatiya
Science/Math Elective
Total
Total
Total 31.5 Third year: 31.5 BEGE-3750 Christian Worldview Development 2 SWK-3010 Human Behavior and Social Environment 4 SWK-3020 Generalist Social Work Practice with Multicultural Groups 3 SWK-3110 Social Welfare Programs and Policy 4 SWK-3210 Social Work Practice with Individuals and Families 4
Total 31.5 Third year: 31.5 BEGE-3750 Christian Worldview Development 2 SWK-3010 Human Behavior and Social Environment 4 SWK-3020 Generalist Social Work Practice with Multicultural Groups 3 SWK-3110 Social Welfare Programs and Policy 4 SWK-3210 Social Work Practice with Individuals and Families 4 SWK-3430, 3450 Junior Seminar I, II 2
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Total 31.5 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 Groups 3 SWK-3110 Social Welfare Programs and Policy 4 SWK-3110 Social Work Practice with Individuals and Families 4 SWK-3430, 3450 Junior Seminar I, II 2 SWK-3440, 3460 Junior Field Experience I, II 6 Literature Elective 3 Science/Math Elective (Bioethics recommended) 31 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

Minors

Criminal Justice Minor

Course requirements for a minor in criminal justice invol-	ve 18
semester hours including:	
CRJU-1310 Introduction to Criminal Justice	3
CB.IU-XXXX Criminal Justice Electives	15

Sociology Minor

Course requirements for a minor in sociology involve 1	8
semester hours including:	
SOC-1300 Introduction to Sociology	3
SOC-XXXX Sociology Electives	15

Course Descriptions

Course Descriptions ACCT-2110 – AES-3311

Accounting (ACCT) ACCT-2110 Principles of Accounting I-Fa, Sp

3 hours

An introduction to accounting for business organizations with an emphasis on financial statement preparation and interpretation. Topics include the accounting cycle, present value, and accounting for stock and debt instruments. Prerequisite: sophomore status.

ACCT-2120 Principles of Accounting II-Fa, Sp 3 hours

A continuation of accounting for business organizations. Topics include cash flow statements, investments, and managerial accounting concepts. Prerequisite: ACCT-2110 Principles of Accounting I.

ACCT-3110 Intermediate Financial Accounting I-Fa 3 hours

Theoretical concepts and accounting standards that form the basis for accounting practices, financial statement preparation, and analysis. Topics include financial statement formats, present value, and accounting for receivables and inventory. Prerequisite: ACCT-2120 Principles of Accounting II.

ACCT-3120 Intermediate Financial Accounting II-Sp 3 hours

Continuation of theoretical concepts and accounting standards that form the basis for accounting practices and financial statement preparation and analysis. Topics include: accounting for fixed assets, intangible assets, current liabilities, long-term debt, and stockholders' equity. Prerequisite: ACCT-3110 Intermediate Financial Accounting I.

ACCT-3150 Accounting Information Systems-Fa 3 hours

A study of the flow of information through the accounting system, emphasizing systems analysis and design, internal controls, and computer applications in the business environment. Prerequisites: ACCT-2120 Principles of Accounting II; MIS-1500 Information Technology for Business; junior status.

ACCT-3170 Managerial Accounting-Sp

3 hours

Principles of industrial and distribution cost accounting, job order and process cost systems, and standard costs. Prerequisite: ACCT-2120 Principles of Accounting II.

ACCT-4110 Federal Income Taxes-Fa 3 hours

Proper preparation of federal income tax returns for individuals, partnerships, and corporations. Students are introduced to income tax planning and the effect of income taxes on business decisions. Prerequisite: ACCT-2120 Principles of Accounting II.

ACCT-4120 Auditing-Fa

3 hours

A study of auditing standards and related auditing procedures. Topics include evaluation of audit evidence, professional responsibilities, and auditors' reports and opinions. Prerequisite: ACCT-3120 Intermediate Financial Accounting II.

ACCT-4130 Advanced Financial Accounting-Sp

3 hours A study of consolidated financial statements, foreign exchange, estates and trusts, branch accounting, and related problems. Prerequisite: ACCT-3120 Intermediate Financial Accounting II. ACCT-4150 3 hours

Government and Nonprofit Accounting-Fa

Accounting and reporting principles, standards, and procedures applicable to nonprofit organizations. Prerequisite: ACCT-3120 Intermediate Financial Accounting II or permission of instructor. ACCT-4170 Advanced Managerial Accounting-Sp 3 hours

Advanced topics in accounting for manufacturing companies and the use of the computer in cost accounting applications. Prerequisite: ACCT-3170 Managerial Accounting.

ACCT-4190 CPA Review-Sp

3 hours

Comprehensive review of the application of accounting principles, using specific problems and development of approaches to problem solving. Useful as intensive preparation for the CPA examination. Prerequisite: ACCT-3120 Intermediate Financial Accounting II.

ACCT-4210 Taxation of Business Entities-Sp 3 hours

An examination of the tax provisions governing C Corps, S Corps, partnerships, and estates. Analyzes international and multistate taxation of corporations. Prerequisite: ACCT-4110 Federal Income Taxes. 1 hour

ACCT-4810 Seminar in Accounting-Sp

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.

Air Force ROTC (AES) AES-1210,1220 The Air Force Today

1 hour/sem

3 hours/sem

A survey course designed to introduce students to the United States Air Force and the Air Force Reserve Officer Training Corps (ROTC). Featured topics include the mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer career opportunities, group leadership problems, and an introduction to communication skills. AES-1211 0 hours

Leadership Laboratory (GMC): Applied Air Force ROTC Training

This lab provides an opportunity for students to apply Air Force procedures, techniques, and knowledge. Students will learn the Air Force organizational structure as well as customs and courtesies. GMC cadets will also develop their followership and teamwork skills in a cadet-led, cadre-supervised lab environment. Taken concurrently with 1000-level AES courses. Credit/no credit. 1 hour/sem AES-2210,2220 History of the Air Force

A survey course designed to provide students with an overview of the general aspects of air and space power through a historical perspective. It begins with the first military application of balloons through the actions in Kosovo and Afghanistan. It also shapes communication skills introduced in the freshman year. **AES-2211** 0 hours

Leadership Laboratory (FTP): Applied Air Force ROTC Training

This lab further develops skills and concepts introduced in the GMC Leadership Laboratory. Students are prepared mentally and physically for the demanding requirements of the upcoming Field Training summer program. Training is cadet-led, where the students will display their ability to apply Air Force concepts and procedures. Taken concurrently with 2000-level AES courses. Credit/no credit.

AES-3310,3320

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. 0 hours

AES-3311

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

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 is sues. Considered the capstone ROTC course with continued refinement of communication skills.

AES-4311

0 hours

1-3 hours

3 hours

4 hours

3 hours/sem

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.

Allied Health (ALHL)

ALHL-4950 Allied Health Seminar I-Fa 2 hours Students will research a topic of interest from their chosen allied health field in preparation for giving a scholarly presentation of their findings in ALHL-4960 Health Science Seminar II. Students will be encouraged to collaborate with a practicing clinician for advice and counsel. Prerequisite: EXSC-4600 Research in

Exercise Science ALHL-4960 Allied Health Seminar II-Sp

1 hour Students will prepare a scholarly presentation based on research done in ALHL-4950 Allied Health Seminar I with specific attention given to integrating concepts across disciplines from a Christian worldview. Students will be encouraged to collaborate with a practicing clinician for advice and counsel. Presentations will be given to a panel of allied health professionals. (Fee: \$25)

Anthropology (ANTH)

ANTH-1800 Cultural Anthropology-Fa, Sp

3 hours Analysis of the concept and its importance for the study of man; an examination of various cultures of the world as they relate to technological, economic, social, political, and religious aspects of these cultures.

ANTH-4940

ARBC-1400

Independent Study in Anthropology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Arabic Language (ARBC)

Introduction to Arabic Language and Culture

Introduction of the Arabic script and basic vocabulary used for greetings and other everyday situations. Introduction to various aspects of Arab culture, including history, religion, literature, politics, and daily life. This course is intended for non-native speakers with no previous Arabic study. This course satisfies the global awareness course requirement.

ARBC-1410 Elementary Arabic I-Fa

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. ARBC-1420 Elementary Arabic II-Sp 4 hours

Development of basic skills in reading, writing, speaking, and listening in Arabic, along with an introduction to Arabic culture. Prerequisites: ARBC-1410 Elementary Arabic I, instructor's approval, or placement by exam.

ARBC-2410 Intermediate Arabic I-Fa

4 hours

3 hours

3 hours

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. Prerequisites: ARBC-1410 Elementary Arabic I and ARBC-1420 Elementary Arabic II, instructor's approval, or placement by exam

ARBC-2420 Intermediate Arabic II-Sp

Development of all four language skills through grammar review, composition, conversation, and readings in Arabic literature and culture. Prerequisites: ARBC-1410 Elementary Arabic I, ARBC-1420 Elementary Arabic II, ARBC-2410 Intermediate Arabic I, instructor's approval, or placement by exam.

Art (ART)

ART-1100 Introduction to Art–Fa

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. 3 hours

ART-1210 Drawing I-Fa, Sp

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

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

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

Theory and application of compositional elements and principles of design and visual organization. Manipulation of two- and three-dimensional forms to explore their expressive and structural possibilities. Prerequisites: ART-1210 Drawing I; ART-2210 Design I. (Fee: \$75) 3 hours

ART-2250 Creative Photography-Sp

Students will learn and apply technical knowledge and aesthetic techniques necessary to produce creative, well composed, quality black and white photographs. Additionally, students will gain historical and contemporary knowledge and appreciation of photography as a medium for artistic expression. (Fee: \$50) ART-3210 Painting I-Fa 3 hours

Studio. Exploration and basic understanding of use of color and light in representing form and space. Development of composition. Use of watercolor and oil. Prerequisites: ART-1210 Drawing I; ART-2210 Design I. (Fee: \$75) 3 hours

ART-3220 Painting II-Sp

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) 3 hours ART-3310 Art History I-Fa

Survey of the development of Western art and architecture from the ancient world through the High Renaissance.

3 hours

3 hours



ART-3320 - ATRN-3660

ART-3320 Art History II-Sp

3 hours

Survey of architecture, painting, sculpture, and the graphic arts from Mannerism and the Baroque to the present. Prerequisite: ART-3310 Art History I.

ART-3330 Three-Dimensional Design-Fa

3 hours

Application of principles of design and visual organization with emphasis on volume, mass, and rendering forms in space. Prerequisite: ART-1100 Introduction to Art, ART-1210 Drawing I. ART-1230 Design I. (Fee: \$100)

ART-3410 Ceramics-Sp

3 hours

Provides an introduction to clay from construction to finished fired pieces. Students will build forms using basic hand-building techniques and the potter's wheel. Surface decoration will be emphasized using color, texture, and glazes. Prerequisites: ART-1230 Design I, ART-3330 Three-Dimensional Design. (Fee: \$115) ART-3510 Introduction to Printmaking-Fa 3 hours

An introduction to intaglio and relief printmaking processes. Prerequisites: ART-1220 Drawing II; ART-2220 Design II. (Fee: \$125)

ART-3610 Sculpture-Sp

3 hours

An exploration of basic studio sculpting including additive and subtractive methods in a variety of media: carving, modeling, casting, and assemblage. Prerequisites: ART-1230 Design I, ART-3330 Three-Dimensional Design. (Fee: \$125)

ART-3710 Studio I-Fa

3 hours

This course allows the studio art major an opportunity to explore a concentration within a particular studio discipline. Prerequisites: ART-1210 Drawing I and ART-1220 Drawing II, or ART-3210 Painting I and ART-3220 Painting II. (Fee: \$125) ART-4100 Studio II-Sp 3 hours

This course allows the studio art major an opportunity to explore a particular studio discipline or may be a continuation of work completed in Studio I, allowing the student a concentration in that particular discipline. Prerequisites: ART-1210 Drawing I and ART-1220 Drawing II, or ART-3210 Painting I and ART-3220 Painting II, and ART-3710 Studio I. (Fee: \$125)

ART-3710 Studio III-Fa

3 hours

This course allows the studio art major an opportunity to explore a particular studio discipline or may be a continuation of work completed in Studio I (and/or) Studio II, allowing the student a concentration in that particular discipline. Prerequisites: ART-1210 Drawing I and ART-1220 Drawing II, or ART-3210 Painting I and ART-3220 Painting II, ART-3710 Studio I, ART-4100 Studio II. (Fee: \$125)

ART-4300 Art Exhibition-Sp

3 hours

Designed to provide the student a hands-on experience in mounting an art exhibition. Topics include archival matting and framing, lighting, and hanging techniques; as well as publicity and signage. Studio work is a requirement to balance a portfolio of work for a senior exhibition. Capstone course. Prerequisite: senior studio art maior status.

ART-4400 20th Century Art-Fa

3 hours

Investigation of the development of 20th century art history from Post-Impressionism to the present. Particular attention to the underlying worldviews and changes in media. Classroom lectures are supplemented with student research, critique and museum studies. (odd years)

ART-4440 Installation Art-Fa

3 hours

Survey of Installation Art, culminating in student directed projects, executed on and off campus. Prerequisite: ART-4400 20th Century Art recommended. (Fee: \$125) (even years)

ART-4980 Special Topics in Art-Fa, Sp, Su

1-2 hours

This is a workshop for students who are interested in a collaborative studio learning experience in applied art. Applied areas offered include painting (watercolor, oil, acrylic), pottery, or photography. Rotation of course content will be determined by faculty schedules. In instances where Cedarville University faculty are acting as instructors in professional workshops held off-campus, Cedarville University students who participate and pay Cedarville tuition can earn elective credit. Actual contact hours would determine amount of credit granted. Prerequisite: permission of the instructor. (Fee: \$75).

ART-4990 Independent Study in Art 1-3 hours Independent and intensive study in a particular area of art for individual students who demonstrate special interests and ability.

Athletic Training (ATRN)

5 hours

ATRN-1550 Basic Athletic Training-Sp 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; GBIO-2010 Human Anatomy and Physiology. (Fee: \$35)

5 hours ATRN-2570 Upper Body Injury Management-Sp Comprehensive evaluation, management, and initial rehabilitation of athletic injuries involving the upper portion of the human body. Prerequisites: ATRN-1550 Basic Athletic Training; GBIO-2010 Human Anatomy and Physiology. (Fee: \$35) ATRN-2650 3 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. Prerequisites: ATRN-1550 Basic Athletic Training or permission of instructor.

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. Students are responsible for identifying an appropriate SMC and for making all necessary arrangements prior to completing their observation. Sites must be approved by the program director by reviewing an application completed by the student. Applications are available from the program director. Prerequisites: ATRN-1550 Basic Athletic Training; permission from the director of athletic training. Credit/no credit. 2 hours

ATRN-3550

Organization and Administration in Athletic Training-Fa

Management of the athletic training program and facility at all levels of sport. Topics include budgets, policies, design, recordkeeping, and legal aspects of athletic training. 5 hours

ATRN-3660 Therapeutic Modalities-Fa

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)

Course Descriptions

ATRN-3920

3 hours

1 hour

Supervised Experience in Athletic Training–Upper Body–Sp

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to an approved clinical instructor and assist the athletic training staff in providing services. Prerequisites: ATRN-2560 Lower Body Injury Management: ATRN-2570 Upper Body Injury Management. ATRN-3930 3 hours

Supervised Experience in Athletic Training – Lower Body–Fa

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to an approved clinical instructor and assist the athletic training staff in providing services. Prerequisites: ATRN-2560 Lower Body Injury Management; ATRN-2570 Upper Body Injury Management. ATRN-4560 Medical Aspects of Athletic Training-Fa 3 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

A study of the current significant issues in athletic training with an emphasis on legal/ethical issues and professional development. 1-3 hours

ATRN-4850

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 3 hours

Supervised Experience in Athletic Training – Athletic Training Facilities-Sp

A practicum course that allows the student to demonstrate mastery of clinical proficiency by applying course content to the actual practice of athletic training. Students will be assigned to an approved clinical instructor and assist the athletic training staff in providing services. Prerequisites: ATRN-3920 Supervised Experience in Athletic Training – Upper Body; ATRN-3930 Supervised Experience in Athletic Training – Lower Body **ATRN-4940** 4 hours

Supervised Experience Athl. Training – Collision Sports-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 Supervised Experience in Athletic Training – Upper Body; ATRN-3930 Supervised Experience in Athletic Training -Lower Body. (Fee: \$35)

Biblical Languages (BEBL)

5 hours/semester

3 hours/semester

Elementary Greek I and II-Fa; Sp

Basic elements of the Greek language. Careful attention is given to grammar, syntax, vocabulary, and the reading of selected portions of the Greek New Testament.

BEBL-2610, 2620

BEBL-2510, 2520

Elementary Hebrew I and II-Fa; Sp

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

BEBL-3510, 3520

Intermediate Greek I and II-Fa; Fa, Sp

Detailed study of advanced Greek grammar, reading in the Greek New Testament, the application of advanced syntactical rules, and an introduction to exegesis. Prerequisite: BEBL-2510, 2520 Elementary Greek. 1-3 hours

BEBL-4900

Independent Study in Biblical Language-Fa, Sp, Su

3 hours/semester

The student will translate and/or exegete a Scripture passage or investigate advanced grammar and syntax.

Biblical Studies – Christian Education (BECE) BECE-1000 Orientation to Bible Ministries Majors-Fa 1 hour

An introduction to the ministries majors provided within the department of biblical and theological studies (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 3 hours

BECE-2100 Wilderness Ministry

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

BECE-2200 Introduction to Youth Ministry-Sp 2 hours The class will examine the status of contemporary youth ministries, including a survey of various models of ministry. Foundational personal issues for the professional Christian minister will be explored, including a definition of "success" in youth ministries, and the knowledge, skills, heart, and character

necessary for one to lead such ministries successfully. BECE-2400 Interpreting and Teaching the Bible-Fa 6 hours

Principles for interpreting, organizing, and presenting the biblical text, and a survey of learning theory are examined to provide a framework for effective lesson preparation in light of the characteristics and needs of students. Prerequisite: BEGE-1720 Spiritual Formation. 2 hours

BECE-2830 Recreational Leadership-Sp

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

BECE-3510 Small Group Ministry-Fa

3 hours

Study of the theory and practice of the small group process in ministry. Emphasis will be given to the formulation and maintenance of small groups. Emphasis placed on how evangelism and spiritual maturity can be fostered by the small aroup environment.

BECE-3520 Counseling and Mentoring Women-Fa 3 hours

Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as PYCH.

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

Study of women today who are impacting the church and edifying the body of Christ through various ministry opportunities. The course also includes a survey of current and potential fulltime, part-time and volunteer opportunities for women, concluding with the development of each student's own "dream ministry." BECE-3540 Women in Church History-Fa 3 hours

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

BECE-3080 – BEGE-2/30

BECE-3680 Children's Ministries–Fa, Sp **4 hours** Principles from Scripture are examined to prepare a biblical philosophy for ministry to children in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BECE-2400 Interpreting and Teaching the Bible; Major or minor status or permission of the instructor.*

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

Principles from Scripture are examined to prepare a biblical philosophy for ministry to children in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab.

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 ageappropriate 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 3 hours Principles from Scripture are examined to prepare a biblical

philosophy for ministry to junior high and senior high youth in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective ageappropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab. (Fee: \$20) **BECE-3720 Adult Ministries**–Fa **4 hours**

Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions and a two-hour teaching lab. *Prerequisites: BECE-2400 Interpreting and Teaching the Bible; Major or minor status or permission of the instructor.*

BECE-3725 Adult Ministries for non-majors–Fa, Sp **3 hours** Principles from Scripture are examined to prepare a biblical philosophy for ministry to adults in light of developmental characteristics and contemporary sociological factors. Students are equipped to utilize creative, interactive strategies for teaching the Bible and to develop effective age-appropriate ministry programs. Course consists of three weekly class sessions but does not include the teaching lab.

BECE-4100

3 hours

Leadership of Christian Educational Ministries-Sp

An examination of models of leadership for Christian ministries, emphasizing practical issues such as developing mission and vision statements, creating effective leadership teams, and the strategic planning, implementation, and oversight of ministries. For youth ministry and Christian education majors, this must be the final course taken from the sequence of the required BECE courses. *Prerequisites: For CE and Youth Ministries majors: BECE-*2400; *BECE-*3680; *BECE-*3700; *BECE-*3720. No prerequisites for non-majors. (Fee: \$40) **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 Education10-12 hoursTen weeks in a local church gaining experience in the totaleducational program of the church, under the supervision ofChristian education faculty and the pastor and/or director ofChristian education. Capstone course. Prerequisites: 1) Approvalof the faculty of the department of biblical and theological studies.2) Senior academic status. 3) Completion of the following fivecourses: BETH-2350 Theological Foundations of Ministry; BEST-2400 Interpreting and Teaching the Bible; BECE-3680, 3700, or3720 Children's Ministries, Campus Ministries, or Adult Ministries;BEPT-2400 Personal Evangelism or BEPT 3410 Discipleship; andone class in ministry concentration area. Credit/No Credit.BECE-4750 Internship in Youth Ministries10-12 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 and theological studies. 2) Senior academic status. 3)Completion of the following six courses: BETH-2350 Theological Foundations of Ministry; BECE-2200 Introduction to Youth Ministry; BEST-2400 Interpreting and Teaching the Bible; BECE-3680, 3700, or 3720 Children's Ministries, Campus Ministries, or Adult Ministries; BEPT-2400 Personal Evangelism or BEPT-3410 Discipleship; and one class in ministry concentration area. Credit/No Credit. BECE-4900 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–Fa, Sp 1-3 hours Investigation of special topics in Bible and theology, that

have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Biblical Studies – Bible Teacher Education (BEDU)

BEDU-3110 Clinical Teaching in Bible–Fa, Sp **1 hour** Students are assigned to assist a college instructor in classroom teaching, evaluation, and related responsibilities. The student must complete 45 clock hours of clinical involvement.

Biblical Studies – General Education (BEGE) BEGE-1710 Christian Life and Thought–Fa, Sp, Su 3 hours

A foundational course designed to introduce the student to a Christian worldview. Attention is first given to the definition, function, formation, and evaluation of worldview. Then Christian responses and applications will be developed from a survey of biblical theology with emphasis upon the teaching about the Creator, creation, redemption, and consummation. **BEGE-1720 Spiritual Formation**–Fa, Sp, Su **3 hours**

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

BEGE-2730 Old Testament Literature–Fa, Sp, Su **3 hours** Survey of the entire Old Testament, giving special attention to authorship, historical background, and the theme of each book with attention to literary genre. This study traces the history of the Hebrew nation from its origin to the time of Jesus Christ. *Prerequisites: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation.* BEGE-2740 New Testament Literature-Fa, Sp, Su 3 hours

Survey of the entire New Testament, including the historical background of the Inter-Testamental period, giving special attention to main events, the authorship and content of each book with attention to literary genre, and the unfolding of God's redemptive purpose through the Lord Jesus Christ. Prerequisites: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation. 2 hours

BEGE-3750

Christian Worldview Development-Fa, Sp, Su

A continued development of a Christian worldview, with a particular emphasis on the essence and work of the Triune God and the cosmic and communal dimensions of his plan in history. Prerequisite: completion of either BEGE-2730 Old Testament Literature or BEGE-2740 New Testament Literature and at least concurrent enrollment in the second 2000-level BEGE course. BEGE-3760 Christian Worldview Integration-Fa, Sp, Su2 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 Studies – New Testament (BENT)

BENT-3110 Jesus and the Gospels-Fa

3 hours

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

BENT-3120 The Book of Acts-Fa

2 hours

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

BENT-3130 The Prison Epistles-Fa

3 hours

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

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 vears)

BENT-3150 The General Epistles-Sp

3 hours

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

BENT-3160 The Book of Revelation-Fa 2 hours

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

BENT-4110 Romans and Galatians-Sp

3 hours

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

Exposition of First and Second Corinthians with attention given to their historical backgrounds, their teachings, and the integrity of Pauline apostleship. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years) 2 hours

BENT-4130 The Book of Hebrews-Sp

Exposition of this book with stress upon the nature of Christ's priesthood, the typology of the Old Testament sacrificial system, and the superiority of Christianity. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (even years) **BENT-4900** 1-3 hours

Independent Study in New Testament-Fa, Sp, Su

Student will investigate a significant topic or scripture passage of special interest with a view toward integration of knowledge. **BENT-4990 Topics in New Testament** 1-3 hours

Investigation of special topics in Bible and theology, that have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Biblical Studies – Old Testament (BEOT)

BEOT-3110 Pentateuch-Fa

3 hours Detailed study of the five books of Moses. Attention is given to the historical material, theological problems, and practical and homiletic values of these books. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (Fee: \$150) **BEOT-3125**

Selected Studies in the Historical Books-Spd

Selected studies in key issues related to the historical books. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. BEOT-3140 Psalms-Fa 3 hours

Examination of the book of Psalms with special attention given to the various types of psalms and their application to life. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. BEOT-3150 Wisdom Literature-Sp 3 hours

Examination of the books of Job, Proverbs, Ecclesiastes, and Song of Solomon. Special attention is given to their literary qualities and practical applications for today. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature: or permission of the instructor. 3 hours

BEOT-3165 Selected Studies in the Prophetic Books-Sp

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

BEOT-3210 Historical Books I-Fa

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

3 hours

3 hours

Course Descriptions

BEOT-3220 - BEPH-4250

BEOT-3220 Historical Books II-Fa

3 hours

Study of Samuel and Kings with an emphasis on the monarchical history of ancient Israel, literary features of the texts and the theology of the period. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (every third year) 3 hours

BEOT-3230 Historical Books III-Fa

Study of Ezra, Nehemiah, Esther and I/II Chronicles with an emphasis on the post-exilic history of ancient Israel, literary features of the texts and the theology of the period. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor. (every third year) BEOT-3240 Minor Prophets I-Sp 3 hours

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

BEOT-3250 Minor Prophets II-Sp

3 hours

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

BEOT-3260 Minor Prophets III-Sp

3 hours

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

BEOT-3270 Major Prophets I-Fa

3 hours

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

BEOT-3280 Major Prophets II-Fa

3 hours

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

BEOT-4900

Course Descriptions

1-3 hours

1-3 hours

Independent Study in Old Testament-Fa, Sp, Su

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

BEOT-4990 Topics in Old Testament-Fa, Sp

Investigation of special topics in Bible and theology that have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Biblical Studies – Philosophy and Religion (BEPH) BEPH-2200 Introduction to Philosophy-Fa, Sp 3 hours

Survey of the principle issues in Western philosophy, covering such areas as epistemology, metaphysics, aesthetics, and the major systems of philosophy. 3 hours

BEPH-2240 Logic-Fa

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

BEPH-2250 Ethics-Fa

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. 3 hours

BEPH-3240 Epistemology-Fa

Study of the nature, sources, types, tests, and limits of human knowledge. Prerequisite: BEPH-2200 Introduction to Philosophy. BEPH-3250 Philosophy of Religion-Sp

3 hours Analysis of the major philosophical problems relating to religion as these have arisen in the modern intellectual environment. Prerequisite: BEPH-2200 Introduction to Philosophy.

BEPH-3260 Symbolic Logic-Sp 3 hours Study of systems of natural deduction (including metatheoretic proofs and methods) in propositional logic, first-order logic, and modal logic with emphasis on assessing arguments in natural language. Prerequisite: BEPH-2240 Logic; or MATH-2210 Logic and Methods of Proof; or permission of instructor. BEPH-3280 Metaphysics-Sp 3 hours

Study of selected topics in metaphysics, including the 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 Aguinas. Selected, representative writings of the philosophers will be read. Prerequisite: BEPH-2200 Introduction to Philosophy. (odd years)

BEPH-3320 History of Modern Philosophy-Sp 3 hours Study of the principal philosophers from Descartes through Nietzsche. The development of rationalism and empiricism with the Kantian synthesis and its results will be emphasized. Prerequisite: BEPH-2200 Introduction to Philosophy. (odd years) BEPH-3330 19th Century Philosophy-Fa 3 hours

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

BEPH-3340 Current Philosophical Developments-Sp 3 hours Survey of significant European and American philosophies of the 20th century, focusing specifically on developments from the 1960s to the present. (even years)

BEPH-3400 Philosophy of Law and Economics 3 hours Course will clarify the conceptual structures that underlie both law and economic analysis. Explores the connections between ethics and legal theory and practice and economics. (odd years) BEPH-4030 Philosophy and Literature-Sp 2 hours

Course will be divided into two sections. The first will focus on philosophy of literature, exploring literary theory, hermeneutics, and literature as a work of art. The second part of the course will examine philosophy in literature, looking at the ways in which philosophical ideas are expressed through the medium of literature. (even years)

BEPH-4250 Philosophy of Science

2 hours

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

3 hours

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) 1-3 hours BEPH-4290 Topics in Philosophy-Sp

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.

Biblical Studies – Practical Theology (BEPT) 3 hours BEPT-2000 Introduction to Mission-Sp

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. 3 hours

BEPT-2400 Personal Evangelism-Fa, Sp Study of the philosophy, principles, and methodology of personal evangelism. The course includes developing a personal

witnessing methodology, understanding the current issues in evangelism, and learning to answer the difficult questions often asked in witnessing experiences. A one day evangelistic field trip is required. Prerequisite: BEGE-1710 Christian Life and Thought. (Fee: \$15)

BEPT-2420 History of Mission-Fa

3 hours

Survey of the history of the expansion of the church from apostolic times to World War II with attention to differing conceptions of the mission task and the strategies and lessons that may be learned for mission today.

BEPT-2730 Church Business Administration-Sp 3 hours

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.) Crosslisted with FIN-2730.

BEPT-3410 Discipleship-Fa, Sp

3 hours

Study of personal discipleship within a biblical framework, utilizing a variety of resources and practical experience. The model developed will be applicable in multiple contexts. BEPT-3420 Pastoral Ministry-Sp 2 hours

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

BEPT-3430 Pastoral Counseling-Fa

3 hours

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

BEPT-3450 Contemporary World Missions-Sp 3 hours Study of the development, methods, and problems of Christian missions since World War II. (Fee \$50)

BEPT-3470 Cross-Cultural Ministry-Sp

3 hours

Understanding culture, basic methods in researching culture, becoming competent in another culture, cross-culture communication, relevant to a mission ministry, and the practice of ministry contextualization.

BEPT-3480 Women's Communication for Ministry-Sp 3 hours

A course designed to help women refine communication skills that will help them to articulate their beliefs effectively, and further develop communication platforms in the areas of giving a testimony, leading a discussion, and expositing Scripture for various age groups. Prerequisite: BEGE-1720 Spiritual Formation. **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: \$75)

BEPT-4300 Missiology and Missiologists-Fa 3 hours An introduction into the discipline of missiology and a survey of the contributions of key missiologists from the mid-19th century. **BEPT-4400 Pastoral Internship** 5-12 hours

Ten weeks in a local church gaining experience in pastoral responsibilities under the supervision of Bible department faculty and/or the local pastor. Five hours will count toward the preseminary major. Capstone course. Prerequisite: approval of the Bible faculty and completion of the following courses: BEPT-3420 Pastoral Ministry; BEPT-3430 Pastoral Counseling; BEPT-3500 Homiletics; BEPT-4560 Advanced Homiletics. 3-12 hours

BEPT-4500 Missionary Internship

Four to six weeks in a crosscultural context gaining experience in actual missions activity under the supervision of missions department faculty and a qualified missionary. This program is open to students in various majors. Up to three hours may count toward the preseminary major. Capstone course. Prerequisites: completion of at least two missions courses; approval of the Bible faculty. Repeatable up to 12 credit hours. 3 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. Prerequisite: BEPT-3510 Introduction to Urban Ministry. (Fee: \$50) BEPT-4560 Advanced Homiletics-Sp 3 hours

Advanced study of sermon structure development and effective delivery. Designed to give the student practice in outlining, writing, delivering, and evaluating sermons for different types of preaching situations. Prerequisite: BEPT-3500 Homiletics. **BEPT-4900** 1-3 hours

Independent Study in Practical Theology-Fa, Sp, Su

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

BEPT-4990 Topics in Practical Theology-Fa, Sp 1-3 hours Investigation of special topics in Bible and theology, which

have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Biblical Studies - Special Topics (BEST)

BEST-2910 Theological Research–Fa, Sp **2 hours** This course is designed to survey the basic process, as well as selected special processes, germane to the field of theological research. *Prerequisite: BEGE-1720 Spiritual Formation.*

BEST-2920 3 hours Scriptural Interpretations of Gender Issues and Roles-Fa

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

BEST-3400 Bible Backgrounds-Sp

3 hours

An introduction to the world of the Bible including the historical context, geographical setting, cultural milieu, and archaeological evidences that help explain the biblical text. (odd years) BEST-3410 Biblical Archaeology I–Sp 2 hours

An introduction to biblical archaeology and the historical and cultural backgrounds of the Old and New Testaments. (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 \$3,000) (even years)

BEST-4310 Hermeneutics-Fa

3 hours

A study of the theory and related practice of the roles of author, reader, and text toward the end of authoritative interpretation and contextualization of the Bible.

BEST-4900

1-3 hours

Independent Study in Special Topics-Fa, Sp

Students will investigate a significant topic or Scripture passage of special interest with a view toward integration of knowledge. BEST-4910 Seminar in Bible–Fa, Sp 2 hours

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

BEST-4950 Men and Women in Leadership–Fa3 hoursA complementary perspective of men and women providingleadership for the body of Christ within the current cultural milieu.BEST-4990 Topics in Special Topics–Fa, Sp1-3 hours

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors.

Biblical Studies – Theology (BETH)

BETH-2350 Theological Foundations of Ministry–Fa 3 hours

An examination of theological issues critical for the formation of a biblical philosophy of ministry, as well as a critical survey of historical developments in Christian educational ministries in light of those theological discussions. *Prerequisite: BEGE-1710 Christian Life and Thought.*

BETH-2920

3 hours

Scriptural Interpretations of Gender Issues and Roles-Fa

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

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 vears)

BETH-3360 Angelology and Anthropology–Sp3 hoursStudy of angelology, the doctrine of the unfallen angels, thefallen 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-2740New Testament Literature; BEGE-3750 Christian WorldviewDevelopment; or permission of instructor. (odd years)BETH-3400 Current Religious Movements–Sp3 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-3720 Spiritual Formation II-Fa

3 hours

3 hours

This course will develop a biblical theology of spiritual formation, explore alternative models of spiritual formation, and engage students in personal and corporate study and practice of spiritual disciplines as informed by influential thinkers through the history of the church. *Prerequisites: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation; BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; major status or permission of instructor.*

BETH-3730 Theology of Worship–Fa 3 This course explores the theology, history, and practice of Christian worship, with particular attention to how worship

Christian worship, with particular attention to how worship practices both reflect and shape theological commitments. Various elements of Christian worship will be examined in light of diverse cultural contexts and theological perspectives with the goal of enabling the student to plan appropriately and to lead worship in a particular ministry setting. *Prerequisites: BEGE-1710 Christian Life and Thought; BEGE-1720 Spiritual Formation; BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature.* **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 and crimitology in a Shours Study of soteriology, the doctrine of salvation, including election, the atonement, and eternal security; and Christology, the doctrine of Christ with emphasis upon His deity, humanity, and redemptive work. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (even years)

BETH-4380 Pneumatology and Ecclesiology–Fa **3 hours** Study of pneumatology, the doctrine of the person and work of the Holy Spirit; and ecclesiology, the doctrine of the church with stress on the universal church and the local church. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; BEGE-3750 Christian Worldview Development; or permission of instructor.* (even years)

BETH-4390 Eschatology-Sp

3 hours

Study of eschatology, the doctrine of last things with attention given to the rapture of the church, the tribulation, the millennium, the eternal state, and the distinctives of dispensationalism. *Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.* (even vears)

Course Descriptions BETH-4900 - BIO-3610

BETH-4900

Independent Study in Theology-Fa, Sp, Su

Students will investigate a significant topic of theology of special interest with a view toward integration of knowledge. Prerequisite: BEGE-2730 Old Testament Literature: BEGE-2740 New Testament Literature: or permission of the instructor.

BETH-4990 Topics in Theology-Fa, Sp 1-3 hours

Investigation of special topics in Bible and theology, which have intrinsic worth and engage student interest. Permission of instructor required for non-majors. Prerequisite: BEGE-2730 Old Testament Literature; BEGE-2740 New Testament Literature; or permission of the instructor.

Biology (BIO) BIO-1110 Introduction to Biology-Fa

4 hours

1-3 hours

Structure and function of plant and animal cells with emphasis in central concepts. This is the first biology course for majors, open to others with high school biology and chemistry backgrounds. Three lectures and one 2-hour laboratory per week. (Fee: \$100) BIO-1120 General Zoology-Sp 4 hours

This course will provide an integrative study of the diversity of organisms that make up the animal kingdom. Morphology, physiology, and ecology of the major phyla will be integrated with principles of population dynamics to study the continuities and discontinuities among the animal taxa. Two fifty-minute lectures and two 2-hour labs per week. Prerequisite: BIO-1110 Introduction to Biology. (Fee: \$100)

BIO-2210 Microbiology-Fa

4 hours

A study of the characteristics, culture, and control of bacteria, viruses, and fungi. A major emphasis is placed on microorganisms and disease, with some coverage of industrial and environmental topics. Laboratory techniques are emphasized. Two lectures and two two-hour laboratories per week. Prerequisite: CHEM-1000 Principles of Chemistry; CHEM-1010 Principles of Biochemistry or equivalent. (Fee: \$100)

BIO-2250 Cell Biology-Sp

4 hours

Foundational knowledge of cell biology including basic mechanisms of prokaryotic and eukaryotic metabolism, division, and physiology. Three fifty-minute lectures and one three-hour laboratory. Prerequisite: BIO-1110 Introduction to Biology, BIO-1120 General Zoology, and BIO-2500 General Botany (Fee: \$100) BIO-2500 General Botany-Fa 4 hours

A survey of the phyla of the plant kingdom and autotrophic prokaryotes and protists. Laboratory experiences will focus upon field botany, plant communities, and opportunities to investigate plant processes. Special emphasis will be upon the growth and development and the anatomy and physiology of flowering plants. Three lectures and one three-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology, BIO-1120 General Zoology. (Fee: \$100)

BIO-2600 General Ecology-Sp

3 hours

A study of the interrelationships among plants, animals, and microbes and with their environment. Basic theory of biotic communities and ecosystems will provide insights about energy flow, nutrient cycling, and responses to natural and human disturbances of terrestrial, aquatic, and wetland systems. Two lectures and one three-hour laboratory per week. Prerequisites: BIO-1120 General Zoology, BIO-2500 General Botany. (Fee: \$100) BIO-3300 Genetics-Fa 4 hours

This is an integrative course of the areas of classical and molecular genetics. Focus on the principles of heredity in prokaryotic and eukaryotic organisms, which includes the understanding of transmission genetics on a molecular level. The molecular nature of genes, including gene expression, mutations, and manipulation of DNA will be emphasized. Three lectures and one three-hour laboratory per week. Prerequisite: BIO-1110 Introduction to Biology; BIO-2250 Cell Biology. (Fee: \$100)

BIO-3410 Invertebrate Zoology-Fa

3 hours

This course will provide an overview of the diversity of invertebrates. It will take an integrative approach to learning about invertebrate taxonomy, ecology, morphology, and physiology. Field collections of local fauna will be used to learn the principles of invertebrate classification and to study local biological diversity. Prerequisite: BIO-1120 General Zoology. (Fee: \$100) (even years) BIO-3420 Vertebrate Zoology-Sp 3 hours

This course is a study of the diversity among the vertebrate classes with an emphasis on continuity and discontinuity of morphological form and physiological function of vertebrate systems. Prerequisite: BIO-1120 General Zoology. (Fee: \$100) BIO-3450 Human Structure and Function I-Fa 4 hours

Study of the structure and function of the human body with an emphasis on body systems. Includes human tissues, skeletal, muscular, nervous, and endocrine systems. Two lectures and one three-hour laboratory per week. Prerequisite: BIO-1120 General Zoology. (Fee: \$100)

BIO-3460 Human Structure and Function II-Sp 3 hours

Study of the structure and function of the human body with an emphasis on body systems. Includes cardiovascular, respiratory, gastrointestinal, and renal systems. Three lectures per week. Prerequisite: BIO-3450 Human Structure and Function I. BIO-3510 Plant Physiology-Sp 3 hours

A study of the physiological aspects of vascular plants with emphasis upon plant-soil water relationships, mineral nutrition, photosynthesis, and plant growth and development. Two lectures and one 3-hour laboratory per week. Prerequisite: BIO-2500 General Botany, BIO-2600 General Ecology. (Fee: \$100) (odd years) 3 hours

BIO-3520 Plant Taxonomy-Sp

A study of the naming and classification of common vascular plants with emphasis upon field identification in the context of plant community and taxonomic family, plant collecting and herbarium techniques, and the importance of plants in global stewardship and missions. Two lectures and one three-hour laboratory per week. Includes a travel study opportunity during spring break. Prerequisite: BIO-2500 General Botany, BIO-2600 General Ecology. (Fee: \$100) (even years)

BIOA-3600 Topics in Environmental Biology-Sp, Su 4 hours

Enrollment in this course signifies that the student has chosen to enroll in two or more Au Sable Institute courses in an upcoming term taught by faculty of various evangelical Christian colleges and universities. Course descriptions of the more than 20 Cedarville-approved Au Sable courses are available in the Au Sable Institute Bulletin available from the department Au Sable representative or at the Au Sable website. Enrollment begins when the student contacts the University Au Sable representative. Appropriate course titles will appear on the student's transcript with letter grades when the studies are completed. More information on Au Sable Institute is available under Travel Studies Opportunities or at www.ausable.org. Prerequisite: acceptance to attend Au Sable Institute.

BIO-3610 Environmental Physiology and Ecology-Sp 4 hours A study of both physiological ecology and field ecology. The course begins with field and laboratory studies of adaptations to winter at the organismic and cellular levels and includes a travel study experience in the "North Woods." Spring emphasis shifts to field ecology with emphasis on aquatic, forest, and prairie ecosystems. Three lectures and one 3-hour laboratory per week. Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology. (Fee: \$100)

BIO-3710 - BUS-2180

BIO-3710 Biochemistry-Sp

4 hours

A study of the chemical and physical properties of macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Four lectures per week. Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.

BIO-3800 Biological Research-Fa, Sp 2 hours

Student will undertake an original research project under the direction of a departmental faculty mentor or approved mentor within a summer research program or within an approved academic internship experience geared toward completion of the capstone experience. Prerequisites: junior status; permission of instructor. (Fee: \$150)

BIO-3810 Biological Research Internship-Fa 1-2 hours

Student will participate in an 8-10 week summer undergraduate research program of his or her choosing at an accredited university or medical facility. Prior to participation in the research program, the student must have the program approved by the biology faculty member in charge of the course. In addition, the student will receive a progress report form which will be filled out by the student and signed by the student's research advisor. To receive credit for the course, the student must turn in the progress report along with a copy of his or her laboratory notebook or research log, submit a 5-10 page research summary, and meet with the faculty member in charge of the course. Prerequisite: completion of the first two years of the biology core.

BIO-4210 Advanced Cell Biology-Fa

4 hours

In-depth study of the cell includes the following topics: normal cell physiology and division, differentiation, basic signaling pathways and programmed cell death. Study of cell pathogenesis, aberrant signaling mechanisms, and other elective topics of current agricultural or biomedical interest may be included. Three lectures and one three-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-2250 Cell Biology; BIO-3300 Genetics. (Fee \$100)

BIO-4220 Signal Transduction-Fa

3 hours

Study of major cellular signaling pathways in normal function and in disease. Original research will emphasize signaling pathways, and data collected will further advance the field. Two lectures and one three-hour laboratory per week. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics. (Fee: \$100) (odd years)

BIO-4300 Molecular Biology of the Cell-Fa

4 hours

Study of the molecules that make up the living cell, with emphasis on nucleic acid biology and protein biology. Other topics include origin of life, abiogenesis, and a historical analysis of the discovery of DNA and proteins. Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry. (Fee: \$100)

BIO-4350 Immunology-Fa

4 hours

Study of the human immune system, including descriptions of basic immunological phenomena, biochemistry of antibodies and antigens, the cellular and genetic components of the immune response, and immunopathology. Two lectures and one lab per week. Prerequisite: BIO-1110 Introduction to Biology. (Fee: \$100) (even years)

BIO-4410 Developmental Biology-Sp

4 hours

Systematic study of the mechanism of reproduction, gametogenesis, and organogenesis, with an emphasis on human development. Morphological laboratory study of selected vertebrates will reinforce the lecture material. Three lectures and one lab per week. Prerequisites: BIO-3420 Vertebrate Zoology and BIO-3450 Human Structure and Function I. (Fee: \$100)

BIO-4710 Principles of Bioethics-Fa

3 hours

Christian principles of bioethics, with an emphasis on personhood and the sanctity of human life. Three lectures per week. Prerequisites: completion of core biology curriculum; junior status. 3 hours

BIO-4770 Pathophysiology-Fa

Study of the abnormal functions of the human body during disease. Includes case study discussions and research writing. Three lectures per week. Prerequisite: BIO-3460 Human Structure and Function II.

BIO-4800 Senior Seminar-Biology-Fa, Sp 1 hour In this capstone course required of all senior biology majors,

students compile data from laboratory, field study, or extensive literature research and give an oral presentation. Approval of the topic must be given by the student's academic advisor. The student must also attend a minimum of 10 seminars during the senior year. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics; senior status; attendance of a minimum of 10 seminars prior to the senior year. 1-3 hours

BIO-4880 Topics in Biology

Topics of special interest by the biology faculty from the areas of modern biology. Prerequisites: BIO-1110 Introduction to Biology; BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; BIO-3300 Genetics.

BIO-4900 Independent Study: Biology-Fa, Sp 1-3 hours Supervised independent study of a particular biological phenomenon. Submission and approval of a research proposal must precede registration. Prerequisites: major in biology; permission of advisor.

BIO-4910 Environmental Biology Internship-Fa, Sp 4 hours An opportunity to participate in an internship experience involving research projects with field biologists, ecologists, environmental health scientists, or environmental educators, depending upon the student's vocational preference. Involves department faculty or faculty in conjunction with local or state agencies or private institutions. Provides practical experience in field biology and ecology techniques related to habitat characterization, monitoring, management, and restoration. Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany, BIO-2600 General Ecology; permission of instructor. (Fee: \$25)

Business Administration (BUS)

1-3 hours

BUS 1410-Topics in Business-Su A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

BUS-2100 Business Communication-Fa

Instruction for writing business letters, memos, and business reports. Oral business presentations, small group communication, and the communication process in general are also discussed.

Prerequisite: ENG-1400 Composition. BUS-2110 Statistics I-Fa, Sp

2 hours An introduction to statistical methods used in business decision making, including descriptive statistics, probability, probability distributions, estimation, and hypothesis testing. Prerequisite: GMTH-1040 Calculus for Business

BUS-2120 Statistics II-Fa, Sp

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 3 hours

BUS-2180 Business Law I-Fa, Sp

A study of the legal business law environment, contracts, sales, bailments, and property.

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3 hours

2 hours

Course Descriptions

BUS-3150 - CDMU-4990

BUS-3150 Operations Analysis-Fa, Sp

Introduces mathematical methods of decision analysis. Topics include probability, forecasting, decision under uncertainty, decision trees, inventory models, linear programming, and networks. Prerequisites: BUS-2120 Statistics II; junior status. BUS-3180 Business Law II-Sp 3 hours

A study of employee law, negotiable instruments, agency, partnership corporations, insurance, and will. Prerequisite: BUS-2180 Business Law I.

BUS-3280

3 hours

2 hours

Entrepreneurship and Service Practicum-Fa

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-Fa, Sp, Su

Research in problems of accounting, management information systems, general business, economics, finance, management, or marketing.

BUS-3410 Topics in Business-Fa, Sp, Su

A variety of courses are covered under this heading on an experimental basis. This allows the department to meet the changing needs of the students without formally adding or dropping courses.

BUS-3450 Business Internship

3-12 hours

0 hours

1-3 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. 3 hours

BUS-3910 International Business-Fa, Sp

To give a global perspective of the business environment, international business terms are defined and the interactions of the various actors, firms, institutions, countries, and groups of countries are developed. An environmental approach including both cultural and financial perspectives develops a broad view of the world economy.

BUS-3990 Professional Development-Fa, Sp

A program of activities that prepares students to investigate career alternatives and initiate a job search strategy. Junior business majors are required to maintain enrollment in this program for both semesters of their junior year. (Fee: \$30) **BUS-4420** 2 hours

Business Ethics and Social Responsibility-Fa, Sp

Ethics asks questions about what goals one should pursue and what actions are appropriate in attempts to achieve these goals. The class examines alternative frameworks for analyzing difficult situations. Social responsibility refers to business decision making linked to ethical values, compliance with legal requirements, and respect for people, communities, and the environment. Ultimately, the class will deal with how our biblical worldview defines and drives the choices we face in the business world. Open only to seniors in business administration.

BUS-4990 Executive Development-Fa, Sp

0 hours

A program of professional development activities that prepares students to move into a corporate environment. Senior business majors are required to maintain enrollment in this program during both semesters of their senior year. (Fee: \$20)

Coaching (CCHG)

CCHG-3670 Fundamentals of Coaching-Fa 3 hours

Overview of the philosophy, psychology, organization, and general responsibilities of an athletic coach. Knowledge of motor learning and development and an overview of the organizational fundamentals of coaching for all the major sports. (even years)

CCHG-3680 Scientific Basis of Coaching-Fa 2 hours Practical study of physiological and kinesiological principles of training and their application to various sports. (odd years)

CCHG-3700 through CCHG-3760 Coaching 2 hours each Organization, skills, techniques, and strategies of the following

sports:	
CCHG-3700 Coaching Volleyball–Fa (even years)	2 hours
CCHG-3720 Coaching Basketball-Fa (odd years)	2 hours
CCHG-3730	2 hours
Coaching Track and Field and Cross Country-Sp	(odd years)
CCHG-3740	2 hours
Coaching Softball and Baseball–Fa (even years)	
CCHG-3760 Coaching Soccer-Sp (odd years)	2 hours
CCHG-4850	1-3 hours
Independent Study in Coaching–Fa, Sp	

Independent study in the area of coaching by students pursuing the coaching minor. Departmental approval is required.

CCHG-4950 Internship in Coaching-Fa, Sp 3 hours

Field experience at the University or a nearby high school involving actual coaching experience for a minimum of 100 hours. Departmental approval is required. Credit/no credit.

Conducting (CDMU)

CDMU-2600 Introduction to Conducting-Fa

The basic technique of the conductor's art: score reading, conducting patterns, interpreting, cueing, rehearsal procedures, and stylistic conceptualization. Prerequisite: THMU-1210 Music Theory I or permission of instructor. (Fee: \$20) 2 hours

CDMU-3610 Choral Conducting-Sp

Concentrated focus upon the choral conductor's stylistic gestures and verbal communication as they impact ensemble intonation, diction, tone, blend, and balance. This course emphasizes diagnostic listening, problem solving, observation of professional conductors, the conducting of larger choral/ instrumental works, and student rehearsal of various music department choral ensembles. Prerequisite: CDMU-2600 Intro to Conducting or permission of instructor (Fee: \$20).

CDMU-3620 Instrumental Conducting-Sp

2 hours

2 hours

Designed to take the student beyond basic conducting techniques and present the special characteristics of instrumental conducting. The student will develop skills in rehearsal technique and score analysis while learning to conceptualize musical fundamentals such as tone, intonation, balance, rhythmic ensemble, and interpretation. Prerequisite: CDMU-2600 Introduction to Conducting or permission of instructor. CDMU-3630 Choral Methods-Fa 2 hours

Further development of conducting skills with special emphasis placed upon the organization of a comprehensive school choral curriculum. Rehearsal strategies and vocal techniques are discussed and practiced as they apply to choirs of all levels and voicings. Prerequisite: CDMU-2600 Introduction to Conducting or permission of the instructor. (Fee: \$20)

CDMU-4990 Independent Study in Conducting 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.

CHEM-1000 - CHEM-3710

Chemistry General Education (CHEM)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

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)

3.5 hours CHEM-1050 Chemistry for Engineers–Fa

Fundamental concepts of chemistry are developed with applications of chemistry to engineering disciplines. Students learn measurement, number handling, the Periodic Table, descriptive properties of atoms, elements, molecules, and ions, chemical reactions, stoichiometry, chemical bonding, equilibrium, thermodynamics, gas laws, and the nature of solids and liquids. Three lectures per week, and one bi-weekly two-hour laboratory. (Fee: \$75)

Chemistry (CHEM)

CHEM-1110 General Chemistry I-Fa

Fundamental concepts of physical, inorganic, and analytical chemistry are developed. Students are introduced to the physical chemistry concepts of atomic theory, chemical bonding, molecular structure, intermolecular forces, states of matter, and thermodynamics. Inorganic concepts of reaction types and stoichiometry are included. Lab stresses analytical techniques including quantitation, separation, titration, and statistical analysis of data. Many of the lab reports require use of spreadsheets or other computer software. Three lectures and one three-hour lab per week. Prerequisite: satisfactory performance on the chemistry placement exam. (Fee: \$100)

CHEM-1120 General Chemistry II-Sp

4 hours

4 hours

A continuation of General Chemistry I, including the physical chemistry concepts of kinetics and equilibrium. Inorganic topics include acids and bases, oxidation-reduction reactions, nuclear chemistry, and the descriptive chemistry of the main group and transition metal elements. Lab exercises stress guantitative analytical techniques and application of visible light spectroscopy. Lab reports require use of spreadsheets or other computer software and statistical analysis of data. Three lectures and one three-hour lab per week. Prerequisite: CHEM-1110 General Chemistry I. (Fee: \$100) 3 hours

CHEM-2210 Analytical Chemistry I-Fa

A study of the fundamental concepts and skills of analytical chemistry including measurement, statistical treatment of data, equilibrium constant calculations, acid-base equilibria, electrochemistry, and volumetric analysis. The laboratory sessions focus on volumetric methods such as precipitation titrations, acid-base titrations, complexation titrations, and redox titrations in which accurate measurement of volume is essential. Two lectures and one three-hour laboratory per week. Prerequisite: CHEM-1120 General Chemistry II. (Fee: \$100)

CHEM-2220 Analytical Chemistry II-Sp

3 hours

Detailed study of analytical instrumentation, including electro-analytical methods such as potentiometry, coulometry, voltammetry, spectrochemical analysis, and analytical separations, including various types of chromatography. Two lectures and one three-hour laboratory per week. Prerequisite: CHEM-2210 Analytical Chemistry I. (Fee: \$100)

CHEM-2800 Introduction to Research in Chemistry-Fa 1 hour

An introduction to the purpose and methodology of research in chemistry, including keeping a laboratory notebook, retrieving information, using the chemical literature, and writing research reports. One lecture per week. Prerequisite: CHEM-1120 General Chemistry II. (Fee: \$100)

CHEM-3210 Environmental Chemistry-Sp 4 hours

A detailed study of energy resources, atmospheric chemistry, and surface water chemistry, with an emphasis on the application of principles from previous classes to current environmental issues. Three lectures and one three-hour lab per week. Prerequisite: CHEM-2220 Analytical Chemistry II and CHEM-3510 Organic Chemistry II, or permission of the instructor. (Fee: \$100) (odd years)

CHEM-3410 Inorganic Chemistry-Fa

3 hours

5 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

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 gualitative organic analyses using modern instrumental methods (H-NMR, C-NMR, FTIR, GC/MS). Three lectures and two three-hour labs per week. Prerequisite: CHEM-3510 Organic Chemistry I. (Fee: \$100)

CHEM-3525 Organic Chemistry II for Biologists-Sp 4 hours Continuation of Organic Chemistry I, including the detailed study of conjugated aliphatics, aromatics, aldehydes, ketones, carboxylic acids, anhydrides, esters, acyl halides, amines, phenols, and aryl halides. Lab includes systematic gualitative organic analyses using modern instrumental methods (H-NMR, C-NMR, FTIR, GC/MS). This course satisfies the organic chemistry II requirement for the B.S. in biology and may be used as an elective for the B.A. in biology. Three lectures and one threehour lab 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 macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, and the metabolic pathways, enzyme kinetics, and thermodynamics associated with these molecules. Four lectures per week. Prerequisites: BIO-1110 Introduction to Biology; CHEM-3510 Organic Chemistry I.

CHEM-4210 Advanced Chemistry Lab-Sp

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) 4 hours CHEM-4310 Physical Chemistry I-Fa

A study of the laws of thermodynamics, chemical equilibrium, solutions, and kinetics. Three lectures and one three-hour lab per week. Prerequisites: CHEM-2210 Analytical Chemistry I; PHYS-2120 General Physics II. (Fee: \$100)

CHEM-4320 Physical Chemistry II-Sp 4 hours A study of the states of matter, surface phenomena, quantum mechanics, bonding, and spectroscopy. Three lectures and one three-hour lab per week. Prerequisite: CHEM-4310 Physical Chemistry I. (Fee: \$100)

CHEM-4410 Advanced Inorganic Chemistry-Sp 3 hours

Study of d-metal complexes, the systematic chemistry of the elements, and advanced topics in inorganic chemistry. Topics may include main group organometallics, d- and f-block elements, catalysis, and bioinorganic chemistry. Three lectures per week. Prerequisite: CHEM-3410 Inorganic Chemistry.

CHEM-4800 Senior Seminar-Chemistry-Sp 1 hour

Capstone course for majors in chemistry. Students present a paper from library or laboratory research. Before enrollment, each student must obtain approval of the topic from his or her advisor and the seminar instructor and set the date of presentation. The students must also attend a minimum of 10 seminars during the senior year. Guest lecturers or faculty members may present papers at the invitation of the instructor. Prerequisites: senior status; attendance of a minimum of 10 seminars during the sophomore and junior years.

CHEM-4830 Research in Chemistry-Sp

3 hours

2 hours

Investigation of a chemical research project and its culmination in a scholarly research report. Submission and approval of a research proposal must precede registration. May be repeated once for credit. Prerequisites: CHEM-2800 Introduction to Research in Chemistry; CHEM-4310 Physical Chemistry I. (Fee: \$150)

CHEM-4880 Topics in Chemistry

1-3 hours

Topics of special interest are selected by the chemistry faculty from the areas of modern chemistry. Prerequisites: CHEM-2210 Analytical Chemistry I; junior status; permission of instructor. **CHEM-4900 Independent Study in Chemistry** 1-3 hours

Supervised independent study of some chemical phenomena. Submission and approval of a research proposal must precede registration. Prerequisites: CHEM-2210 Analytical Chemistry I; CHEM-3510 Organic Chemistry I; CHEM-4310 Physical Chemistrv I.

CHEM-4910 Chemistry Internship-Fa, Sp, Su 1-3 hours Students will gain experience in the chemistry profession in a departmentally approved work environment. A technical report detailing the skills and techniques utilized and a supervisor's evaluation will be the basis for successful completion. Prerequisite: CHEM-2220 Analytical Chemistry II or CHEM-3520 Organic Chemistry II.

Church Music (CHMU)

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

1 hour

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. Crosslisted with WSHP-2100 Worship Forum. Prerequisite: enrollment as a church music major or minor

CHMU-2200 Field Experience-Fa, Sp

Initial field experience in a local church. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by the church's pastor or minister of music. Prerequisite: enrollment as a church music major or minor.

CHMU-2600 Music of the Church-Fa

3 hours

An in-depth review of the past, present, and future of music in the church and its use in worship. The course provides tools that students can use to evaluate the quality and usefulness of various musical styles within the context of different worship traditions. (odd years)

CHMU-3630 Administering Church Music I-Sp 3 hours Training in the organization, administration, planning, and presentation of vocal music in worship. Included in the course is a study of the administrative, organizational, and pedagogical methods for teaching and training children, youth, and adults, along with an extensive examination of music literature and curricula appropriate to different age groups. (even years) 3 hours CHMU-3640 Administering Church Music II-Sp

Training in the organization, administration, planning, and presentation of instrumental music in worship. Included in the course is a study of the development of small wind and brass ensembles, large ensembles, repertoire and the function of ensembles in worship and Christian education. (odd years) CHMU-4900 Church Music Internship 9 hours

Intensive field experience in a local church. Place of service is determined by student interest, recommendation of supervising faculty, availability of local church, and supervising minister of music. Students must apply for internships and receive endorsement from the advisor and the chair of the department of music, art, and worship 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.

Chinese (CHN)

CHN-1100 Elementary Chinese I-Fa, Sp 4 hours This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese.

CHN-1200 Elementary Chinese II-Fa. Sp.

4 hours This course will teach students elementary levels of Chinese language proficiency in Mandarin or Putonghua. Students will develop skills in listening, speaking, reading, and writing in Chinese. Prerequisite: CHN-1100 Elementary Chinese I.

Music Class Studies (CLMU)

CLMU-1170 Diction for Singers I-Fa

2 hours Students will master the rules of pronouncing Italian and Latin language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing Italian and Latin language song texts.

CLMU-1180 Diction for Singers II-Sp

2 hours

Students will master the rules of pronouncing German and French language song texts using the International Phonetic Alphabet. Classroom activities will include listening to, reading, and singing German and French language song texts. CLMU-1810 Piano Class I-Fa

2 hours Group instruction in piano fundamentals. Required for music majors who are unable to pass the piano proficiency. Open to other individuals with permission of the instructor. (Fee: \$30) CLMU-1820 Piano Class II-Sp 2 hours

Continued group instruction in piano fundamentals and repertoire. Prerequisite: CLMU-1810 Piano Class I. (Fee: \$30) CLMU-1860 Voice Class-Fa 1 hour

Group instruction in basic vocal technique and repertoire. Enrollment open to any student not majoring in voice. Repeatable. (odd years)

CLMU-2110 Song Literature-Sp

2 hours

Survey of literature for the solo voice from the onset of Thoroughbass to the 20th century. Analysis of scores will be done through recordings and live performances. (even years) 2 hours

CLMU-2120 Oratorio Literature-Sp

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 21st century operas. Representative works will be discussed from the Baroque, Seria, Buffa, Bel Canto, Romantic, Verismo, English, and Contemporary American styles. (oddyears) CLMU-2200 Music Literature: Special Topics 1-2 hours

A survey of the history and literature for the specified instrument. 1 hour

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 20th century. Total percussion will be considered. (even years) CLMU-2230 String Literature-Sp 1 hour A survey of string literature covering all historical periods but

emphasizing the chamber music genre. (even years) CLMU-2240 Woodwind Literature-Fa 1 hour

The study of the history and literature of the woodwind instruments (flute, oboe, clarinet, bassoon). (odd years)

CLMU-2300 Keyboard Literature-Sp 2 hours

A survey of music for the piano and its precursors, covering the period from 1600 to the present, with a focus on the works which have come to form the core of the repertoire. (odd years) CLMU-2310 Collaborative Piano-Fa, Sp 1 hour

Supervised piano accompanying experience. The student is assigned to work with one vocalist or instrumentalist for the semester and will prepare music for studio lessons as well as public performances.

CLMU-2750 Performance Seminar-Fa, Sp 0 hours

A once-per-semester seminar, that may take the form of a lecture, masterclass, or recital.

CLMU-2760 Performance Portfolio-Fa, Sp 0 hours The student will assemble and present materials, that

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

Designed as an opportunity for students to receive guidance and feedback on preparing, assembling, and presenting a composition portfolio. The portfolio may include documentation of performances, masterclasses, and completed compositions. CLMU-3110 Choral Repertoire-Fa 2 hours

This course exposes the student to exemplary repertoire for choirs of all levels and voicings. Most class sessions are devoted to sight-reading and discussing a large number of choral pieces as well as evaluative listening to recordings. Open to all music majors, minors, and to all CU ensemble members. For music majors, it is recommended that this course be taken concurrently with CDMU-3630 Choral Methods.

College Studies (COLL) **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: \$550)

COLL-1010 MAP

Desiring to support students who struggle academically, the academic assistance center and the academic deans require students on academic probation to be enrolled in the academic probation program called MAP - a unique avenue in which to cultivate scholarship and discipline from a holistic approach. The program is designed to help students in the context of relationship and accountability, to enable students to learn within the dynamics of their lives, to bring concrete strategies to the learning process and to develop skills that will translate into other realms of living. (Fee: \$600)

Communication Studies (COM)

COM-1000

3 hours

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 3 hours Exposes the student to and prepares them for competition in the three general areas of intercollegiate forensic competition: oral interpretation (prose, poetry, dramatic-duo), public speaking (persuasion, informative, communication analysis), and limited preparation events (impromptu and extemporaneous speaking). Prerequisites: Audition; permission of instructor.

COM-1230 Voice and Diction-Fa See course description for THTR-1230 Voice and Diction.

3 hours

0 hours

0 hours

COM-2000 Persuasive Theory-Fa

Methods of applying contemporary communication theories on attitudes, involvement, and change combined with classical positions on the principles and methods of persuasive communications. Attention is given to the study, analysis, and delivery of persuasive speeches in a free society along with background in the rhetorical criticism of logical, emotional, and ethical proofs.

COM-2050 Communication Theory-Fa, Sp 3 hours Introduction and critical assessment of communication theories that underlie interpersonal, group, organization, public, mass media, and cultural studies. 3 hours

COM-2140 Intercultural Communication-Fa, Sp

Provides the foundations of the way communication functions in intercultural settings with a focus on the way culture affects communication. Students learn to identify cultural differences, understand adaptation processes and learn communication effectiveness in cross-cultural contexts.

COM-2200

2 hours

Communication in Applied Contexts-Fa, Sp

Provides students with an opportunity to develop their speaking skills beyond Fundamentals of Speech, emphasizing the use of technology, professional use of public address, and preparation for upper-level applied and speaking courses. Prerequisite: COM-1100 Fundamentals of Speech or COM-1120 Honors Speech.

COM-2220 Research in Communication-Fa, Sp 3 hours

A survey of research methodologies commonly employed by communication researchers. Laboratory hour introduces library search techniques and participation in on-going research projects. Prerequisite: COM-2050 Communication Theory.

COM-2230 Group Discussion-Sp 2 hours Group interaction and principles of directing effective groups are studied to develop individual understanding of group processes. Emphasis on the different aims of discussion situations.

COM-2300 Voices of Diversity-Fa, Sp

3 hours

Examination and critical analysis of the significant contributions and issues related to women, people of color, cultural minority groups, and the differently abled in the development of American cultural history. Cultural, social, and artistic contributions are examined and discussed. Field trips and guest performers/ speakers will be incorporated.

COM-2320 Theories of Mass Media-Fa, Sp

3 hours

Contemporary mass media is surveyed with attention to the nature, role, structure, influence, operation, and problems of newspapers, magazines, radio, and television-journalistic activities. The course also examines issues involving new communication technologies such as the web, personal digital assistants, and digital broadcasting.

COM-2410 Fundamentals of Oral Interpretation-Fa 3 hours

The study of literature through the medium of oral performance involves development in analysis and performance skills. Interpretation theories and techniques that deal with poetry, prose, and dramatic literature are presented.

COM-2440 Advanced Forensics-Fa, Sp 1 hour Advanced training for intercollegiate forensic competition. Focus

on literary and rhetorical criticism, extemporaneous speaking, and the writing of original oratory. Repeatable up to six hours. COM-2510 Media History-Sp 3 hours

This course offers the historical foundations of mass communication from colonial America to the present. Focuses on the growth of news and entertainment media within a social, political, and economic framework of each era of development. Particular attention is given to the interaction of minority and mainstream media.

COM-2820 Political Communication-Fa

3 hours

A survey of the theory and practice surrounding the relationship between media and politics. Issues such as the role of media in promoting democracy; media effect theories, political knowledge, and the public's response to news; and the role of public opinion in an open society will be explored. 3 hours

COM-3100 Advanced Public Speaking-Sp

Emphasizes the creative, logical, and audience-centered thinking needed for excellent public address. Students exhibit logical communication skills through writing and speaking assignments. Prerequisite: COM-2200 Communication in Applied Contexts.

COM-3120 Argumentation and Debate-Fa 3 hours The study of principles and practices of debate. Course includes an overview of typical questions used in intercollegiate debate as well as the theory involved in logical preparation and

refutation of a case.

COM-3150 Gender, Politics, and Communication–Fa 3 hours

Using communication theory and biblical application, this course studies the patterns and the effects of communication upon male and female genders identifying the political struggles that are a part of gender relationships and communication. The women's movement, contemporary masculinity studies, and the Christian church's response to gender issues are surveyed.

COM-3220 Visual Communication-Fa 3 hours Centers on the analysis of how we, as individuals and societies, shape, communicate, receive, and interpret visual images. Particular emphasis is given to visual and aesthetic theory as it applies to film, television, advertising, and theatre.

COM-3230 Organizational Communication-Sp 3 hours The study using communication for organizational structure. The course focuses on major organizational theories, topics, and their communicative implications. The role of communication during conflict management, negotiation, crisis management, and small group process in the organizational context. (Fee: \$10) 2 hours

COM-3240 Interpersonal Communication-Sp

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. 3 hours

COM-3250 Interviewing-Fa, Sp

Focuses on the study of fundamental interviewing principles. Instruction and training are offered across a variety of interviewing situations, including informational, employment, and persuasive interviews. 3 hours

COM-3260 Organizational Negotiation-Fa

Focus on communication and the negotiation process in the organizational context, coverage of negotiation theories, elements of the negotiation process, and negotiation formats (e.g., salary negotiations, budget negotiations, collective bargaining, etc.). COM-3330 Organizational Training–Fa 3 hours

Focuses on trainer skills essential for training the adult employee in an organizational setting. Techniques and learning resources are presented to aid the trainer in assessing training needs. Prerequisite: COM-3230 Organizational Communication or permission of instructor. 1 hour

COM-3450 Forensics/Individual Events-Fa, Sp

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. 1 hour

COM-3451 Debate Practicum-Fa, Sp

Students receive individual coaching for participation in intercollegiate debate competition. Prerequisite: permission of instructor. Credit/no credit; repeatable up to six times.

3 hours

COM-3500 Storytelling-Sp

3 hours

The history, development, and usage of storytelling is presented in a format where the student participates in developing skills as a teller. Students are assisted in developing their own style and method for presenting stories. Open to all majors. COM-3650 2 hours

Clinical Methods in Teaching Speech-Fa, Sp

Students seeking certification for teaching speech will gain classroom experience. One credit hour equals 20 classroom hours. Department staff members will supervise all assignments. Credit/no credit.

COM-3710 Communication and Cultural Literacy-Sp 3 hours

Course content organized around a survey of American history with emphasis on the impact of religious beliefs and social forces on the formation of American social practice. Students are encouraged to critically consider and consciously embrace cultural anchors that guide ethical and effective cross-cultural communication.

COM-3790 Cultural Immersion Clinic-Fa, Sp, Su 3 hours

Encourages personal development toward intercultural sensitivity and adaptation. Requires regular contact with faculty monitoring immersion experience. Prerequisite: COM-2140 Intercultural Communication, SOC-1300 Introduction to Sociology, or PYCH-1800 Cross-Cultural Psychology. (Fee \$100)

COM-3810 Political Speechwriting-Fa 3 hours

This course focuses on the skills necessary to research for and effectively write a variety of political messages. Students will practice using the skills necessary for effective political communication in political speechwriting exercises. Theory that enriches the understanding of political messages will be presented and applied. Prerequisite: COM-3100 Advanced Public Speaking. COM-3840 Media Analysis-Sp 3 hours

Overviews the study and application of theories that analyze and critique news, and film media. Theories of media criticism will be presented, along with a Christian view. Students will produce critiques of media using the theories presented and integrating a Christian worldview into their analysis.

COM-4060 Organizational Leadership-Fa, Sp 3 hours

Leadership as a societal role is addressed through analysis of theory and observation of practitioners. A chronology of methodological approaches to the study of leadership is presented. Students observe and evaluate leaders in a variety of disciplines.

COM-4110 History of Public Address-Fa

3 hours

Classical rhetorical systems and theories are studied from the perspective of the rhetorical critic. The development of rhetoric is traced from the Greek period to the present. Analysis is made of the part rhetoric has played in the development of philosophies and nations.

COM-4120 Contemporary Rhetoric-Sp

3 hours

A survey of rhetorical theory that has developed since WWII. Selected representative, contemporary rhetorical theories will be studied and applied to US political communication. Seeks to integrate the study of political messages and the current political culture. Prerequisite: COM-4110 History of Public Address or permission of instructor. 3 hours

COM-4210 Public Opinion and Polling-Sp

Provides an introduction to the process of public opinion and the methods of studying that process, specifically polling. Students will participate in a number of research-related activities associated with the study of public opinion. Theory that is useful for understanding the public opinion process will be presented and applied to examples of public opinion research. Prerequisite: COM-2220 Research in Communication. 2 hours

COM-4600 Speech Seminar-Sp

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	s-needed
basis.	
COM-4710-4760 Independent Study	1-3 hours
COM-4710-General Communication-Fa. Sp	1-3 hours

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COM-4720–Organizational Communication–Fa, S	Sp 1-3 hours
COM-4730–Oral Interpretation–Fa, Sp	1-3 hours
COM-4740–Drama–Fa, Sp	1-3 hours
COM-4750–Media–Fa, Sp	1-3 hours
COM-4760–Forensics–Fa, Sp	1-3 hours
Taken to secure an in-depth background in one of th	e areas of

communication. Repeatable to a total of eight credit hours in the field. Prerequisite: permission of instructor. 2 hours

COM-4810 Research Pre-Seminar-Sp

Senior students present research findings to beginning researchers. Senior students mentor beginning students. Beginning researchers employ library search techniques to prepare a research prospectus. Prerequisite: COM-2220 Research in Communication. (Fee: \$25)

COM-4820 Senior Research Project-Fa 3 hours Students select a topic of interest, research, and write a paper under the direction of a research mentor. Students present findings before faculty and peers. Research is published by the department and retained in the department of communication arts archives. Prerequisites: COM-2050 Communication Theory; COM-2220 Communication Research; COM-4810 Research Pre-Seminar. (Fee: \$45) COM-4825 3 hours

Senior Research Capstone Internship-Fa, Sp, Su

Students with an emphasis in political communication may elect to complete a capstone internship for their senior project. Internship experiences must be approved by faculty within the political communication specialization and must demonstrate strong academic preparation and a capacity for professional development during the internship experience. For more information on the capstone internship, contact the communication arts department office. Prerequisites: COM-2050 Communication Theory; COM-2220 Communication Research; COM-2820 Political Communication; COM-3120 Argumentation and Debate; COM-3150 Gender, Politics, and Communication; COM-3810 Political Speechwriting; COM-4210 Public Opinion and Polling;COM-4810 Research Pre-Seminar. 0 hours

COM-4830 Research-Post Seminar-Sp

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-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.

Criminal Justice (CRJU)

CRJU-1310 Introduction to Criminal Justice-Fa 3 hours Introduction to the discipline and institutions of criminal justice in the United States. Law enforcement, the courts, and corrections will be recognized in an open systems sense as interacting and interdependent institutions. On occasion, timely issues will be considered as they relate to criminal justice agencies.

CRJU-1350

Career Planning for the Criminal Justice Professional-Sp

The course is designed to provide an understanding of how to select the right major as a student and how to identify your professional career aspiration. Understanding one's unique skill set, interest, and God's will is paramount to identifying the correct vocation to select. This course will utilize two personal assessment instruments to help students better understand their personal profile in relationship to professional opportunities. Students will learn the fundamentals of how to develop and implement a career plan. Prerequisite: CRJU-1310 Introduction to Criminal Justice. (Fee: \$60)

CRJU-2200 Criminology-Fa

3 hours

1 hour

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC. 3 hours

CRJU-2310 Juvenile Delinguency-Sp

Study and assessment of causal theory and problems of correction and prevention of delinquency. Crosslisted as CRJU or SOC (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. Crosslisted as CRJU, SOC, or SWK. Prerequisite: PYCH-1600 General Psychology, SOC-1300 Introduction to 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) 3 hours

CRJU-3310 Corrections Administration-Fa Contemporary issues related to management of correctional organizations from the administrator's perspective within the context of legal and political parameters. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3350 Criminal Law-Sp

3 hours

Focuses on the general classification of criminal offenses, rules of construction, burden and degree of proof, jurisdiction and venue, limitations to criminal prosecution, requirements for criminal liability, culpable mental states, defenses to criminal liability, and elements of criminal offenses. Prerequisite: CRJU-1310 Introduction to Criminal Justice. 3 hours

CRJU-3360 American Judicial System-Fa

An introduction to federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3390 Criminal Evidence-Sp

3 hours

Focuses on the evidence process applicable to criminal case preparation and presentation in court. Emphasis on types of evidence, tests of admissibility, objections, weight of evidence, witness competency and credibility, defenses, suppressions, order of evidence presentation at trial, and rules of evidence. Prerequisite: CRJU-1310 Introduction to Criminal Justice. CRJU-3400 Criminal Procedure-Sp 3 hours

Pertains to procedural law, which governs the enforcement of substantive criminal law. Emphasis on legal authority of law enforcement personnel and rights of the accused person with a review of pertinent U.S. Supreme Court decisions. Consideration is given to various procedural stages from criminal charges through post-conviction appeal. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-3410

3 hours Ethics and Civil Liability for Criminal Justice Personnel-Sp

Focuses on civil liability issues with a review of pertinent U.S. Supreme Court decisions. Emphasis on federal civil liability, tort liability and damages, acts of negligent employment, qualified immunity, seizures and civil liability, special duty to protect, liability for policy or custom, and preventive measures. Prerequisite: CRJU-1310 Introduction to Criminal Justice. CRJU-3700

Financial Management for Social Science Professionals-Fa

Biblical principles of personal financial responsibility and their importance for honoring God, a Christian testimony, and avoiding monetary-corruptive influences in a criminal justice career. Prerequisites: CRJU 1000-level core courses; ECON-2110 Essentials of Economics; or permission of instructor. CRJU-3990 Criminal Justice Internship-Fa, Sp, Su 3-12 hours

This internship places students in a professional criminal justice setting where they will gain insight into the practical and challenging situations of a career in criminal justice. Under supervision, students will apply classroom knowledge and contribute to agency operations. Students may earn up to 12 credit hours. Prerequisite: CRJU 1000 and 2000-level core courses or program director's permission.

CRJU-4150 Homeland Security-Fa 3 hours This course will study emergency planning and response

management, multi-jurisdictional and interagency coordination, specific threats and advisory system, intelligence for policymaking, and the Homeland Security Act. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-4160 International and Domestic Terrorism-Sp 3 hours

In-depth study of terrorism, focusing worldwide and domestically. An intensive examination of ongoing international conflicts, narco-terrorism, eco-terrorism, cyber-terrorism, weapons of mass destruction, geographical trouble spots, enemies of the United States, terrorism-counter-terrorism theory and options, terrorism history, law, civil liberties, and Homeland Security. CRJU-4200 Police Administration-Fa 3 hours

3 hours

Focuses on contemporary policing issues and related administrative matters from the perspective of executive leadership. Emphasis on management of organizational resources regarding basic line and staff functions. Consideration is given to contemporary issues of community-oriented policing and federal legislative mandates. Case study is utilized. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

CRJU-4320 Criminal Investigation-Fa

3 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-4330

Contemporary Issues in Criminal Justice-Sp Analysis of key issues influencing the criminal justice system. **CRJU-4440 Special Topics-Criminal Justice** 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

CRJU-4630 American Constitutional Law-Sp

3 hours In-depth analysis of selected Supreme Court decisions and their relevance to political, social, economic, and religious dimensions of American life.

CRJU-4900 Research Issues in Criminal Justice–Fa 3 hours This is a capstone course for criminal justice majors. The class will usually focus on a significant issue in contemporary criminal justice. Major papers will be presented by individual students on sub-categories of the primary topic. Additionally, the class will prepare a project that will be presented in a public forum. Prerequisite: senior status as a CRJU major. (Fee: \$100)

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3 hours

CRJU-4960 - CS-4820

CRJU-4960

Independent Study in Criminal Justice

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Computer Science (CS) CS-1210 C++ Programming-Fa, Sp

2 hours

1-3 hours

Introduction to computer programming, software engineering principles, structured program design and implementation, and object-oriented design using the C++ programming language; students will become familiar with compiling programs in the UNIX operating system. One lecture hour and two one-hour laboratories per week. (Fee: \$50)

CS-1220 Object-Oriented Design Using C++-Fa, Sp 3 hours Continuation of CS-1210 C++ programming to include pointers, the object paradigm, and abstract data types; advanced topics include exception handling, event-driven programming, and Graphical User Interface (GUI); principles of object-oriented design are applied to programming tasks in both the UNIX and

Windows environments. Prerequisite: CS-1210 C++ Programming. (Fee: \$50) CS-2210 Data Structures Using Java-Fa, Sp 3 hours

Introduction to the proper use of data structures for developing efficient software; data structures include stacks, queues, priority queues, hash tables, trees, and graphs. Students will develop skill in object-oriented design and the Java programming language. Design project required. Prerequisite: CS-1220 Object-Oriented Design Using C++. (Fee: \$50)

CS-3210 Programming Language Survey-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 and contemporary design issues such as threads, real-time systems, multiprocessor scheduling, distributed systems, security, and object-oriented design. Course content is developed through lectures, student research of the relevant literature, presentations, and programming projects using both C++ and Java. Prerequisite: CS-2210 Data Structures Using Java. (Fee: \$50)

CS-3410 Algorithms-Fa

3 hours

Introduction to classical algorithms that have broad application in solving computer science problems; topics include analysis of algorithms, advanced data structures, graph algorithms, numerical methods, and NP-completeness. Prerequisite: CS-2210 Data Structures Using Java; MATH-2510 Discrete Math for Computer Science (Fee: \$50) 3 hours

CS-3510 Compiler Theory and Practice-Sp

Introduction to the foundational technology of modern compilers, with emphasis on underlying theory and practical techniques for implementing a compiler by applying objectoriented and appropriate data structures. Design project typically developing a compiler is required. Prerequisite: CS-3410 Algorithms. (Fee: \$50) (even years)

CS-3610 Database Organization and Design-Sp 3 hours

Introduction to the analysis, design, and implementation of relational databases and The Structured Query Language (SQL); topics include data modeling techniques, data model to logical schema conversion techniques, relational algebra, SQL, database file organizations, query evaluation, transaction management, and client-server application architectures. Design project required. Prerequisites: CS-2210 Data Structures Using Java; MATH-2510 Discrete Mathematics for Computer Science. (Fee: \$50) CS-3920 Computer Science Internship-Fa, Sp 1-3 hours

An opportunity for a computer science student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in the industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting. No more than one hour of CS-3920 can be used to fulfill program technical elective requirements. Prerequisites: junior or senior computer science major status; faculty advisor permission. 3 hours

CS-4220 Web Applications-Sp

Introduction to the design and implementation of web-based applications using tools such as JavaScript, PHP, JSP, and Java servlets; applications will be developed using both the IIS and Apache servers. Multiple design projects required. Prerequisite: CS-2210 Data Structures Using Java. (Fee: \$50)

CS-4320 Network Security-Fa

3 hours

Introduction to network security, including policy, malicious code, intrusion detection, prevention, response, cryptographic protocols for privacy and integrity, tradeoffs between risk of misuse, cost of prevention, and societal issues. Prerequisite: CS-3310 Operating Systems. (Fee: \$50)

CS-4410 Parallel Computing-Fa

3 hours

3 hours

3 hours

Introduction to the exploitation of parallelism to solve computationally intensive problems; explores schemes for achieving parallelism, architectures required for parallel computing, performance analysis, and parallel algorithm design; uses common standards for message passing (e.g., MPI), local clusters and remote supercomputer systems. Prerequisites: CS-3410 Algorithms. (Fee: \$50) (even years)

CS-4710 Computer Graphics-Fa

Introduction to two- and three-dimensional computer graphics; topics include analytic geometry of computer graphics (vectors, planes, clipping, visibility testing) and techniques for enhancing graphical realism such as lighting and shading, texture mapping, bump mapping, and reflection. Prerequisite: CS-3410 Algorithms, MATH-2510 Discrete Math for Computer Science. (odd years) (Fee: \$50)

CS-4810 Software Engineering I-Fa

The capstone design experience for computer science majors. Introduction to software engineering principles focusing on requirement development, detailed design, project scheduling, guality assurance, and testing. Student teams meet regularly to develop a project management plan, a requirements document, a detailed design, and begin to implement their project that will be completed in CS-4820. Prerequisite: CS-3410 Algorithms. (Fee: \$50) 4 hours

CS-4820 Software Engineering II-Sp

Continuation of CS-4810 Software Engineering I. Student teams will complete the implementation, testing, and release of their capstone project, submit regular progress reports, prepare a final report, and make a formal project presentation. Prerequisite: CS-4810 Software Engineering. (Fee: \$50)

CS-4880 Topics in Computer Science-Fa, Sp

Selected topics in computer science that will complement or extend existing courses or expose students to topics not taught in other courses such as distributed computing, artificial intelligence, robotics, advanced algorithms, and numerical methods; may be proposed by a computer science faculty or student. Prerequisite: faculty advisor and instructor's permission.

CS-4900 Independent Study in Computer Science 1-3 hours

Opportunity to perform independent study or research in computer science and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Prerequisites: major in computer science; permission of the research instructor

Developmental (DEV)

DEV-0900 Intermediate Algebra-Fa, Sp

2 hours

1-3 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.

Economics (ECON) ECON-2110 Essentials of Economics-Sp

The course provides an introduction to the essential principles of economics. These principles would include such areas as supply and demand, elasticity, productivity and cost analysis, economic efficiency, national income, the consumer price index, monetary and fiscal policy, business cycles, and economic performance. Course not applicable to any major from the department of business administration and also not open to students with credit for ECON-2330 Microeconomics and/or ECON-2340 Macroeconomics.

ECON-2330 Microeconomics-Fa, Sp

3 hours

3 hours

The area of economic inquiry that is concerned with the effect of human behavior on the conduct of affairs within rather narrowly defined units. It is the study of decision making regarding consumption, production, and exchange that is carried on by individual households and by business firms. ECON-2340 Macroeconomics-Fa, Sp 3 hours

The area of economic study that focuses on how human behavior affects outcomes in highly aggregated markets, such as the market for labor or for consumer products. It is a study of the behavior of the economy as a whole, including the study of economic phenomena such as interest rates, the price level and national income, and output and employment. Prerequisite or corequisite: ECON-2330 Microeconomics or permission of instructor.

ECON-3130 Government and Business-Sp

3 hours

A study of the governmental agencies and their effect on American business. Case studies and current events are developed to show the trends and status of various laws and regulations. The economic impact and difficulties that arise in managing a business are reviewed. Prerequisite: ECON-2330 Microeconomics. (odd years)

ECON-3310 Money and Financial Markets-Sp 3 hours

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with FIN-3310.

ECON-3340 History of Economic Thought 3 hours Principal figures in the development of economic ideas and the contribution of each period of economic thought from the mercantilist to the present. Prerequisite: ECON-2330

Microeconomics. (even years)

ECON-3350 Comparative Economic Systems-Fa 3 hours

Analysis of different types of economic systems. Special emphasis is placed on centralized planning from both a theoretical and empirical perspective. Centralized economic planning is compared and contrasted with a free-market distribution of resources. Individual country case studies are included. Prerequisite: ECON-2340 Macroeconomics or permission of instructor. (odd years)

ECON-3360 International Trade and Economics-Fa 3 hours A study of international economic theory and international trade policy. The economic basis of trade and factor mobility, the benefits of international trade, and the barriers to international trade flows will be examined. Prerequisite: ECON-2330 Microeconomics or permission of instructor.

ECON-3370 Labor Economics-Sp

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) 3 hours

ECON-3380

Economic Development and Political Economy-Sp

A study of the interaction of political and economic systems to produce economic development and growth of nation states. A framework for analysis of development is explored and applied to specific case studies of both industrial and developing economics that have recently undergone significant change. Prerequisite: ECON-2340 Macroeconomics or permission of instructor.

ECON-3390 Public Finance-Sp

3 hours

3 hours

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)

Early Childhood/Special Education (ECSP)

ECSP-2500 Young Children with Special Needs-Sp

An introduction to the education of young children with special needs. The course will focus on child development and factors affecting development, partnership with families, as well as strategies for nurturing language and cognitive development. Prerequisite: EDUC-1000 The Education Profession, Introduction to Teaching Block.

Course Descriptions

ECSP-3500 – EDEC-4450

ECSP-3500

3 hours

Assessing and Teaching Young Children w/ Special Needs-Sp

A study of educational tests and materials for teaching and assessing young children with disabilities. Teacher candidates will develop assessment strategies and lesson plans for children in pre-Kindergarten special education programs. *Prerequisite: EDUC-1000 The Education Profession, Introduction to Teaching Block, ECSP-2500 Young Children with Special Needs.* **ECSP-3550 3 hours**

Clinical: Young Children w/ Special Needs-Sp

The course provides a clinical experience for the development of skills and strategies for instruction of students with exceptional educational needs in a pre-Kindergarten setting. Emphasis is on understanding of development and adaptation of curriculum, materials, and teaching skills. *Prerequisite: ECSP-2500 Young Children with Special Needs, ECSP-3500 Assessing and Teaching Young Children with Special Needs.* (Fee: \$140)

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-2300 Phonics and the Reading Process—Fa, Sp **4 hours** The study of phonics and the place of phonics in the overall reading program. The course focuses on the four parts of the reading process: reading, speaking, listening, and writing. Special emphasis on literacy and reading readiness. *Prerequisite: EDUC-1000 The Education Profession.*

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 Early Childhood Methods I block.* (Fee: \$10) 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 Early Childhood Methods I block.*

EDEC-3800

4 hours

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 Early Childhood 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 Early Childhood Methods I block. (Fee: \$45) 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 Early Childhood Methods I block.* (Fee: \$135) EDEC-3990 1-3 hours

Independent Study in Early Childhood Education–Fa, Sp, Su An investigation of contemporary topics in early childhood

education through reading, writing, or creative projects. 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 Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.*

EDEC-4100

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 Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.*

EDEC-4200 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 Early Childhood Methods I block. Corequisite: other courses in the Early Childhood Methods II block.* (Fee: \$35) EDEC-4300 3 hours

Teaching Social Studies: Early Childhood-Fa, Sp

An examination of social studies curricula for the young child with particular emphasis on the Ohio Model, the NASS Standards, and the integration of social studies with other disciplines. Instructional methodologies that emphasize the teaching of thinking, student interaction, and the use of instructional technologies will be modeled and practiced. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisite: other courses in the Early Childhood 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 Early Childhood Methods I block.* (Fee: \$105)

3 hours

EDEC-4880

Topics in Early Childhood Education-Fa, Sp, Su

Selected topics in early childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDEC faculty or student. Prequisites: faculty advisor and instructor's permission

EDEC-4900

10-12 hours

3 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 Early Childhood Methods II block. (Fee: \$220)

Middle Childhood Education (EDMC)

EDMC-3300

Topics in Middle School Mathematics-Sp

An investigative approach to selected mathematics topics that are taught in middle schools. Topics include logic, mathematics modeling, formulating, and problem solving in both mathematical and every day life situations. Real world connections with opportunities for exploration and communication by written, oral, and technological presentations are provided. Prerequisite: EDUC-2800 Principles of Mathematics II.

EDMC-3500

3 hours

Principles of Teaching Middle School-Sp

Teacher candidates learn to develop instruction and various types of assessment based on observable learning objectives aligned with curriculum guides. Emphasis will be given to instructional models most appropriate for middle school students, including use of instructional technology. Prerequisite: admission to the teacher education program. Corequisite: other courses in the M.C. Methods I block.

EDMC-3600

3 hours

Phonics and the Structure of Language-Sp An introduction to the rationale, skills, instructional and assessment strategies, teaching aids, resource materials, and appropriate technologies for the teaching of phonics. Emphasis given to the source, structure, function, and history of spoken language. Prerequisite: admission to the teacher education program. Corequisite: other courses in the M.C. Methods I block. EDMC-3700 4 hours

Teaching Reading Through Middle School Literature-Sp

A survey of the early history, major types, and modern trends of literature for children in grades 4-9. The social and personal value of literature is studied along with methods for using trade books to support reading instruction in an integrated reading/ writing/language arts program. Prerequisite: admission to the teacher education program. Corequisite: other courses in the M.C. Methods I block. 3 hours

EDMC-3800

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.

1-3 hours EDMC-3950

Middle School Clinical I: Teaching Reading-Sp

2 hours

1-3 hours

2 hours

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: \$115)

EDMC-3990

Independent Study in Middle Childhood Education-Fa, Sp, Su An investigation of contemporary topics in middle childhood education through reading, writing, or creative projects. 3 hours

EDMC-4000 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

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. 3 hours

EDMC-4100

Teaching Mathematics: Middle Childhood-Fa

An introduction to the objectives, skills, and instructional strategies for teaching middle school mathematics, based on the Ohio Model and NCTM Standards. An associated clinical experience provides opportunity for theory-driven application of knowledge and skills. Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block.

EDMC-4200 Teaching Science: Middle Childhood-Fa 3 hours

An introduction to the objectives, skills, and instructional strategies for teaching middle school science, based on the Ohio Model and NSTA Standards. The course provides a particular emphasis on hands-on science instruction, the scientific method, and the integration of science with other disciplines. Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$95). EDMC-4300 3 hours

Teaching Social Studies: Middle Childhood-Fa

An introduction to the objectives, skills, and instructional strategies for teaching middle school social studies, based on the NSSA Standards. The course provides a particular emphasis on the Ohio Model and the integration of social studies with other disciplines. Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$75) 2 hours

EDMC-4440 Middle Childhood Clinical II-Fa

This clinical experience allows the teacher candidate to apply the theories, principles, and techniques provided in the associated methods courses. Prerequisite: successful completion of the M.C. Methods I block. Corequisite: other courses in the M.C. Methods II block. (Fee: \$135)

EDMC-4880

1-3 hours

Topics in Middle Childhood Education -- Fa, Sp, Su Selected topics in middle childhood education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDMC faculty or student. Prerequisites: faculty advisor and instructor's permission.

EDMC-4900

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: \$250)

Music Education (EDMU)

EDMU-1000 MENC-Fa, Sp

0 hours

The National Association for Music Education is to advance music education by encouraging the study and making of music by all. MENC is the primary professional organization for music educators. The campus chapter provides informative seminars including a focus on Value Added Assessment along with service activities. MENC offers music educators a connection to the professional world of music education and increased understanding of the role of MENC in the field of music teaching. All music education majors are required to enroll in this course as part of their professional development and career preparation. A minimum of 8 semesters of satisfactory participation is required. (Fee: \$30)

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

Study of the historical background and pedagogical and performance techniques of the guitar. Required of music education majors pursuing the choral track. Open to other students by permission of instructor. (Fee: \$40)

EDMU-2910 Woodwind Methods-Sp

2 hours

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the woodwind instruments (i.e., flute, oboe, clarinet, saxophone, and bassoon). (Fee: \$40) (even years)

EDMU-2930 String Methods-Fa

2 hours

This course presents a framework of learning environments and varied activities through which students gain the knowledge and acquire the skills requisite to playing and teaching the string instruments (i.e., violin, viola, cello, string bass). (Fee: \$40) (odd years)

EDMU-2950 Percussion Methods-Sp 2 hours Concentration in snare drum techniques and an introduction to tympani and tuned percussion methods. (Fee: \$40) (odd years)

EDMU-3710 Music for Early Childhood–Fa 3 hours Music literature and teaching aids for children, including basic music theory, development of skills on keyboard, classroom instruments, and voice; music in the curriculum; and teaching music concepts. (Fee: \$30)

EDMU-3720 Music for Adolescent/Young Adults-Sp 3 hours

The history of and basis for music in the secondary curriculum, administration of the music program, methods of teaching music in groups, and sources of materials for instruction. (Fee: \$30)

EDMU-3730 Vocal Pedagogy-Fa 2 hours Philosophy, objectives, and techniques of offering vocal instruction at all levels with emphasis on vocal production and pedagogical approaches. Prereguisite: CLMU-1860 Voice Class or completion of sophomore vocal review.

EDMU-3750 Instrumental Pedagogy-Fa

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) 1-3 hours

EDMU-4990

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.

Education (EDUC)

1 hour

2 hours

EDUC-1000 The Education Profession-Fa, Sp 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. (Fee: \$129)

EDUC-1050 Contemporary Christian Schools-Fa, Sp 0 hours Teacher candidates arrange a field experience for five consecutive full days in a Christian school setting where they observe and participate in classroom activities. A follow-up report is required. Prerequisite: EDUC-1000 The Education Profession or permission of instructor.

EDUC-1800 Principles of Mathematics I-Fa, Sp 3 hours A framework for the content of this course is Ohio's Competency Based Comprehensive Programs for Mathematics (NCTM Standards). The course utilizes a problem-solving approach and makes connections to real-world situations and other disciplines. Prerequisite: EDUC-1000 The Education Profession.

EDUC-2000 Introduction to Teaching-Fa, Sp 2 hours An introduction to the structure, culture, governance, and philosophies of public schools in the United States. A history of American public education is presented, focusing on multicultural issues that affect American schooling. A general introduction to techniques of instruction and class management is presented. Prerequisites: EDUC-1000 The Education Profession; ENG-1400 Composition; COM-1100 Fundamentals of Speech. Corequisites: other courses in the Introduction to Teaching block. (Fee: \$40) EDUC-2100 Technology in the Classroom-Fa, Sp 2 hours

Teacher candidates learn to use a wide range of technology for developing and enhancing classroom instruction. The class focuses on the technology required for projects to be done in EDUC-2000 Introduction to Teaching and in the upper-level methods courses. Prerequisite: EDUC-1000 The Education Profession.

1 hour

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. Corequisites: other courses in the Introduction to Teaching block. (Fee: \$90)

EDUC-2400 Children's Literature-Fa, Sp 3 hours A survey of the early history, major types, and modern trends of literature for children in preschool through grade 5. The social and personal value of literature is studied along with methods for using trade books for reading instruction. Prerequisite: EDUC-1000 The Education Profession.

EDUC-2500 Educational Psychology-Fa, Sp 3 hours An introduction to the principles of child and adolescent

development, learning theories, and the principles and processes that affect teaching and learning. The 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 department chair. 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, Sp, 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. 2 hours

EDUC-3600

Principles Value Added Assessment-Fa, Sp

A study of assessment concepts and procedures in the K-12 school setting, including the Ohio Model of Values Added Assessment. Application of Skills in the field is required. Prerequisite: Enrollment in methods block. Corequisite: Methods I block and Principles of Teaching.

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-3500 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. 3 hours

EDUC-4000

Reading in the Content Area: Multi-Age-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 Adolescent and Young Adult Mathematics and Multi-Age 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. 0 hours

EDUC-4510

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 chair, 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 chair. (Fee: \$25)

Course Descriptions

EDUC-4880 - EDSP-2000

EDUC-4880

Student Teaching (Nonlicensure) and Seminar-Fa, Sp

A teaching experience working with students in a range of age levels under the supervision of the cooperating teacher and University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. Prerequisite: Completion of all TEP requirements except internship. (Fee: Early Childhood \$220; Middle Childhood \$250; Adolescent and Young Adult Education \$220; Special Education \$220; Multi-Age \$250; and Early Childhood/Special Education \$340)

EDUC-4900

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: \$250)

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) 12 hours

EDUC-4950 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: \$340)

Adolescent / Young Adult Education (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 Adolescent and Young Adult 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 Adolescent and Young Adult 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 Adolescent and Young Adult Principles of Teaching block or permission of department chair.

EDSE-3900 Music Education Field Experience-Fa, Sp 2 hours This supervised experience in a K-12 school prepares the teacher candidate for the student teaching experience by providing an opportunity to practice teaching methods. Candidates will be evaluated and must show potential to be successful in student teaching to receive credit. Prerequisites: Admission to the Teacher Education Program and completion of or concurrent registration in EDMU-3710 Music for Early Childhood; and/or EDMU-3720 Music for Adolescent/Young Adults. (Fee: \$90)

EDSE-3990

10-12 hours

10-12 hours

Independent Study in Adolescent and Young Adult Education -Fa, Sp, Su

An investigation of contemporary topics in adolescent and young adult education through reading, writing, or creative projects.

EDSE-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 Multi-Age Spanish and Adolescent and Young Adult teacher education program majors. Prerequisite: admission to the teacher education program. Corequisites: other courses in the Adolescent and Young Adult 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 Adolescent and Young Adult Principles of Teaching block.

EDSE-4450

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 Adolescent and Young Adult Principles of Teaching block. (Fee: \$90) 1-3 hours

EDSE-4880 Topics in Adolescent and Young Adult Education-Fa, Sp, Su

Selected topics in adolescent and young adult education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSE faculty or student. Prerequisite: faculty advisor or instructor's permission.

EDSE-4900 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: \$180)

Special Education (EDSP)

2 hours

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.

1-3 hours

Course Descriptions EDSP-2050 – EDSP-4880

EDSP-2050

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-2400 Language Development–Sp 2 hours

An introduction to speech and language development for teachers of students with exceptional learning needs. (Fee: \$10). EDSP-2500 1 hour

Survey of Mental Retardation and Developmental Disabilities: Early Childhood–Su (Out of class)

Survey of the multidisciplinary perspectives, identification, early influences, causation, levels of support, and practices related to the education of individuals with mental retardation and developmental disabilities in early childhood. Offered summers only in a mediated (out-of-class) format. (Fee: \$60) EDSP-2700 3 hours

Teaching Children with Mild to Moderate Disabilities-Fa

An overview of mild to moderate disabilities with a focus on instructional strategies and accommodations for students in inclusive settings. *Prerequisite: TEP Acceptance, Early Childhood Methods I.* (Fee: \$10)

EDSP-3100

3 hours

1 hour

Diagnostic and Remedial Reading–Fa, Sp An introduction to the use of formal and informal assessment techniques for identification and remediation of reading difficulties. Teacher candidates learn practical instructional strategies for teaching students with reading problems and apply the techniques by working with elementary students in a school setting. *Prerequisite: EDUC-2300 Introduction to the Reading Process. For Early Childhood majors. Corequisite: other courses in the Methods I block.*(Fee: \$60)

EDSP-3150

3 hours

Intervention and Diagnosis in Reading for Special Educators-Sp

Study and implementation of individual testing and teaching strategies for skill development in reading, analysis of programs and materials, and development of individualized plans for remediation of specific skill deficits. *Prerequisites: the Introduction to Teaching block; EDUC-2300 Introduction to the Reading Process. For Special Education majors. Corequisite: other courses in the Methods I block* (Fee: \$60)

EDSP-3500 Special Education Law-Su

1 hour

An overview of special education law with an emphasis on the history of the law and children with disabilities and understanding the implementation and accountability mechanisms of inclusive education. *Prerequisites: Introduction to Education block, Corequisites: Intro block may be taken during the same summer.* 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: \$135)

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 the teacher candidate's communication with individuals with special needs, parents, educational team members, and other professionals. Also includes strategies for adapting and modifying instruction for students with special needs. *Prerequisite: admission to the teacher education program. Corequisite: Other courses in the Methods II block.* **EDSP-4300 2 hours**

Behavioral and Instructional Management-Fa

A presentation of the learning theory, motivation, and behavioral approaches to management of the social and academic environment of learners with mild-moderate special educational needs. Emphasis is on applied behavior analysis and functional assessment. *Prerequisite: admission to the teacher education program. Corequisites: other courses in the Special Education block.*

EDSP-4400 Assessment in Special Education–Fa4 hoursStudy in the administration and interpretation of formal andinformal educational assessment instruments to identify andplace students with mild-moderate needs in special education andthe development of appropriate education goals and objectives.Prerequisite: admission to the teacher education program.Corequisites: other courses in the Special Education block.EDSP-44503 hours

Special Education Clinical: Middle Childhood–Fa, Sp

An opportunity to implement the objectives, skills, and instructional strategies for teaching mathematics, science, and social studies to students with mild to moderate needs at the middle childhood level. *Prerequisite: successful completion of the Early Childhood Methods I block. Corequisites: other courses in the Early Childhood Methods II block.* (Fee: \$135) EDSP-4550 3 hours

Special Education Clinical: Adolescent and Young Adult

An opportunity to use the skills learned developing and implementing individualized educational plans and behavior intervention strategies for adolescent and young adult students with mild to moderate special educational needs. *Prerequisite: admission to the teacher education program. Corequisite: other courses in the Special Education block.* (Fee: \$135) EDSP-4880 1-3 hours

Topics in Special Education-Fa, Sp, Su

Selected topics in special education that will complement or extend existing courses or expose candidates to topics not taught in other courses; may be proposed by an EDSP faculty or student. *Prerequisites: faculty advisor and instructor's permission.*

Course Descriptions EDSP-4900 – EGCP-4950

EDSP-4900

10-12 hours

Student Teaching and Seminar: Special Education

A teaching experience for special education only majors with students who have mild-moderate special educational needs under the supervision of the cooperating teacher and the University supervisor. Seminars encourage reflection on the teaching experience as well as discussion of issues of importance to educators. Prerequisite: successful completion of the Early Childhood Methods II and Special Education blocks. (Fee: \$220)

Computer Engineering (EGCP) EGCP-1010 Digital Logic Design-Fa, Sp

3 hours

Introduction to digital logic design, number systems, Boolean algebra, Karnaugh maps, computer simulation tools, combinational network design, flip flops, counters, state machines, and sequential networks. Circuits are designed in class and are built and evaluated in the laboratory. Two lecture hours and one two-hour laboratory per week. (Fee: \$100)

EGCP-2110 Microprocessors-Fa

3 hours

Introduction to the fundamentals of microprocessors, including assembly language programming, memory hierarchies, peripheral device interfacing, interrupts, and microcomputer design. Two lecture hours and one two-hour laboratory per week; design project required. Prerequisite: EGCP-1010 Digital Logic Design. (Fee: \$100)

EGCP-3010 Advanced Digital Logic Design-Sp 3 hours Advanced treatment of digital logical design techniques and practices with emphasis on rapid electronic prototyping and effective use of advanced computer-aided design tools; schematic, textual, and VHDL design entry; arithmetic circuits, advanced finite-state machines, and advanced controller implementations. Three lecture hours per week with periodic integrated laboratory; multiple projects and laboratory experiences including a class design contest usually involving a robot. Prerequisites: EGCP-1010 Digital Logic Design; CS-1210 C++ Programming; junior status or permission of instructor. (Fee: \$100)

EGCP-3210 Computer Architecture-Sp 3 hours

Introduction to computer architecture with an emphasis on hardware, RISC vs. CISC, pipeline and vector processing, I/O, and memory hierarchy including caches. Students design and construct a small microprocessor using a logic simulator and then write an assembler for their processor. Prerequisites: EGCP-2110

Microprocessors; CS-1210 C++ Programming. EGCP-3510 Software Engineering-Fa

3 hours

1-3 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

An opportunity for a computer engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with a faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGCP-3950 Topics in Computer Engineering-Fa, Sp 1-3 hours

Selected topics in computer engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. Prerequisite: instructor's permission. EGCP-3980 1-3 hours

Independent Study in Computer Engineering

Opportunity to perform independent study or research in computer engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. Prerequisites: junior or senior engineering major status; faculty advisor's permission. EGCP-3990 1-3 hours

Project Design in Computer Engineering

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. Prerequisite: instructor's permission. EGCP-4210 Advanced Computer Architecture–Fa 3 hours

Advanced study of computer architecture with an emphasis on performance, performance metrics, benchmarks, integer and floating point concepts, data-path and control, super-scalar processing and pipelining, memory hierarchy, I/O and peripherals, vector, array and parallel processors, and multiprocessors. Prerequisites: EGCP-3010 Advanced Digital Logic Design; EGCP-3210 Computer Architecture. (Fee: \$100)

EGCP-4310 Computer Networks-Fa 3 hours Introduction to the basic concepts of computer networking. The course will present the layered network architecture protocols and examine each of the layers in depth. Important topics such as packet switching, internetworking, client-server computing, wireless networking, and network security will be addressed. Prerequisites: CS-2210 Data Structures Using Java; Co-requisite: CS-3310 Operating Systems. (Fee: \$50) EGCP-4810 4 hours

Computer Engineering Senior Design I–Fa

Design and development of electronic products to meet specific requirements. Introduction to computer system design, power supply design, hardware-software co-design, software engineering, system performance trade-offs, electronic design tools, prototype methods, estimating and managing time and cost constraints, and project management. Student teams prepare a project proposal, design and prototype a microprocessor-based system or sub-system, use computerized design tools, submit weekly progress reports, and conduct design reviews. Three lecture hours and one two-hour laboratory per week. Prerequisite: EGEE-3210 Electronics I, CS-3410 Algorithms, CS-3310 Operating Systems, and Senior status in computer engineering Corequisite: EGCP-4210 Advanced Computer Architecture. (Fee: \$100) EGCP-4820 4 hours

Computer Engineering Senior Design II-Sp

Continuation of EGCP-4810 Computer Engineering Senior Design I. Student teams will complete their capstone project, submit weekly progress reports, prepare a formal final report, and make a formal design review presentation. Prerequisite: EGCP-4810 Computer Engineering Senior Design I. (Fee: \$100) EGCP-4950 1-3 hours

Advanced Topics in Computer Engineering

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

Electrical Engineering (EGEE)

EGEE-2010 Circuits-Sp

5 hours

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, phasor analysis of RLC circuits, power in AC circuits, introduction to 3-phase circuits, mutual inductance, frequency response, Transforms, Laplace circuit analysis, Fourier Series, and introduction to transfer functions. Computer simulations and bread-board circuits are constructed and evaluated in the laboratory. Four lecture hours and one two-hour laboratory per week. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)

EGEE-2050 Circuits and Instrumentation-Sp 4 hours

Introduction to basic circuit analysis using Ohm's law, Kirchoff's laws, independent and dependent sources, Thévenin and Norton equivalency and source transformations, transient responses in RC, RL, and RLC circuits, operational amplifiers, and introduction to polyphase AC circuits. Circuit applications for transducers such as resistance strain gages, piezoelectric load cells, piezoelectric accelerometers, and thermocouples are emphasized along with measurement uncertainty analysis and statistical methods. Circuits are designed, simulated, constructed, and tested in the laboratory. Three lecture hours and one two-hour laboratory per week. This course does not satisfy the EGEE-2010 Circuits requirement for the Electrical or Computer Engineering majors. Prerequisites: PHYS-2120 General Physics II; MATH-2740 Differential Equations. (Fee: \$100)

EGEE-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 implementing passive and active analog filters; basic filter structures, passive network synthesis, operational amplifier limitations, multiple-amplifier filters, and filter realization methods. Prerequisite: EGEE-3110 Linear Systems. (odd years)

EGEE-3210 Electronics I-Fa

3 hours

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

\$100)

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:

Independent Study in Electrical Engineering Opportunity to perform independent research or study in 5 hours electrical engineering and allied fields of application. A formal

proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of independent-study hours. Prerequisites: junior or senior engineering major status and faculty advisor's permission. EGEE-3990 1-3 hours

Project Design in Electrical Engineering-Fa, Sp

An elective course for students to get academic credit for extracurricular design work in computer engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. Prerequisite: instructor's permission.

EGEE-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-3110 Linear Systems. EGEE-3510 Power Electronics-Sp 3 hours

Introduction to the fundamentals of power electronics, characteristics and application of semiconductor switches, motor control, device applications, and power processing design. Design project required. Prerequisite: EGEE-3210 Electronics I. (odd years)

EGEE-3530 Electrical Machines-Fa 3 hours Introduction to the fundamentals of power circuits and the principles of analysis and characteristics of transformers and AC and DC rotating machines. Two lecture hours and one two-hour laboratory per week. Prerequisite: EGEE-2010 Circuits; or EGEE-2050 Circuits and Instrumentation. (Fee: \$100)

EGEE-3920 Electrical Engineering Internship 1-3 hours An opportunity for an electrical engineering student to work closely with an industrial advisor. Specific attention is given to solving a particular problem(s) in that industry or firm. A faculty advisor assists in supervising and approving the internship, including assessing the number of credit hours. A final report (approximately seven pages per credit hour) describing the experience, including the problem and solution, is required. Must be arranged with faculty sponsor and work supervisor before starting and cannot be used to satisfy elective credit requirements. Prerequisites: junior or senior engineering major status; faculty advisor's permission.

EGEE-3950 Topics in Electrical Engineering-Fa, Sp 1-3 hours Selected topics in electrical engineering at the 3000-level that will complement or extend existing 2000- and 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. Prerequisite: instructor's permission. EGEE-3980

1-3 hours

Course Descriptions

Course Descriptions

EGEE-4110 - EGGN-3911

EGEE-4110 Digital Signal Processing-Fa

2 hours

Introduction to digital signal processing with emphasis on FIR and IIR filter design, application of Z-transforms and Fourier Transforms, spectral analysis, realization and frequency response of discrete-time systems, and properties and design of FIR and IIR filters with infinite and finite word-length processors. Filter designs are implemented in Matlab. Design project required. Prerequisites: EGEE-3110 Linear Systems; CS-1210 C++ Programming.

EGEE-4250 CMOS VLSI Design-Sp

3 hours

Introduction to CMOS VLSI design with emphasis on circuit analysis, modeling, mask layout, simulation, and design verification; both theoretical concepts and CAD tools are used together for circuit design and verification. Three lecture hours per week with integrated laboratory. Prerequisite: EGEE-3210 Electronics I. 3 hours

EGEE-4330

Advanced Communications and Networks-Fa

Analysis of the performance of analog and digital communication systems and networks in the presence of noise, M-ary signals, signal space concepts, orthogonal signals, and introduction to communication networks. Prerequisite: EGEE-3330 Communications Theory. Corequisite: EGEE-3370 Probability and Random Processes for Engineers or instructor's permission. EGEE-4410 Feedback Control Systems-Fa 4 hours

Introduction to the analysis and design of analog feedback control systems with emphasis on modeling, transfer functions, root locus, frequency response, Bodé plots, Nyquist Criterion, stability, compensator design for performance and robustness, PID, phase-lead, phase-lag, lead-lag, and performance indices. Three lecture hours and one two-hour laboratory or recitation per week. Design project required. Prerequisite: EGEE-3110 Linear Systems. (Fee: \$100)

EGEE-4450 Digital Control Systems-Sp

3 hours

Introduction to analysis and design of discrete-time sampleddata control systems, signal sampling, A/D and D/A conversion, quantization, application of Z-domain transfer function techniques, transient response, frequency response, stability and performance of computer controlled systems, digital compensation, and controller design. Design project required. Prerequisite: EGEE-4410 Feedback Control Systems.

EGEE-4510 Power Systems-Sp

3 hours

Principles of electrical power generation, transmission, and distribution, three-phase power circuits, power system analysis, load flow, symmetrical components, fault currents, system protection, and stability. Prerequisite: EGEE-3310 Electromagnetics. (Fee: \$50) (even years)

EGEE-4610 Medical Imaging-Sp

3 hours

Introduction to the physics, phenomenology, and engineering aspects of major medical imaging modalities: photon radiation, radiography, computed tomography, untrasound, and magnetic resonance imaging. Matlab will be used to process imagery. Prerequisite: EGEE-3110 Linear Systems. (odd years) **EGEE-4810** 4 hours

Electrical Engineering Senior Design I-Fa

Design and development of electronic products to meet specific requirements using the top-down design method. Introduction to serial communication design, design for reliability, product cost and safety, environmental issues, project management, electronic design tools, prototype methods, noise analysis in data conversion, and circuit-board layout. Student teams prepare a project proposal, design and prototype electronic subsystems using analog and digital integrated circuits and microcontrollers, use computerized design tools, and conduct design reviews. Three lecture hours and one two-hour lab per week. Prerequisites: EGEE-3220 Electronics II; EGCP-2110 Microprocessors; EGEE-3110 Linear Systems; senior status in electrical engineering. (Fee: \$100)

EGEE-4820

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 threehour laboratories per week. Prerequisite: EGEE-4810 Electrical Engineering Senior Design I. (Fee: \$100) EGEE-4950 1-3 hours

Advanced Topics in Electrical Engineering-Sp

EGGN-1110 The Engineering Profession–Fa

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

General Engineering (EGGN)

1 hour

0 hours

Introduction to the basic concepts and skills necessary to function effectively as a Christian engineer; ethical and moral issues in engineering practice and engineering computer applications. Term project introduces Christian heritage in science and engineering; students participate in group activities and design projects. (Fee: \$50)

EGGN-1960 Competition Project-Sp

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. 0 hours

EGGN-2960 Competition Project-Sp

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-3110 Professional Ethics-Sp 3 hours

Introduction to the theories of morality and philosophical issues of determining what is true and what is good. Applications are made to professional conduct, engineer-client relations, and product liability. Legal problems and the engineering code of ethics are discussed from a biblical perspective.

EGGN-3610 Biomedical Engineering Systems-Fa 3 hours Introduction to the field of biomedical engineering and the application of engineering to the field of medicine; fundamental aspects of measuring and modeling physiological systems, biomedical device design, tissue engineering, bioelectric phenomena, biosensors, physiological modeling, biomedical imaging, and biomaterials. Team taught by ME and EE professors. Prerequisites: Engineering major with junior standing; GBIO-1000 Principles of Biology 0 hours

EGGN-3910 Co-op I

First term for an engineering or computer science student to work in industry for one semester. A final report is required. Students completing a co-op work assignment and registered for this course are granted full-time student status. Prerequisite: junior status in engineering or computer science and enrollment in the co-op program. (Fee \$75). 0 hours

EGGN-3911 Co-op IA

First half of the first term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: junior status in engineering or computer science and enrollment in the co-op program. (Fee \$40).

Course Descriptions EGGN-3912 - EGME-3010

EGGN-3912 Co-op IB

0 hours

Second half of the first term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: EGGN-3911 Co-op IA. (Fee \$40).

EGGN-3920 Co-op II

0 hours

Second term for an engineering or computer science student to work in industry for one semester. A final report is required. Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB. (Fee \$75).

EGGN-3921 Co-op IIA

0 hours

First half of the second term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status Prerequisite: EGGN-3910 Co-op I or EGGN-3912 Co-op IB. (Fee \$40).

EGGN-3922 Co-op IIB

0 hours

Second half of the second term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: EGGN-3921 Co-op IIA. (Fee: \$40). 0 hours

EGGN-3930 Co-op III

Third term for an engineering or computer science student to work in industry for one semester. A final report is required. Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB. (Fee: \$75). May be repeated.

EGGN-3931 Co-op IIIA

0 hours

First half of the third term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: EGGN-3920 Co-op II or EGGN-3922 Co-op IIB. (Fee \$40). May be repeated.

EGGN-3932 Co-op IIIB

0 hours

Second half of the third term for an engineering or computer science student to work in industry part-time for one semester. A final report is required. Students enrolled in part-time co-op must register for six or more credit hours to maintain full-time student status. Prerequisite: EGGN-3931 Co-op IIIA. (Fee \$40). May be repeated.

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. 0 hours

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 or computer science. (Fee: \$35)

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.

Mechanical Engineering (EGME)

EGME-1810 Engineering Graphics-Fa

1 hour

Introduction to basic techniques of sketching, drawing, dimensioning, multiple views, sectioning, multi-view projections, and pictorial views. Introduction to commercial software for threedimensional solid modeling and preparing engineering drawings. (Fee: \$25)

EGME 2050 Computational Methods-Sp

4 hours

Introduction to computer programming and the numerical methods for solving roots of equations, simultaneous linear algebraic equations, ordinary differential equations, integration, introduction to finite-difference approximations, and least-squares curve fits. Pre- or Corequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations.

EGME-2310 Manufacturing and Finance-Fa

3 hours Introduction to the fundamentals of manufacturing and contemporary materials processing, molding, casting, forming, machining, inspection techniques, and quality assurance. Applications to the time value of money, break-even and payback analysis, and economic analysis of engineering alternatives. Prerequisite: EGME-2410 Properties of Engineering Materials. (Fee: \$55)

EGME-2410 Properties of Engineering Materials-Fa 4 hours

Introduction to the properties of metallic, ceramic, polymeric, and composite materials; plastic deformation, strengthening, fracture, fatigue, corrosion, diffusion, equilibrium and nonequilibrium processes, phase diagrams, electrical and magnetic properties, and application to materials selection. Three lecture hours and one two-hour laboratory per week. Prerequisite: EGME-2530 Statics and Mechanics of Materials. (Fee: \$100) EGME-2510 Statics-Fa 3 hours

Introduction to analyzing forces in isolated and connected 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-1720 Calculus II. (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-offreedom systems. Design project required. Prerequisite: EGME-2510 Statics or EGME-2530 Statics and Mechanics of Materials. Pre- or Corequisite: MATH-2740 Differential Equations. (Fee: \$10) EGME-3010 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 2-hour laboratories per week. Prerequisites: EGME-2630 Dynamics; EGEE-2050 Circuits and Instrumentation. Corequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. (Fee: \$100)

EGME-3020 – EGME-4050

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 3 hours

Introduction to Finite Element Analysis-Sp

Introduction to basic components of the finite element method including element selection, shape functions, strain-displacement and stress-strain relations, formulation of the stiffness matrix for 1-D, 2-D, and 3-D elements, linear strain and isoparametric formulations, application of boundary conditions, and interpretation of results; application to 2-D and 3-D problems and experience using a commercial code. *Prerequisites: EGME-2050 Computational Methods; EGME-2530 Statics and Mechanics of Materials.* (Fee: \$25)

EGME-3110 Thermodynamics-Fa

5 hours

2 hours

Introduction to engineering thermodynamics, properties of pure substances, work, heat, first and second laws of thermodynamics, energy, enthalpy, and entropy. Specific application to power, refrigeration cycles, and combustion processes. *Prerequisites: CHEM-1050 Chemistry for Engineers; MATH-2710 Calculus III.* **EGME-3130 Internal Combustion Engines**–Sp **3 hours**

Introduction to internal combustion engines, fuel-air cycles, engine simulation, emissions, engine performance and alternative fuels. *Prerequisites: EGME-2630 Dynamics; EGME-3110 Thermodynamics.*

EGME-3150 Heat Transfer-Sp

3 hours

Introduction to conduction, convection, and radiation heat transfer in one and two dimensions; free and forced convection, analytical and computational techniques applied to Fourier's Law of conduction, Newton's Law of cooling, and Stefan-Boltzman's Law of thermal radiation. A heat exchanger design project is required. *Prerequisites: EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics. Corequisite: EGME-2050 Computational Methods.*

EGME-3170 Thermal Systems-Sp

2 hours

Introduction to engineering thermodynamics, properties of pure substances, work, heat, enthalpy, and first law of thermodynamics. Introduction to conduction and convection modes of heat transfer. *Prerequisites: CHEM-1050 Chemistry for Engineers; MATH-2740 Differential Equations.*

EGME-3210 Fluid Mechanics-Fa

3 hours

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-Sp

Introduction to the physical and mechanical properties of metals and alloys; crystal structure, phase equilibria, defects, strengthening mechanisms, and kinetics of reactions. *Prerequisite: EGME-2410 Properties of Engineering Materials.*

EGME-3450 Plastic and Composite Materials–Sp **2 hours** Introduction to the properties and processing of plastics, resins, and adhesives; rheology, creep-deformation history, and injection molding. Fiber-reinforced, carbon-carbon, and metal-matrix composites are analyzed for strength, anisotropy, and applicability. *Prerequisite: EGME-2410 Properties of Engineering Materials.*

EGME-3610

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 metrismp in 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-Fa, Sp

Selected topics in mechanical engineering at the 3000-level that will compliment or extend present 2000- or 3000-level courses or expose students to topics not taught in other courses; may be proposed by the engineering faculty or students. *Prerequisite: instructor's permission.*

EGME-3980

Independent Study in Mechanical Engineering

Opportunity to perform independent study or research in the various branches of engineering and allied fields of application. A formal proposal for study must be approved by the faculty advisor before registering for this course. Up to three credit hours of engineering electives can be satisfied by an equivalent number of hours of independent study. *Prerequisites: junior or senior engineering major status; faculty advisor's permission.* EGME-3990 1-3 hours

Project Design in Mechanical Engineering

An elective course for students to get academic credit for extracurricular design work in mechanical engineering; project may be related to a design competition, ministry, industry, or personal interest. Cannot be used to satisfy engineering elective requirements. *Prerequisite: instructor's permission.* EGME-4050 2 hours

Finite Difference Methods In Engineering-Fa

Finite-difference approximations for derivatives and differential equations applied to solve engineering problems; consistency, stability, truncation error, and introduction to grid generation. *Prerequisites: EGME-2050 Computational Methods; MATH-2710 Calculus III.*

1-3 hours

1-3 hours

Course Descriptions

EGME-4060

Computational Fluid Dynamics-Sp

Introduction to computational fluid dynamics for solving 2-D and 3-D engineering problems. Formulations of the Navier-Stokes equations will be examined. The basis of the numerical methods in advanced CFD commercial codes will be studied for understanding how to intelligently use engineering software to solve problems. Topics include: formulation of new problems, generating CAD grids, identifying and writing appropriate boundary/initial conditions, selecting solution techniques and turbulence models available in the code, and running and interpreting the validity of the results. *Prerequisites: EGME-3210 Fluid Mechanics; EGME 4050 Finite Difference Fluid Methods.* **EGME-4160 Radiation and Solar Energy**–Fa **2 hours**

Introduction to the fundamentals of radiation heat transfer including shape factors, wave-length dependence, and material properties. Applications to solar energy engineering and design problems. *Prerequisite: EGME-3150 Heat Transfer.*

EGME-4250 Propulsion-Fa

2 hours

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

Introduction to the compressible flow of gases in engineering systems; isentropic flow in variable-area passages, shock and expansion waves; and flow with wall friction and heat transfer. *Prerequisites: EGME-2050 Computational Methods; EGME-3110 Thermodynamics; EGME-3210 Fluid Mechanics.* EGME-4410 3 hours

Introduction to Fracture Mechanics-Sp

Introduction to failure modes caused by static and dynamic loading, brittle fracture criteria, elastic behavior, stress fields around cracks, fatigue failure, stress corrosion cracking, and strain hardening mechanisms. *Prerequisite: EGME-2410 Properties of Engineering Materials.*

EGME-4530 Advanced Mechanics of Materials–Fa 3 hours

Advanced treatment of stress and strain including coordinate transformations, the eigenvalue problem, Mohr's circle and linear constitutive equations. Failure theories and energy methods, including Castigliano's theorems, are studied; applications to classical topics including analysis of beams with non-symmetrical sections, non-circular torsion, thin-wall beams, and beams on elastic foundations. *Prerequisite: EGME-2530 Statics and Mechanics of Materials.*

EGME-4560 Biomechanics and Biomaterials-Sp 3 hours

Introduction to biomechanics of the human body, reactions of biological tissue and synthetic materials to load, and the biomechanics of biomaterials. Advanced mechanical analysis of rigid and deformable bodies and fluid mechanics applied to bone, muscle, connective tissue and blood. This course will provide foundational knowledge to the engineering student for occupations in medical device manufacturing, health and sport sciences industries, and advanced fields of study. *Prerequisites: EGME-2410 Properties of Engineering Materials, PHYS-2120 General Physics II and MATH-2740 Differential Equations.* (odd years) **EGME-4610 Dynamics of Machines**–Fa **3 hours**

Dynamic analysis of machines and mechanisms; Newton's laws of motion, energy methods, force analysis, shaking forces, static and dynamic balancing, engine dynamics, multi-cylinder engines, and cam dynamics. *Prerequisite: EGME-3610 Kinematics and Design of Machines.*

2 hours

EGME-4660 Principles of Automatic Controls–Fa 3 hours

Introduction to theoretical and experimental analysis of classical analog feedback control systems with emphasis on modeling, transfer function formulation, frequency response, root locus, Bodé plots, stability, and compensator design. Three lecture hours and one two-hour laboratory or recitation per week; design project required. *Prerequisite: EGEE-2050 Circuits and Instrumentation.* (Fee: \$100)

EGME-4710 Vibrations-Sp

3 hours

3 hours

3 hours

Free and forced vibrations of mechanical systems having lumped mass and elasticity, single and multiple degree-of-freedom systems, matrix formulation, eigenvalues and eigenvectors, normal mode theory, Laplace Transform, dissipative systems, introduction to random, continuous, nonlinear vibrations, and engineering applications. *Prerequisite: EGME-2630 Dynamics.* (Fee: \$15) EGME-4720 Vibrations Lab-Sp 1 hour

Laboratory experiments to demonstrate and support EGME-4710 Vibrations; function and calibration of instrumentation and motion detection transducers, measuring the frequency response and impulse response function, electrodynamic shakers, instrumentation, Fast Fourier Transform, spectral analysis, and experience using a commercial FFT analyzer. One two-hour laboratory per week. *Pre- or Corequisite: EGME-4710 Vibrations*. (Fee: \$100)

EGME-4750

Random Vibrations and Signature Analysis

Introduction to vibration analysis of discrete and continuous systems to random excitation, harmonic vibration, transient response, convolution integral, Laplace and Fourier Transform, Discrete Fourier Transform, Fast Fourier Transform, random variables, coherence, correlation, auto- and cross-correlation, power spectral density, transfer function, and modal analysis; experience using a commercial FFT analyzer. Design project required. *Prerequisite: EGME-4710 Vibrations.* (Fee: \$100) EGME-4810 3 hours

Mechanical Engineering Senior Design I-Fa

This is the senior capstone design project for mechanical engineers. Student teams work independently on a design project to find a solution consistent with stated specifications using principles studied in previous courses. Work in this semester includes writing the proposal and performing background research and preliminary design. Students conduct a mid-term design review and end-of-semester oral and written presentation. Projects are advised by a faculty committee; course includes weekly written progress reports and meetings with the faculty project advisor. *Prerequisites: EGME-3850 Mechanical Design; EGME-3610 Kinematics and Design of Machines; EGME-3150 Heat Transfer; EGME-3020 Mechanical Engineering Lab II; and senior status.* (Fee: \$100)

EGME-4820

Mechanical Engineering Senior Design II-Sp

A continuation of EGME-4810, emphasizing detailed design, prototyping, troubleshooting, design modifications, project completion, reporting, and oral presentation. Students submit written progress reports and attend meetings each week with the faculty project advisor, conduct an oral presentation, and prepare the final report. *Prerequisite: EGME-4810 Mechanical Engineering Senior Design I.* (Fee: \$100) EGME-4950 1-3 hours

Advanced Topics in Mechanical Engineering-Sp

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

Course Descriptions EMTC-1110 - EMTC-3310

Electronic Media (EMTC)

EMTC-1110 Introduction to Electronic Media-Fa 3 hours A survey of electronic media, including history and

development, types, audience research, regulations, and globalization.

3 hours EMTC-1120 Audio Production-Fa, Sp

Students receive instruction and training in the operation of electronic equipment used in electronic media. This course emphasizes the roles of sound designer and engineer; the student will be introduced to the techniques of audio production and will produce a variety of media projects. (Fee: \$45)

EMTC-1210 Media Performance-Sp 3 hours

Examines all types of announcing and applies each with particular emphasis to radio and television performance. Emphasis is on the use of the voice as a tool for communication of ideas on a one-to-one basis. (Fee: \$45)

EMTC-2061 Proficiency in HTML-Fa, Sp 0 hours

The student will demonstrate the ability to create webpages using an HTML editor. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

EMTC-2062 Proficiency in Photoshop-Fa, Sp 0 hours

The student will demonstrate the ability to create screen designs for television and interactive media in Photoshop. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10) EMTC-2063 Proficiency in Illustrator-Fa, Sp 0 hours

The student will demonstrate the ability to create vector-based designs in Illustrator. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

EMTC-2110 Video Technical Training-Sp

3 hours This course provides hands-on training with all video production equipment, including cameras, lighting, sound, and editing. The student will learn basic television skills and technical terms. (Fee: \$45)

EMTC-2130 Writing for Electronic Media-Fa 3 hours

Covers the form and style of writing for radio, television, and interactive media. Work in the course includes news writing, public service announcements, promotional announcements, advertisements, video scripting, and writing for the web. EMTC-2310 Introduction to Photography-Sp 2 hours

Acquaints students with basic principles of photography (light, exposure, composition, and darkroom skills) through lecture, laboratory sessions, and photographic assignments. (Fee: \$45) EMTC-2320 3 hours

Pre-production and Planning for Video and Film-Fa

This course examines the framework for preparation for video and film production in fiction and nonfiction programming. The duties of the producer and director are covered as they relate to scripting, budgets, legalities, scheduling, site surveys and other related preproduction duties for studio and field productions. (Fee \$30)

EMTC-2601

Course Descriptions

Interactive Interface Design with Flash-Fa

Development of interactive interfaces for websites, interactive CDs and interactive television using industry-standard Flash software. Open to all students. For interactive media students who do not have a background in Flash, the course will provide them with some directed help in preparing for EMTC-3061 Proficiency in Flash. Crosslisted as GDES. May not be counted as major hours for electronic media majors. (Fee: \$35)

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) 3 hours

EMTC-2610 Preproduction Planning-Fa

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. 0 hours

EMTC-3061 Proficiency in Flash-Fa, Sp

The student will demonstrate the ability to create Flash animations and interactive programs. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10) EMTC-3062 Proficiency in Director-Fa, Sp 0 hours

The student will demonstrate the ability to create interactive media products using Director. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10)

EMTC-3065 Proficiency in Maya-Fa, Sp 0 hours The student will demonstrate the ability to create 3D models and animations in Maya. A list of resources is available from the interactive media faculty to help the student prepare to pass this proficiency requirement. (Fee: \$10) EMTC-3111 3 hours

Survey Research for Electronic Media-Sp

The study of survey research methodologies used in electronic media, including audience analysis; program and screen design testing; station and website ratings. Includes an introduction to academic research in electronic communication 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

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 status. EMTC-3151 2 hours

Christian Approaches to Electronic Media-Sp

Builds upon theistic critiques of the connections between society and technology to develop an understanding of how Christians approach the electronic media, both as consumers and practitioners.

EMTC-3210 Advanced Audio Production-Fa, Sp 3 hours

This class is designed to teach the theories, principles, and practices of multi-track studio production. Emphasis will be given to the use of digital recording technologies and their usage related to other media. (Fee: \$45)

EMTC-3310 Advanced Video Production-Fa

3 hours

Taught from the producer's perspective. Hands-on training dealing with all the variables of making a video production, including pre-production, production, and post-production, and including linear and non-linear editing techniques. Prerequisite: EMTC-2110 Video Technical Training. (Fee: \$45)

2 hours

3 hours

2 hours

EMTC-3330 Screenwriting-Fa

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

2 hours

An overview of the origins, development, and current trends in the production of documentary films. Emphasis is given to the viewing and analysis of selected documentary programs. (Fee: \$25) (even years)

EMTC-3360 Documentary Film-Style Prod. I-Fa 3 hours Study of the framework for non-fiction film-style production. Emphasis on theory, pre-production planning, funding, writing, and interviewing unique to documentary programming. Will select a topic and complete a finished treatment, which will be the basis for the actual program produced in Documentary Film-style Production II. Prerequisites: EMTC-2110 Video Technical Training; and EMTC-3310 Advanced Video Production.

EMTC-3370 Documentary Film-Style Prod. II-Sp 3 hours

Further study of the framework for non-fiction film-style production. Emphasis is placed on cinematography, interviewing, paper editing, directing, post-production, and distribution unique to documentary programming. Students will take the treatment completed in Documentary Film-style Production I and produce a final program. Prerequisite: EMTC-1110 Introduction to Electronic Media; EMTC-2110 Video Technical Training; EMTC-3360 Documentary Film-style Production I.

EMTC-3410 Electronic Media Sales-Fa 3 hours

Emphasis on conducting a customer needs analysis and developing sales presentations. Sales executives work with the class to develop technique, copywrite, and presentation skills. Prerequisite: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media. (Fee: \$45)

EMTC-3420 Electronic Media Management-Sp 3 hours

This class is designed to acquaint the student with the concerns facing the management of a media company including legal requirements of the FCC, personnel management, implementation of programming, and station acquisition. Prerequisite: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media.

EMTC-3610 Visual Design for Electronic Media-Sp 3 hours This course applies the theory and principles of visual communication to screen design for interactive media. Emphasis is placed on designing for both NTSC and wide-screen HDTV

aspect ratios. Prerequisites: ART-1100 Introduction to Art or COM-3220 Visual Communication; EMTC-1110 Introduction to Electronic Media. (Fee: \$35)

EMTC-3630 Principles of Computer Animation-Sp 3 hours

Application of the principles of traditional cell-based animation to computer animation, as well as the effective use of animation for communication. Prerequisite: EMTC-3065 Proficiency in Maya. (Fee: \$35)

EMTC-3640 Issues in Mobile Electronic Media-Sp 3 hours

Examines a variety of issues associated with portable communication devices such as personal digital assistants and web-capable cell phones. Topics covered include applications of traditional media theories to wireless communication, diffusion, regulation of wireless technology, e-commerce, and industrial and sociological implications of media mobility. Prerequisite: junior or senior status. (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) 1 hour

EMTC-3732 Directing Practicum-Fa, Sp

Production on a video crew in large auditorium production as assigned by the instructor. The course is repeatable for a total of three hours. Prerequisites: EMTC-2110 Video Technical Training; junior or senior status; permission of instructor.

EMTC-3733 Sports Production Practicum-Fa, Sp 1 hour

Production on a video crew in sports production as assigned by the instructor. The course is repeatable for a total of six hours. Prerequisites: EMTC-2110 Video Technical Training; junior or senior status; permission of instructor. (Fee: \$25)

EMTC-3741 Sales and Management Practicum–Fa, Sp 1 hour The practicum is designed to place the student in a variety of professional settings on and off campus, with the purpose of allowing the student to observe and practice sales and management skills acquired in earlier classes. The course is repeatable for a total of three hours. Prerequisites: EMTC-3410 Electronic Media Sales; EMTC-3420 Electronic Media Management; junior or senior status; permission of the instructor. EMTC-3761 Interactive Media Practicum-Fa, Sp 1 hour

The student will develop an interactive medium product, such as a 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: EMTC-3630 Principles of Computer Animation; permission of faculty mentor. (Fee: \$25)

EMTC-4110 Electronic Media Law and Regulation-Fa 3 hours A study of the legal protections and requirements placed upon the electronic media. Emphasis is placed upon court decisions that help to define First Amendment freedoms for those in the media, as well as regulations placed upon the electronic media. EMTC-4155 Image and Word in a Visual Culture-Sp 3 hours

An inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. Crosslisted as HON-4155. EMTC-4310 Film-Style Production-Sp 2 hours

An advanced production class taught from a film-maker's perspective, with a direct emphasis on single camera technique and non-linear editing. Prerequisite: EMTC-3310 Advanced Video Production. (Fee: \$25)

EMTC-4610 Media Convergence-Sp

Examines the ways in which traditional electronic mass media and interactive media are converging. Students will engage in research to investigate the historical trends toward convergence, models for convergence, and economic, programming, and regulatory implications of converging media.

EMTC-4700 Special Topics in Electronic Media-Fa, Sp 3 hours

Available to advanced students who desire intense study in special areas of electronic media. Prerequisites: junior or senior status as an electronic media major; permission of the faculty mentor.

EMTC-4710 Independent Study: Electronic Media 1-3 hours

Taken to allow the student to study an area beyond what is provided through regular course offerings. The student must make a proposal of what is to be studied for the term when applying to a faculty mentor. The student will then follow a schedule approved by the faculty mentor for studying the topic and submitting a report. Repeatable to a total of 6 credit hours in the field. Prerequisite: approval of proposal by faculty mentor. EMTC-4810 Senior Seminar-Fa, Sp 1 hour

A transition to the professional world. Includes development of resumes, resume tapes, and portfolios; interviewing skills; and business etiquette. Students enrolled in Senior Seminar must take the Tek.Xam, a national, standardized assessment tool that measures technology applications and problem-solving skills within the technology environment. The cost for Tek.Xam is covered by the course fee. Capstone course. Prerequisite: senior status as electronic media major. (Fee: \$50)

EMTC-4920 Senior Project

3 hours

The student selects one of two options: 1) a paper reporting on the student's original research that investigated a topic in electronic media or 2) a media production. A proposal detailing the student's plan for the senior project must be submitted and approved by the faculty mentor prior to registration for the class. Capstone course. Prerequisites: EMTC-3111 Survey Research for Electronic Media or EMTC-3112 Content Research for Electronic Media; GPA of 3.0 in major classes; senior status; permission of EMTC faculty. (Fee: \$35)

EMTC-4930 Electronic Media Internship

3-12 hours

Students are placed with media companies to gain experience in actual career situations. The work must be done under the supervision of an employee of the company approved by the faculty mentor. Students should discuss this option with their advisors at least one semester prior to the internship. Internship agreements must be signed by the student, job supervisor, and faculty mentor prior to registration for the experience. Internships depend upon availability and approval by the electronic media faculty. Capstone course. Prerequisites: GPA of 3.0 in major classes; senior status; approval by the electronic media faculty.

English (ENG)

3 hours

ENG-1000 Basic English-Fa 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-2070 Fundamentals of English Grammar-Fa, Sp 3 hours This course is a foundational course for preservice language arts educators and is a prerequisite for Advanced Grammar. It covers forms and functions of words, pronoun/antecedent agreement, subject/verb agreement, and pedagogy.

ENG-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 on developing journalistic writing skills. Prerequisite: ENG- 1400

ENG-2230 Advanced Composition-Fa, Sp 3 hours An advanced treatment of the composing process, particularly related to the planning, drafting, revision, and final composition of essays. Writing workshops and peer evaluations are included. Prerequisite: ENG-1400 Composition.

ENG-3010 Style and Mechanics for Writers-Fa, Sp, Su 3 hours Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with TPC-3010 Style and Mechanics for Writers) Prerequisite: ENG-1400 Composition.

ENG-3020 Creative Writing: Short Forms-Su 3 hours Intensive summer study in the writing of specific and various

short forms in creative writing (selected by instructor); utilizing a "workshop" approach, with a focus on the completion of a final portfolio. Topics may include, but are not limited to, flash-fiction, the prose poem, and the creative nonfiction short. Prerequisite: ENG-2230 Advanced Composition.

ENG-3030 Creative Writing: Fiction-Sp

3 hours Workshop approach to studying, creating, and responding to short stories. Course focuses on the elements of the modern short story from Chekhov forward. Emphasis is on traditional literary fiction; the course does not cover science fiction, fantasy, adolescent fiction, or children's literature. Prerequisite: ENG-1400 Composition; ENG-2230 Advanced Composition.

ENG-3040 Creative Writing: Poetry-Sp 3 hours Provides guided practice, instruction in craft, constructive criticism, and a supportive atmosphere. Students should leave the

course with more confidence about how to read and write poetry, as well as knowledge of the tradition, issues, and forms of poetry. Prerequisite: ENG-1400 Composition; ENG-2230 Advanced Composition.

ENG-3050 Creative Writing: Nonfiction-Sp

3 hours Intensive study in writing literary nonfiction. Course focuses on sub-genres in contemporary nonfiction: the personal essay, autobiography/the memoir, the short, reportage. Workshop and conference approach. Prerequisite: ENG-1400 Composition; ENG-2230 Advanced 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. 3 hours

ENG-3070

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. Prerequisite for Adolescent and Young Adult Language Arts majors only: ENG-2070 Fundamentals of English Grammar.

ENG-3220 Advanced Journalism-Sp

2 hours

3 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

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)

Composition.

ENG-3550 Writing Center Theory and Training-Sp 2 hours

Designed to orient students to writing center theory and practice. Will train students for employment opportunities in the writing center. Prerequisite: ENG-1400 Composition; permission of instructor.

ENG-3620 Practicum in Journalism-Fa, Sp 1 hour Experience in the varied tasks of the journalistic enterprise. Prerequisite: ENG-2210 Principles of Journalism.

ENG-4030 Advanced Workshop: Fiction-Fa 2 hours

Course provides an opportunity to do high-level work in fiction writing. Workshop environment will be rigorous and diagnostic, but also supportive. Prerequisite: ENG-3030 Creative Writing: Fiction (odd years)

ENG-4040 Advanced Workshop: Poetry-Sp 2 hours

Course provides an opportunity to do high-level work in poetry. Workshop environment will be rigorous and diagnostic, but also supportive. Prerequisite: ENG-3040 Creative Writing: Poetry (odd vears)

ENG-4050 Advanced Workshop: Nonfiction-Sp 2 hours

Course provides an opportunity to do high-level work in creative nonfiction. Workshop environment will be rigorous and diagnostic, but also supportive. Prerequisite: ENG-3050 Creative Writing: *Nonfiction.* (even years)

ENG-4200 Methods of Teaching Writing-Fa 2 hours

This course will prepare students to teach writing. Course content will include instructional methodology and conferencing and assessment techniques. Prerequisite: EDSE-4100 Principles of Teaching: Adolescent and Young Adult; currently enrolled in student teaching or by permission of instructor.

ENG-4230 Independent Study in English-Fa, Sp 1-3 hours Independent study in a selected field for students with special interests and demonstrated ability. 1 hour

ENG-4345 Creative Writing: Portfolio and Performance-Fa, Sp

Course provides an opportunity to prepare a final collection of creative writing in close consultation with the advising professor. Students will also organize and present a public reading of their work. Prerequisite: any two 4000-level creative writing workshops.

Environmental Science (ENVS)

ENVS-1010 Introduction to Environmental Science-Sp 1 hour

An entry level course for environmental science majors to introduce the environmental curriculum, initiate camaraderie among students and faculty, and provide guidance in vocational planning. One lecture per week; occasional field trips. Prerequisite: permission of instructor.

ENVS-2100

3 hours

Principles of Geographic Information Systems-Fa

An introduction to the use of geographical information systems (GIS). Topics of emphasis are related to the fields in which these systems are used including, biology, environmental chemistry, epidemiology, geography, geology, and economics. Students will analyze geographical data in order to present potential solutions to a variety of situations. Two one-hour lectures and one two-hour lab per week. Prerequisite: GMTH-1030 Precalculus or GMTH-2110 Biostatistics, or permission of instructor. (Fee: \$100)

ENVS-3200 Ecosystem Science-Fa

3 hours

The ecosystem is recognized as the fundamental unit of ecology (as the cell is in cell biology). Emphasis will be placed on determining patterns and identifying the processes connecting the physical environment (climate, soil, and water) and living organisms (microbes, plants, and animals). Three one-hour lectures per week, with occasional field exercises. Prerequisites: BIO-1120 General Zoology; CHEM-1120 General Chemistry II; ENVS-2100 Principles of Geographic Information Systems; GMTH-2110 Introduction to Biostatistics. (Fee: \$50)

ENVS-3600 Environmental Ethics -Sp

3 hours

3 hours

An introductory study of ethical systems that addresses the relationship and responsibility of humankind toward the natural world. Emphasis will be upon the biblical environmental stewardship ethic and its application to contemporary environmental issues. Three lectures per week. Prerequisites: BIO-2600 General Ecology; junior status; permission of instructor.

End-User Information Systems (EUIS) EUIS-1000

Word Processing Concepts and Applications

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

Presentation Graphics Concepts and Applications-Sp

Designed to explain basic concepts of graphics software, give detailed information about the types of graphics that are available and when to use each type, demonstrate how to create each of the major types of graphics, and teach basic design concepts. EUIS-2010 3 hours

Spreadsheet and Database Concepts and Applications-Sp

Designed to identify concepts and terminology used with electronic spreadsheets and to identify tasks that can be accomplished with spreadsheet software. The students will be able to use the computer to create, format, edit, store, retrieve, and print worksheets, graphs, and charts. The course will also introduce the student to database management systems. Fundamentals of database management concepts will be covered using a microcomputer database application package. Topics will include table design, query, maintenance, and reports. Prerequisite: MIS-1510 Software Tools for Business. 2 hours

EUIS-2200 Desktop Publishing

Writing, assembling, and designing publications commonly found in businesses, such as newsletters, brochures, reports, and promotional materials using PageMaker software.

Exercise and Sport Science Education (ESED) ESED-2900 2 hours

Health and Movement Education for the Young Child-Fa, Sp

An investigation of current trends, methods of instruction, and curriculum design in health and physical education for 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.

Earth Science (ESCI)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

ESCI-2310 Introduction to Oceanography-Fa

An introductory survey of the oceans and the processes that occur in and around them. Major topics will include ocean currents, coastlines, plate tectonics, marine sediments, waves, tides, composition of sea water, interaction of the ocean with the atmosphere, marine life forms, and their habitats. A field trip will visit a local aguarium. Lecture three times per week and one laboratory per week. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100) (odd years)

ESCI-2410 General Meteorology-Fa

4 hours

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-Fa

4 hours

An introduction to the structure and composition of the universe. Topics covered will include measurement of celestial objects, structure of the solar system and galaxy, composition and history of the universe. Time will be spent in the discussion of various cosmological models and their implications. 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)

Exercise and Sport Science (ESS)

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) 2 hours

ESS-1550 Athletic Training Essentials-Fa, Sp

Principles of prevention, recognition, management, and rehabilitation of athletic injuries are presented for the student anticipating professional employment as a supervisor of individuals engaged in recreation and sport activities. (Fee: \$35) ESS-2100 Leadership and Ethics in Sport-Fa 3 hours

This course will include the study of principles of biblical leadership and the ethics involved, various laws and theories of leadership, theories of ethics, and how the development of leadership relates to individuals and the domain of sport. ESS-2380 Motor Learning and Development-Sp 3 hours

A study of the stages in motor development and the factors affecting the acquisition of motor skills and learning as it relates to motor skill acquisition. The course provides cognitive and psychomotor knowledge of fundamental locomotor, non-locomotor, and manipulative motor skills.

ESS-3800 Sport Psychology-Fa, Sp 2 hours

Surveys the concepts and issues related to the human psyche in the context of sports and from a biblical perspective. Prerequisite: PYCH-1600 General Psychology, junior status, or permission of instructor.

ESS-3890

Human Anatomy and Physiology for the Physical Educator-Fa

This course is designed to be a study of the structure and function of the human body from a Christian theistic perspective with particular emphasis on applications and understanding for physical educators. Prerequisite: GBIO-1000 Principles of Biology. 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: GBIO-2010 Human Anatomy and Physiology or ESS-3890 Human Anatomy and Physiology for the Physical Educator. ESS-3920 Biomechanics-Fa 2 hours

Application of the facts and principles of basic physics to body movement, sports performance, and teaching of physical education skills. Prerequisite: GMTH-1020 College Algebra. ESS-3940 Structural Kinesiology-Fa 3 hours

Application of physical laws and analysis of human movement with special reference to anatomical principles underlying human movement. Prerequisites: GBIO-2010 Human Anatomy and Physiology or ESS-3890 Human Anatomy and Physiology for the Physical Educator. ESS-4600 2 hours

Research in Athletic Training and Exercise Science-Sp

Designed to develop an appreciation for the importance of and need for quality research in athletic training and/or exercise science. Orientation to methods and procedures utilized, emphasizing basic principles of conducting research, and for interpreting and critically reviewing articles representative of the athletic training/exercise science domains. Capstone course for Athletic Training major. 1-3 hours

ESS-4850

Independent Study in Exercise and Sport Science-Fa, Sp

Independent study in the area of exercise and sport science. Prerequisite: Departmental approval is required. ESS-4900 1 hour each

Physical Education Senior Seminar-Fa, Sp

A study of current issues in physical education and the implications of physical education and sport on society. Students will also study sport law and methods of research and evaluation.

Exercise and Sport Science Elective (ESSE)

ESSE-1350 Foundations of Sport Ministry-Sp 3 hours This introductory course will give an overview of sport ministry. It will explore the breadth of such a ministry as it attempts to establish a Biblical base for sports evangelism. It will also attempt to demonstrate the balance of a spirit-filled life and the impact it

can have in reaching the world with the message of Christ through sports.

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	2 hours
ESSE-2310 Volleyball Officiating	2 hours
ESSE-2320 Track and Field Officiating	2 hours

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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. (Fee: \$40) (even years)

ESSE-2830 Recreational Leadership-Sp

Survey of the recreational aspects of games and activities from a noncompetitive perspective. Small and large group activities are planned, such as new games and challenge initiatives to enhance individual and group development and recognize group process and dynamics. Practical work in planning, implementing, and evaluating recreational programs for all ages in schools, youth group outings, Bible clubs, and camps are provided. (odd years) ESSE-4850 Independent Study in Sport Ministry 1-3 hours

Independent study in the area of Sport Ministry by students pursuing the Sport Ministry minor. Prerequisites: Departmental approval is required.

Exercise Science (EXSC)

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. Prerequisites: Departmental approval and a follow-up report are required. Credit/no credit.

EXSC-3000 Exercise Science Practicum-Fa, Sp 1 hour

This practicum is a minimum of 30 contact hours assisting or instructing in group aerobics, muscle strength conditioning instruction and workout supervision, muscle toning instruction and workout supervision, or personal training. Departmental approval is required. Credit/no credit.

EXSC-3010 Campus Exercise Science Practium-Fa, Sp 1 hour

This practicum is a minimum of 30 contact hours assisting or instructing on-campus experiences such as group aerobics, strength conditioning, workout supervision and personal training. Departmental approval is required. Credit/No Credit. EXSC-3020 1 hour

Community Exercise Science Practicum-Fa, Sp

This practicum is a minimum of 30 contact hours and is intended to provide a hands-on experience in either a sports enhancement facility, hospital cardiac rehabilitation center, or similar facility. Departmental approval is required. Credit/No Credit. EXSC-3180 Legal Issues in the Sport Industry-Sp 3 hours

This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. Prerequisite: Junior status. Crosslisted with SMGT-3180 Legal Issues in the Sport Industry.

EXSC-3860 Basic Exercise Testing-Fa

3 hours

2 hours

2 hours

This course includes guidelines and techniques of evaluation for basic fitness testing with emphasis on aerobic capacity. flexibility, strength, and body composition. Basic concepts of EKG interpretation, including electrode placement, arrhythmia, and electrophysiology, are introduced. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine health fitness instructor certification. Prerequisite: GBIO-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

1-3 hours

This course stresses the scientific foundations of conditioning with specific attention to exercise programming using the components of frequency, duration, intensity, mode, and progression, for apparently healthy individuals. The content is consistent with the skills necessary to prepare students for the American College of Sports Medicine health fitness instructor certification. Prerequisite: EXSC-3860 Basic Exercise Testing. (Fee:\$15)

EXSC-4600 Research in Exercise Science-Sp 3 hours Designed to develop an appreciation for the importance of and need for research in exercise science. Orientation to methods and procedures utilized in exercise science research, emphasizing

basic principles of conducting research using the case study, literature review and typical outcomes measurement. Prerequisite: Junior status or permission of the instructor.

EXSC-4810 3 hours Organization and Administration of Exercise Science-Fa

This course is designed to provide the knowledge and begin to develop the skills and abilities necessary to organize, administer, manage, promote, and deliver quality health/fitness programs effectively, safely, and efficiently, meeting the needs and desires of both the client and the employer. Prerequisites: ESS-1350 Foundations of Exercise and Sport Science; EXSC-2000 Worksite Observation; EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription. (Fee: \$50)

EXSC-4850

Independent Study in Exercise Science-Fa, Sp

Independent study in the area of exercise science by students pursuing the exercise science major. Prerequisite: Departmental approval is required. 3 hours

EXSC-4880

Exercise Testing and Prescription for Special Populations-Fa

This course will prepare exercise science students to do exercise testing and prescriptions for individuals who are either acutely or chronically distinct from the "apparently not at risk" adult population. These include individuals who are children, elderly, or pregnant, as well as those who have acute or chronic illness or disease conditions that might affect the testing protocol or details of the exercise prescription. Prerequisites: ESS-1350 Foundations of Exercise and Sport Science; EXSC-2000 Worksite Observation; EXSC-3860 Basic Exercise Testing; EXSC-3870 Basic Exercise Prescription. (Fee: \$15)

EXSC-4990 Internship in Exercise Science-Fa, Sp 6-12 hours This is an actual work experience in an exercise science setting for a minimum of 300 work hours for 9 credit hours and up to 400 work hours for 12 credit hours with a minimum of 30 work hours per week. Capstone course for Exercise Science major.

Prerequisite: Senior status and departmental approval is required. Credit/no credit (Fee \$35)

Finance (FIN) FIN-1710 Personal Finance-Fa, Sp

3 hours

This course is designed to educate and inform the undergraduate student about personal finance, with the view towards practical application, both currently and upon graduation. The course integrates principles of personal finance with biblical principles. Topics include: biblical stewardship, work, financial planning, budgeting, giving, taxation, use of credit, investments, asset protection, retirement and estate planning. (This course is a general elective course.)

FIN-2730 Church Business Administration-Sp

A study of the principles and procedures of the financial management of the local church organization. (Credit not applicable to meet business elective requirements.) Crosslisted with BEPT-2730.

FIN-3310 Money and Financial Markets-Sp 3 hours

A study of money, banking, and monetary theory, with particular emphasis on international financial markets. Prerequisite: ECON-2340 Macroeconomics or permission of instructor. Crosslisted with ECON-3310.

FIN-3710 Principles of Finance-Fa, Sp 3 hours

A study of the theoretical and practical aspects of financial decision making. Topics include financial statement analysis, financial markets, risk and return, determinants of interest rates, time value of money, valuation of financial assets, cost of capital and capital budgeting, dividends, multi-national financial management, and financial planning and forecasting. Prerequisites: ACCT-2110 Principles of Accounting I; BUS-2120 Statistics II.

FIN-3730 Investments-Sp

3 hours

3 hours

A study of the various types of investments including stocks, bonds, mutual funds, commercial, paper, options, and commodities. Particular emphasis is given to return and risk in developing investment strategies. Prerequisite: FIN-3710 Principles of Finance. (Fee \$50)

FIN-3740 Insurance-Sp

3 hours

An overview of the insurance industry and various insurance products. Insurance is described theoretically and practically as a tool for risk management in the areas of life, health, property, and other insurable categories. Prerequisites: FIN-3710 Principles of Finance or FIN-1710 Personal Finance. 3 hours

FIN-3750 International Finance-Sp

Discussion and analysis of financial management within a global context. Topics include international financial markets, foreign exchange rates and risk, exchange risk management, and other financial management issues relative to the multinational firm. Prerequisite: FIN-3710 Principles of Finance **FIN-3770** 3 hours

Security Analysis and Portfolio Management-Fa

The theory and practice of security analysis techniques and portfolio management objectives. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Prerequisite: FIN-3730 Investments. (Fee: \$50)

FIN-4700 Seminar in Finance-Fa, Sp

1 hour A forum to discuss contemporary topics and issues in finance

and provide guidance in areas of student career interest. Prerequisites: ACCT-3120 Intermediate Financial Accounting II; FIN-3310 Money and Financial Markets; FIN-3710 Principles of Finance: FIN-3730 Investments. 3 hours

FIN-4710

Advanced Security Analysis and Portfolio Management Practicum-Sp

An in-depth application of investment theory and techniques. Students research securities in order to make informed buy/sell recommendations and evaluate security and portfolio performance with a particular emphasis on common stocks. Students manage a funded portfolio. Prerequisite: FIN-3770 Security Analysis and Portfolio Management. Admission to this course is limited and requires instructor approval. (Fee: \$50) 3 hours

FIN-4750 Financial Institution Management-Sp

An integrated and comprehensive analysis of the management of financial institutions considering the unique problems faced by each type of institution. Prerequisite: FIN-3710 Principles of Finance. (Fee: \$20)

FIN-4770 Advanced Financial Management-Fa 3 hours An in-depth analysis of topics of concern to financial managers of modern corporations. Topics include capital budgeting, financial forecasting, working capital management, and valuation of merger and acquisition candidates. Prerequisite: FIN 3710 Principles of Finance.

Forensic Science (FORS) FORS-3400 Forensic Science-Fa

4 hours

1 hour

This course will apply a student's knowledge of chemistry and biology to specific forensic analyses. Topics to be covered will include matching of paint and glass samples, use of GC/ Mass Spectrometry and IR spectroscopy to identify controlled substances, analysis of explosives and fuel residues, DNA typing, fingerprint examination, document examination, and giving of expert testimony. Prerequisites: BIO-2250 Cell Biology; CHEM-2220 Analytical Chemistry II; CHEM-3510 Organic Chemistry I; CRJU-3390 Criminal Evidence. (Fee: \$100)

FORS-4800 Forensic Science Capstone-Sp

Capstone course for the forensic science major. Students will research a specific forensic procedure and give a brief explanation of it. This will be followed by a series of detailed questions from a panel of faculty members, designed to simulate the examination of an expert witness. Students will be graded on their knowledge and professional presentation. Prerequisites: BIO-3710 Biochemistry; CHEM-3520 Organic Chemistry II; FORS-3400 Forensic Science.

French (FREN)

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

FREN-2910, 2920 Intermediate French I and II-Fa4/3 hours/sem

Development of all four language skills through grammar review, composition, conversation and readings in French literature and culture. Prerequisite: FREN-1920 Elementary French II; instructor's approval or placement by exam.

FREN-3910 French Conversation-Fa

3 hours

Designed to increase the student's aural comprehension and oral communication in French. Attention given to pronunciation, vocabulary building, communication strategies, and effective cross-cultural communication. Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.

FREN-3920 Contemporary French Culture-Sp 3 hours

Exploration of beliefs, behaviors, and values of Francophone cultures through a comparative approach that provides a framework for describing France and the French in relation to others and themselves. Prerequisite: FREN-2920 Intermediate French II; instructor's approval or placement by exam.

General Biology (GBIO)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

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3 hours

GBIO-1000 Principles of Biology-Fa, Sp, Su

Emphasizes basic life processes and the principles by which these processes operate at the ecological, organismic, and cellular levels of organization with emphasis on human responsibility toward life at all levels. Three lectures each week and one two-hour, bi-weekly laboratory. (Fee: \$75) GBIO-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: GBIO-1000 Principles of Biology; or CHEM-1000 Principles of Chemistry. (Fee: \$100)

GBIO-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: GBIO-2010 Human Anatomy and Physiology. (Fee: \$100)

GBIO-2720 Bioethics and the Human Experience-Sp 3 hours

An integrative survey of bioethics, emphasizing human personhood, human sexuality and reproduction, end-of-life issues, and biomedical decision making. Prerequisite: GBIO-1000 Principles of Biology.

GBIO-4700 Bioethics Colloquium-Sp 1 hour An integrative bioethics project, including a written paper and oral presentation. Prerequisite: Completion of other elements of Bioethics minor.

Graphic Design (GDES)

GDES-1100 History of Graphic Design-Fa

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) 3 hours

GDES-1220 Digital Image/Photography-Fa

An introduction to digital imaging technology and professional techniques for image editing and photo manipulation. The course will provide opportunities for becoming proficient with the tools and techniques associated with Adobe Photoshop, the industry-standard software for image editing, through classroom discussion, reading, research, and studio assignments. GD majors and minors only. (Fee: \$50)

GDES-1300 Graphic Design for Non-Majors-Fa, Sp 3 hours An introduction to graphic design, emphasizing the

fundamentals of design and typography as applied to the development of effective print and web communication. (Fee: \$50) GDES-2100 Typography-Fa 3 hours

An introduction to the study of typography and its role in the structuring of visual language and its relationship to the discipline of graphic design. The course will examine the history of letterforms, their sources, and their influences and will provide opportunities for learning principles and guidelines for the effective use of type in visual communications for a variety of media and messages. Students will learn to structure intelligent, creative type solutions through classroom discussion, reading, research, and studio assignments, including editorial, promotional, and informational applications of typography. Prerequisites: ART-1230 Design I; GDES-1150 Digital Image/Illustration. GD Majors and minors only. (Fee: \$50)

GDES-2601

3.5 hours

1 hour

Interactive Interface Design with Flash-Fa

Development of interactive interfaces for websites, interactive CDs, and interactive television using industry-standard Flash software. Open to all students. For interactive media students who do not have a background in Flash, the course will provide them with some directed help in preparing for EMTC-3061 Proficiency in Flash. Crosslisted as EMTC. May not be counted as major hours for electronic media majors. (Fee: \$35) GDES-3110 Portfolio-Fa, Sp 1 hour

This course will focus on developing professional presentation materials and communication skills required to present project work to design professionals and prospective employers. Previous project work will be refined along with additional project work necessary to emphasize interest in a particular area of specialization. Students will be required to develop a portfolio along with written communications for documenting their education, experience, and technical skills. Emphasis will also be given to developing verbal skills required for the interview process. GDES-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 on producing concepts for both printed and electronic forms of information design. Prerequisites: GDES-2100 Typography; GDES-1220 Digital Image/ Photography. GD majors and minors only. (Fee: \$50) GDES-3230 Production Design I-Sp 3 hours

An introduction to the technical processes required for the production of graphic design solutions in a variety of media. The course will provide opportunities to gain understanding of guidelines and requirements necessary for producing design documents in both conventional and electronic media. GD majors and minors only. (Fee: \$50)

GDES-3300 Web Design-Su 3 hours Students will learn to design websites, pages, and content while integrating creative visual design, layout, and usable navigation features to effectively guide users to content. Concepts in visual, user-centered design will be explored while students develop practical skills in HTML, CSS, and web-publishing applications such as Macromedia Dreamweaver. Prerequisites: GDES-1150 Digital Image/Illustration, GDES-1220 Digital Image/Photography, GDES-3220 Graphic Design I, or permission of instructor. GDES-4220 Graphic Design II-Fa 3 hours

An in-depth study of visual communication design and its role in creating corporate and brand identity programs. Prerequisites: GDES-1150 Digital Image/Illustration; GDES-1220 Digital Image/ Photography; GDES-3220 Graphic Design I; GDES-3230 Production Design I: or permission of the instructor, GD majors and minors only. (Fee: \$50)

GDES-4230 Production Design II-Sp 3 hours An in-depth study of production methods and practices for application to 2-dimensional and 3-dimensional design concepts. Prerequisites: GDES-1150 Digital Image/Illustration; GDES-1220 Digital Image/Photography; GDES-3220 Graphic Design I; GDES-3230 Production Design I; or permission of the instructor. (Fee: \$50)

Course Descriptions

GDES-4300 Advanced Web Design-Sp

3 hours

3 hours

Students will learn advanced concepts and techniques in web design including visual design, navigation, usability, grid layout, scripting, coding, and other skills necessary to produce professional, visually enhanced media for delivery via the web. Students will use industry standards, including software, to develop websites and digital media that integrate motion, sound, and interactivity to add value and enhance the user experience for web-based advertising, marketing, and other communication needs. Prerequisites: EMTC-2601 Interactive interface Design w/Flash; GDES-1220 Digital Image/Photography or TPC-2000 Production Tools; GDES-3300 Web Design. (Fee: \$25) GDES-4310 Digital Portfolio-Sp 1 hour

This course will focus on developing a professional web-based digital portfolio and resumé that demonstrates your web design knowledge and abilities in addition to your academic and career achievements to prospective employers. Previous project work will be refined along with additional project work necessary to emphasize abilities in a particular area of specialization. Students will be required to develop a web-based digital portfolio and resumé documenting their education, experience, and technical skills. Prerequisites: Previous or concurrent enrollment in GDES-4300 Advanced Web Design and senior status, or permission of instructor.

GDES-4900 Graphic Design Internship-Fa, Sp, Su 2-9 hours The graphic design internship will give the student an

opportunity to gain actual on-the-job experience with professionals in the graphic design industry. This opportunity will allow students to gain insight into the professional practices and approaches to solving communication challenges for a variety of business models and client types. This experience will become a valuable asset in competing for an entry-level position upon graduation.

Geography (GEO)

GEO-3080 History of Russia and the Soviet Union-Fa 3 hours

The course will cover not only Soviet history but also major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS

GEO-3200 History and Politics of Latin America-Fa 3 hours Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

GEO-3210 History and Politics of Asia-Sp

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. Crosslisted as GEO, HIST, INTL, or POLS. (odd years) GEO-3220 History and Politics of the Middle East-Sp 3 hours

Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

GEO-3230 History and Politics of Western Europe-Sp 3 hours This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

GEO-3240 History and Politics of Eastern Europe-Sp 3 hours

This overview course will cover the geography, history, politics, and international relations of Eastern Europe from prehistory to the present. While special attention will be given to the religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years) GEO-3250 3 hours

History and Politics of Central and South Asia-Fa

This overview course will cover geography, history, politics, and international relations of Central and South Asia to the present. While special attention will be given to religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEP, HIST, INTL, or POLS. (odd years) 3 hours

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 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 This course will begin with the landing of the Ark on Ararat, discuss the origins of the Hamitic, Semitic, and the Japethitic peoples of Africa, and trace their histories to the modern day. The problems of slavery, colonialism, socialism, Islam, de-colonization, corruption, poverty, AIDS, tropical diseases, and women's issues. This class should not be taken by freshmen. Crosslisted as GEO, HIST, INTL, or POLS. Prerequisite: permission of instructor. (even years) 1-3 hours

GEO-4440 Special Topics-Geography

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest. GEO-4920 1-3 hours

Independent Study in Geography

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Geology (GEOL)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GEOL-1110 Introduction to Physical Geology-Fa 4 hours

An introductory study of the earth and its geological processes, including various alternative interpretations of earth history. Laboratory exercises will complement the lecture material and will include local field trips. Three weekly lectures and one weekly laboratory experience. This course satisfies the physical science requirement of the general education requirements. (Fee: \$100)

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GEOL-1120 Historical Geology-Sp

The earth's geological history from its beginning to the present. Topics of study include plate tectonics, biological evolution and the meaning of the fossil record, correlation, dating methods, and alternative views of earth history. Required field trips will study local fossils. Three lectures and one laboratory per week. Prerequisites: GEOL-1110 Introduction to Physical Geology. (Fee: \$100)

GEOL-2100 Mineralogy-Fa

4 hours

4 hours

The student will study the occurrence, associations, characteristics, and crystal chemistry of common minerals. Laboratory work will emphasize identification and recognition of minerals. Prerequisite: GEOL-1110 Introduction to Physical Geology; CHEM-1110 General Chemistry I (corequisite). (Fee: \$150)

GEOL-3100 Geomorphology-Fa

4 hours

The student will study the formation, development, and denudation of the earth's surface features as a function of rates, processes, and time. Landform analysis will be completed with topographic maps, aerial photographs, and stereo photographs. Prerequisites: GEOL-1110 Introduction to Physical Geology; GEOL-1120 Historical Geology. (Fee: \$150) (odd years) GEOL-3200 Invertebrate Paleontology-Fa 4 hours

Many aspects of the fossil record will be studied including preservation, variation, and identification of fossils. Uses of invertebrate fossils including biostratigraphy, paleoecology, and biogeography will be discussed. Various evolutionary concepts will be presented, including baraminology. Laboratory experiences will include required field trips and identification and recognition of North American fossil species. Prerequisites: BIO-1110 Introduction to Biology; GEOL-1120 Historical Geology. (Fee: \$150) (odd years)

GEOL-3300 Petrology-Sp

4 hours

Students will study the occurrence and origin of sedimentary, igneous, and metamorphic rocks and learn how to identify them. Required field trip. Prerequisite: GEOL-2100 Mineralogy; CHEM-1120 General Chemistry II (corequisite). (Fee: \$150)

GEOL-3400 Structural Geology-Fa

4 hours

Mechanics of rock deformation and the study of various structures in all types of rocks. Required field trip. Prerequisite: GEOL-3300 Petrology; GEOL-3100 Geomorphology and PHYS-2120 General Physics II (corequisites). (Fee:\$150) 1 hour

GEOL-3600 Readings in Geology-Fa, Sp

Students will read and discuss a current text or series of papers. The purpose is to help the student become more familiar with the geological research and literature. Part of the course requirements may include attending a national or regional GSA conference. Course may be taken up to three times for credit. Prerequisite: GEOL-1120 Historical Geology. (Fee:\$150)

GEOL-3800

3 hours

Philosophy of Science and Research Methods in Geology-Sp By its nature, geological research and its resultant

interpretations are heavily paradigm-driven. This course will examine the scientific method and study the development of various scientific paradigms, especially those within geology. Students will learn productive ways to integrate their faith with science and how to apply that to a research method that arrives at conclusions without compromising data. The merits of various models of earth history will be critiqued. Prerequisite: GEOL-1120 Historical Geology; 16 hours of geology courses and junior status. 4 hours

GEOL-4100 Environmental Geology-Fa

Application of geology to environmental problems such as natural resource extraction, water supply, pollution, waste disposal, landslides, floods, and land use planning. Required field trip. Prequisites: BIO-1110 Introduction to Biology; GEOL-3100 Geomorphology. (Fee:\$150) (even years)

GEOL-4200 Stratigraphy and Sedimentology-Sp 5 hours The student will be introduced to principles of sedimentary

rock correlation and structure. Emphasis will be placed on how to interpret past rates and processes using clues gained from sedimentary rocks. Required field trip(s). Prerequisite: GEOL-1120 Historical Geology; GEOL-3300 Petrology. (Fee: \$150) GEOL-4400 Summer Field Camp-Su 6 hours

Five weeks of geologic mapping and problem solving in structural geology and stratigraphy. Selected course must be approved by the department chair (the course will be sponsored by another institution). The course will typically be taken following the student's junior or senior year. Prerequisites: GEOL-3100 Geomorphology; GEOL-3300 Petrology; GEOL-3400 Structural Geology; and GEOL-4200 Stratigraphy and Sedimentology. GEOL-4800 Senior Project-Fa, Sp 2 hours

A capstone project including geological research, writing, and presentation of results. To be completed during one of the student's last two semesters of coursework. Prerequisite: senior status; GEOL-3800 Philosophy of Science and Research Methods in Geology. (Fee: \$200)

GEOL-4830 Research in Geology-Fa, Sp 2-3 hours Investigation of a geologic research project and its culmination in a scholarly research report (oral and/or written). Submission and approval of a research proposal must precede registration. May be repeated once for credit. Prerequisites: completion of 16 hours in geology; junior status; and permission of instructor. (Fee:\$200) GEOL-4880 Topics in Geology-Fa 1-3 hours

Topics of special geological interest that are not in the existing curriculum are selected by the faculty. The topic should provide a logical extension of the student's academic plan and enhance the student's educational experience. Prerequisite: completion of 16 hours in geology; junior status; and permission of instructor. GEOL-4900 Independent Study in Geology-Fa, Sp 1-3 hours

Supervised independent study of a particular geologic phenomenon. Submission and approval of a research proposal must precede registration. Prerequisite: major in geology; approval of research proposal.

General Mathematics (GMTH)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GMTH-1010 Introduction to Mathematics-Fa, Sp 3 hours

Introduction to mathematical concepts including voting theory, apportionment and fair division, models of population growth, and graph theory. Prerequisite: proficiency in mathematics. 3 hours

GMTH-1020 College Algebra-Fa

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 guadratic 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.

Course Descriptions GMTH-1030 – GSCI-1020

GMTH-1030 Precalculus-Fa, Sp

4 hours

Introduction to the principles of trigonometry and some advanced topics in algebra. Coverage includes, but may not be limited to, exponential, logarithmic, trigonometric, and circular functions, triangle problems, and vectors. This course, in conjunction with GMTH-1020 College Algebra, is designed to help prepare the student for calculus. Prerequisites: proficiency in mathematics; GMTH-1020 College Algebra or equivalent; or permission of instructor.

GMTH-1040 Calculus for Business-Fa, Sp

3 hours Introduction to the concepts of differential and integral calculus for students of business. Numerous applications from these areas will be considered. Does not apply toward major in mathematics. Prerequisite: proficiency in mathematics.

GMTH-2110 Introduction to Biostatistics-Sp 3 hours An introduction to statistical methods that are of particular interest to biologists for experimental design and interpretation. Prerequisites: BIO-1120 General Zoology; BIO-2500 General Botany.

GMTH-3010 Proof and Mathematical Modeling-Sp 3 hours

Proof by contradiction, contrapositive, and induction will be explored along with direct proof in the verification of conjectures and other mathematical propositions. Additionally, the formulation of discrete, statistical, and algebraic mathematical models, along with their use in solving problems, will be studied. Appropriate educational technology, including graphing calculators, spreadsheets, and geometric manipulation software will be used throughout. Does not count toward the B.A. or B.S. majors in mathematics or the B.A. in integrated mathematics education. Prerequisites: EDUC-1800 Principles of Mathematics I; EDUC-2800 Principles of Mathematics II; GMTH-1020 College Algebra; MATH-1710 Calculus I.

GMTH-3100 Theory of Interest-Sp

3 hours

1 hour

Interest: simple and compound. Effective rate of interest. Time value of money; present and future. Cash flow calculations: loans, bonds, and investments. Annuities: due and immediate. Perpetuities. Yield. Amortization and sinking funds. Interest rate risk. Immunization. Financial derivatives. Prerequisites: MATH-1720 Calculus II; corequisite: FIN-3710 Principles of Finance. (even years)

General Music (GMUS)

GMUS-1000 Music Philosophy and Aesthetics-Fa

Philosophical and scriptural foundation for the Christian concepts of musical creativity, musical worship, and stewardship. Understanding the unique teacher-student relationship in music. A first attempt at codifying a coherent, personal, Christian philosophy of music.

GMUS-1030 Recital and Program Attendance-Fa, Sp 0 hours

Music majors and minors must attend a prescribed number of programs and recitals each semester. Majors must enroll each semester. For a music minor, students must enroll for two consecutive semesters.

GMUS-2910

0 hours

Sophomore Review - Multi-Age Music Education -Sp

A requirement for the Music Education major. It is a mid-point review by the entire music faculty to discern and decide the future direction of the candidate. Is he or she ready and competent to continue as a music education major? Criteria will include music core grades, faculty observations, and performance ability. The student will prepare case studies, a private lesson evaluation, and a technology portfolio.

GMUS-4980 Special Topics - General Music-Fa, Sp 1-3 hours Study of selected topics in music.

German (GER)

GER-1810, 1820 Elementary German I and II 4 hours/sem Development of basic skills in reading, writing, speaking, and listening in German, along with an introduction to German culture. GER-2810, 2820 Intermediate German I and II 4/3 hours/sem

Development of all four language skills through grammar review, composition, conversation, and readings in German literature and culture. Prerequisite: GER-1820 Elementary German Il or equivalent.

GER-3800 Directed Readings in German-Sp 1-3 hours

Topic chosen by the student and professor, based upon need and interests. Prerequisite: GER-2820 Intermediate German II or equivalent.

GER-3810 German Conversation-Fa 3 hours Oral practice in German through speeches and oral reports along with a review of pronunciation. Designed to improve both day-to-day communication and academic communication. Prerequisite: GER-2820 Intermediate German or equivalent. GER-3820 Germanic History and Culture-Fa 3 hours

Topic chosen by the student and professor, based upon need and interests. Prerequisite: GER-2820 Intermediate German or equivalent.

GER-3830 Survey of German Literature-Sp 3 hours A survey of German literature from the Middle Ages through the 20th century designed to provide the student with an understanding of the literature and its reflection of the culture. Readings in German and English. Prerequisite: GER-2820 Intermediate German or equivalent.

General Science (GSCI)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

GSCI-1010 Principles of Earth Science-Fa, Sp 3.5 hours A survey of the sciences of geology, oceanography, and meteorology. Major lecture topics include discussion of earth's geological history, minerals, rocks, dating, plate tectonics, glaciers, volcanoes, ocean currents, marine life, waves, the atmosphere, and weather systems. When appropriate, contrasting views of these subjects will be examined. Laboratory experiences include field trips to areas of local geological interest. Lecture three times per week and laboratory on alternate weeks. Satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1020 Principles of Physical Science-Fa, Sp 3.5 hours A survey of the sciences of physics, chemistry, and astronomy. Major lecture topics include motion, force, energy, heat, waves, electricity, optics, quantum effects, periodic table, chemical bonds, chemical reactions, astronomical measurements, and the origin of the universe. Content of this course will be related to social and philosophical issues to emphasize a Christian's responsibility in a technological society. Lecture three times per week and laboratory on alternate weeks. This course satisfies the physical science requirement of the general education requirements. (Fee: \$75)

GSCI-1030 Geology of the National Parks-Su

This course will explore the geology of the national parks and surrounding areas in specific regions of the United States. It is a two-week travel study course that fulfills the three and a half-hour laboratory physical science requirement. Trip locations may vary from year to year. Six or more major areas will be explored on each trip. Students will be expected to complete a photographic atlas with appropriate geological descriptions of each stop. Special emphasis will be placed on how geologic history is interpreted and placed into biblical and conventional frameworks. Students will learn how to make geological observations and take field notes. No previous geological knowledge is required. It is necessary for students to be in good physical shape for occasional hiking in rough terrain and at high altitudes, although requirements can be modified for students unable to do so. Special equipment may be required. Special course fees apply and will vary from year to year. GSCI-2010 Physical Science for Teachers-Fa, Sp 4 hours

Introduction to a selection of core concepts of physics and chemistry for preservice elementary education teachers. Students will develop methods of learning science, with emphasis on inquiry, scientific method, and integrating common everyday objects and experiences with a view toward cultivating the excitement of studying God's creation. Three lectures with one weekly one-hour lab. Does not satisfy the physical science general education requirement. (Fee: \$75)

GSCI-3010 Concepts in Middle School Science-Sp 4 hours This lab course highlights key concepts in middle school science by reviewing and extending concepts from previous science courses with an emphasis on the integration of earth sciences, physical sciences, and life sciences. Concepts addressed include the scientific process, theory of evolution, cell theory, and the concept of disease. Prerequisites: GBIO-1000 Principles of Biology; CHEM-1000 Principles of Chemistry; GSCI-1010 Principles of Earth Science; GSCI-2010 Physical Science for Teachers. (Fee: \$75)

GSCI-3060

4 hours

Environmental Science for Middle School Educators-Sp

Introduction to the study of the dynamic relationships that exist between the earth's organisms and their environment and how man affects these relationships. There will be an emphasis on the intricate design and resilience of God's creation. This course will include laboratory investigations, field trips, group work, review of environmental news, lecture-discussions, videos, small projects, and pertinent ideas for teaching the environment in a middle school setting. Three lectures and one laboratory session per week. This course does not satisfy the general education requirement for biology. Prerequisites: GBIO-1000 Principles of Biology; middle childhood education major; or permission of instructor. (Fee: \$100)

General Social Science (GSS)

GSS-1010 Contemporary Worldviews-Su

2-3 hours

3 hours

An exploration of the assumptions of contemporary approaches to issues in society. Includes the study of naturalism, transcendentalism, theism and post-modernism with an emphasis in the areas of ethics, sociology, political science, history, economics, and law. Prerequisite: completion of the Summit Ministries Leadership Conference for a choice of two or three hours of academic credit.

GSS-1100 Politics and American Culture-Fa, Sp

This course serves as an introductory study of America's constitution and political institutions, with emphases on political participation, political culture, and public policy.

GSS-3630

3.5 hours

Data Analysis and Research Methodology-Fa

This course will train social science students in the use of statistical techniques that range from central tendency through bivariate regression, and it introduces students to the primary issues of research methodology, which includes levels of measurement, sampling, internal and external validity, and reliability. Students must also master the use of one piece of statistical software. Prerequisite: students must have satisfied Cedarville's mathematics proficiency requirement before enrolling in GSS-3630.

GSS-3810,3820

1 hour each Clinical Teaching in the Social Sciences-Fa, Sp

4 hours

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:

- One 30-hour experience for two different semesters. 1.
- A 60-hour experience for one semester. 2.

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.

History (HIST) HIST-1110 United States History I-Fa 3 hours HIST-1120 United States History II-Sp 3 hours

Analysis of the development of the United States from the colonial period to the present. Attention is given to the dominant Christian influences that have tended to mold the philosophy and ideology of our cultural, social, and political development. HIST-2000 Introduction to History-Fa 2 hours

An introduction to the field of history as it pertains to both the academic and the public historian. Emphasis will be given to historical inquiry, source evaluation, analysis and synthesis, research methodology, formal historical writing, and career opportunities. Introduction to History should be taken in the sophomore year. HIS

HIST-2010 H	listory of	Civilizat	tion I–F	а		3 I	nours	
HIST-2020 I	listory of	Civilizat	tion II–	Sp		3 I	nours	

This survey of human history begins at the advent of civilized life in the ancient Near East and continues into the 20th 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** 3 hours

History of Christianity: Pre-Reformation-Sp

Survey of ancient and medieval church history with emphasis given to doctrinal and institutional developments. (even years)

HIST-3040 History of Modern Britain-Fa

3 hours

A survey of the events, major individuals, and ideas of modern Great Britain, including Scotland and Ireland, from the time just prior to the Reformation to the twentieth century. The class will focus on the influence of British ideas on American Culture and religion, the rise of classical liberalism and the free market system, the role of socialism, the age of colonialism, the common law, Reformed theology from Puritanism and Scottish Presbyterianism, and other movements and ideas.

HIST-3050 Renaissance and Reformation Europe–Fa 3 hours

A survey of the period spanning the fourteenth through the seventeenth centuries, focusing on the origins, rise, nature, and waning of the Renaissance, especially humanism, and the origins, development, and influence of the Protestant Reformations and the Roman Catholic Counter-Reformation. A special emphasis will be placed on the continuities and discontinuities between the two movements. (odd years)

HIST-3070

HIST-3120

3 hours

Europe in the 18th and 19th Centuries: Continuity and Change-Sp A survey of the period spanning the mid-seventeenth century through about 1918, including the Enlightenment. The course will include the many political, social, and ideological changes of the eighteenth and nineteenth centuries. (even years)

HIST-3080 History of Russia and the Soviet Union-Fa 3 hours

This course will cover not only Soviet history but also the major events of Russian history up to the Bolshevik Revolution. Soviet history will be studied in detail, with attention given to the development of non-Russian peoples in the empire. The political, economic, social, and foreign policy aspects of Soviet history will all be covered, emphasizing Perestroika and the Soviet collapse. Crosslisted as GEO, HIST, INTL, or POLS. 3 hours

HIST-3110 Early American History-Fa

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.

3 hours

3 hours

3 hours

History of Recent and Contemporary America-Fa

Intensive study of the domestic and foreign policies of the United States since 1945. Particular emphasis is given to American society in the 1950's, the Cold War, the Civil Rights Movement, the cultural revolution of the 1960's, American involvement in Vietnam, the Welfare State, Watergate, and the Reagan Revolution. Prerequisite: HIST-1120 United States History or permission of instructor.

HIST-3130 Civil War and Reconstruction-Sp

Study of the sectional crisis, the military and nonmilitary aspects of the Civil War, and the social and political phases of Reconstruction. Prerequisite: HIST-1110, 1120 United States History. (odd years)

HIST-3200 History and Politics of Latin America–Fa 3 hours

Analysis of the major historical, political, geographical, social, and diplomatic developments that have shaped contemporary Latin America. May be credited to geography, history, international studies, or political science. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3210 History and Politics of Asia-Fa

Study of the historical, political, geographical, social, and diplomatic developments of Asia from the 18th century to the present. May be credited to geography, history, international studies, or political science. Crosslised as GEO, HIST, INTL, or POLS. (odd years)

HIST-3220 History and Politics of the Middle East-Sp 3 hours Analysis of the major historical, political, geographical, and social forces, such as religion and nationalism, that have shaped the contemporary Middle Eastern states. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3230 History and Politics of Western Europe-Sp 3 hours

This course will cover the development of Western European history and politics from approximately the year 1900 to the present. Concentration will be on the great European powers, but will include the smaller states. The political, economic, and social histories of the nations of Europe will be covered, as well as several macro-European issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd vears)

HIST-3240 History and Politics of Eastern Europe-Sp 3 hours

This overview course will cover the geography, history, politics, and international relations of Eastern Europe from prehistory to the present. While special attention will be given to the religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (even years) HIST-3250 3 hours

History and Politics of Central and South Asia-Fa

This overview course will cover geography, history, politics, and international relations of Central and South Asia to the present. While special attention will be given to religious and ethnic conflict, the course will also cover the region's social histories, economic, gender, and class issues. Crosslisted as GEO, HIST, INTL, or POLS. (odd years)

HIST-3540 History and Politics of Africa-Sp

3 hours

3 hours

This course will begin with the landing of the Ark on Ararat, discuss the origins of the Hamitic, Semitic, and the Japethitic peoples of Africa, and trace their histories to the modern day. Special emphasis will be given to the problems of slavery, colonialism, socialisam, Islam, de-colonization, corruption, poverty, AIDS, tropical diseases, and women's issues. This class should not be taken by freshmen. Crosslisted as GEO, HIST, INTL, or POLS. (even years)

HIST-3710 3 hours History of Political Thought I: Ancient Through Medieval-Fa

Study of the development of political thought in the ancient and early medieval era with special attention given to the works of Plato and Aristotle. Course may also explore topics in political philosophy. Crosslisted as HIST or POLS. Prerequisite: major or minor in history or political science or permission of instructor. **HIST-3720** 3 hours

History of Political Thought II: Modern and Contemporary–Sp

Study of the development of political thought in the late medieval era and modern era with special attention given to the works of Thomas Hobbes and Friedrich Nietzsche. Course may also explore topics in political philosophy.. Crosslisted as HIST or POLS. Prerequisite: major or minor in history or political science or permission of instructor.

HIST-3730 American Political Thought-Fa, Sp 3 hours Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American Founders and the rise of political liberalism in the thought of Woodrow Wilson. Crosslisted as POLS or HIST. (even years) 3 hours

HIST-3750 Social Movements-Fa, Sp Study of the influence of ideas and institutions upon social movements in America. Crosslisted as HIST or SOC.

HIST-4050

Issues in International Diplomacy-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. Crosslisted as HIST, INTL, or POLS. Prerequisite: POLS/INTL-3650 International Relations or permission of instructor.

HIST-4110 Interpretations in American History-Fa 3 hours Study of selected historical problems in America. Emphasis placed on new interpretations and their impact.

HIST-4300 Great Books in History and Politics-Sp 3 hours

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD, or HIST. Prerequisite: GSS-1100 Politics and American Culture (odd vears)

HIST-4440 Special Topics-History	1-3 hours
Investigation of specific topics in Social Science and	History
that have intrinsic worth and engage student interest.	
HIST-4700 Research in American History-Fa, Sp	3 hours

HIST-4710 Research in European History-Sp 3 hours **HIST-4720 Research in Asian History** 3 hours All majors are required to take either HIST-4700, HIST-4710,

or HIST-4720. Each student will prepare a formal monograph. Prerequisite: major or minor in history. (Fee: \$100) HIST-4900 1-3 hours

Independent Study in History

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Music History (HLMU)

2 hours

HLMU-2100 Jazz History: Music of the Multi-Culture-Fa

Survey of jazz as an American art form, as a representative of both Western and non-Western practices, that now make up our American multi-culture, and as the primary vehicle for the realization of improvisation within that multi-culture. Acquaints the student of music with jazz styles and the major figures in jazz history and assists in the discovery of jazz influence upon all other American music, both classical and popular. Prerequisites: THMU-1220 Music Theory II; THMU-1320 Aural Skills II. (even years) HLMU-2310 Introduction to Music Literature-Sp 3 hours

Study of music by genre and chronology. Focuses on art traditions in music. Students become familiar with a wide variety

of music literature and learn to listen analytically. Serves as the introductory music history course for sophomore music majors. HLMU-3310 Music History I-Fa 3 hours

Study of the music of Western civilization traced from its primitive sources and giving special attention to Medieval, Renaissance, and Baroque music as demonstrated through the vocal and instrumental music of composers from each period. HLMU-3320 Music History II-Sp 3 hours

Study of the music of Western civilization traced from the 1580s to the present time.

HLMU-3400 Global Music-Fa

2 hours

A socio-anthropological approach to the study of the world's music. Surveying music of cultures of Africa, the Americas, and Asia as well as European folk music. Music traditions are studied from a perspective that emphasizes music as an integral part of society and culture, helping students discover the influence of culture on music, and the subsequent role of music within the culture. (Fee: \$25) (odd years)

HLMU-4110 Choral Literature-Sp

3 hours

An historical overview of choral music from 1400 to the present. Attention is given to primary genres of choral composition: motet, madrigal, mass, anthem, oratorio, passion, cantata, and orchestral works with choir. This course will serve as an elective for majors in choral music education, church music, vocal performance, and composition. (even years)

HLMU-4990 Independent Study in Music History 1-3 hours Independent and intensive study in a particular area of music history for individual students who demonstrate special interests and abilities. Prerequisites: HLMU-3310, 3320 Music History I, II.

Humanities (HUM)

HUM-1400 Introduction to the Humanities-Fa, Sp 3 hours Historical study of the relationship of music, art, and literature to the dominant cultural, religious, and philosophical trends and their relationship to Christian theism. (Fee: \$50)

HUM-2430 Enjoyment of Music-Fa

3 hours

This class is designed to present a study of music by genre and chronology. It will focus on the art traditions in music. Students will become familiar with a wide variety of music literature and will learn to listen analytically. The primary goal will be to bring students as far as possible along the road to being music lovers. (even years)

HUM-4980 Special Topics - Humanities-Fa, Sp 1-3 hours Study of selected topics in humanities.

Honors (HON)

Freshman Humanities Sequence: HON-1010,1020 The Making of the Modern Mind 10 hours HON-1010 The Classical and Medieval Ages 5 hours

Explores those historical, religious, philosophical, and artistic beginnings that have shaped the modern mind or what some are now calling the "postmodern" mind. The story begins, naturally enough, at the beginning, in the mind of God and continues through the development of classical Greek and Roman culture. Concludes with a study of the rise of Christianity and its dominance of Western culture in the Middle Ages. HON-1020 5 hours

Renaissance, Reformation, and Revolutions

Explores the changing balance of power in Western culture: from church to state, from faith to reason, from religion to science, and from piety to humanism. Traces out the implications of these shifts for cultural expressions and revolutions in the arts, religion, science, and philosophy and culminates in a study of late twentieth century postmodernism.

Honors Seminars

(Seminar offerings vary from year to year.)

HON-3040 Gender, Politics, and Communication 2 hours Study of the places in which American women have found themselves since 1860, the expectations made upon them, and the influences they have had upon American society.

HON-3050 Communication in the Information Age 2 hours Survey of the "new media" in electronic communication with an emphasis on the structures of the new media, their use in such areas as politics, education, business, and health care, the resulting changes in communication patterns in society, and the social and ethical issues raised by their use. 2 hours

HON-3060 Leadership

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. 2 hours

HON-3080 Creativity: The Birth of a Notion

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.

Course Descriptions HON-3100 – INTL-4050

HON-3100 Two Philosophies of Teaching and Learning

2 hours HON-3240

2 hours

1 hour

1 hour

Science and Religion: Middle Ages to Darwin-Sp

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-3120 2 hours

Reading and Writing the Literature of the Natural Environment -Fa. Sp

A study in both the reading of and the writing of the literature surrounding "environmentalism." The course will combine a "workshop" approach to writing and an active engagement with both the history of "environmental writing" and current state of many environmental issues.

HON-3130

2 hours

Perspectives on Friendship, Love, and Romance Explores friendship, love, and romance from historical,

theological, and philosophical perspectives. HON-3140

2 hours Body and Soul: Foundations for Human Personhood-Sp

An interdisciplinary study of human valuing, from the perspectives of theology, philosophy, psychology, biology, and neuroscience. The course will analyze and contrast various secular and Christian theories to arrive at a Christian anthropology, with applications to contemporary issues in bioethics. Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions. **HON-3180 Aesthetics**

2 hours

Introduction to the study of aesthetics through an exploration of classical writings and the accounts of contemporary theorists, critics, and artists.

HON-3190 Postmodernism

2 hours

An interdisciplinary analysis, critique, and response to postmodernism as it is reflected in contemporary culture.

HON-3200 Romanticism and Its Offspring

2 hours Study of the development of poetry and music from 1800 to the present postmodern pop culture. 2 hours

HON-3210 Contemporary Global Issues-Sp

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. Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.

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)

A seminar centering on major primary sources in the history of science, exploring the historical relationship of science and religion, particularly Christian theology, from the late Middle Ages to the Darwinian Revolution. Prerequisite: HON-1010 The Classical and Medieval Ages; HON-1020 Renaissance, Reformation, and Revolutions.

HON-4155 Image and Word in a Visual Culture-Sp 3 hours

Inquiry into the tension between image and word in Jewish and Christian thought and the implications for Christians living in a visual culture. Traces this tension through the art of Judaism and the Medieval church, the iconoclastic controversies of early Byzantium and the English Civil Wars, and recent and contemporary religious thinkers. Crosslisted as EMTC-4155.

HON-4910 Honors Senior Colloquium I

Development of a generic understanding of the integration of faith, learning, and life.

HON-4920 Honors Senior Colloquium II

Development of a disciplinary understanding of the integration of faith, learning, and life.

HON-4950 Honors Senior Project 1-2 hours

The writing of an interdisciplinary research project.

International Studies (INTL)

INTL-3080 History of Russia and the Soviet Union-Fa 3 hours See course description for GEO-3080 History of Russia and the Soviet Union.

INTL-3190 Global Issues-Sp

3 hours

Analysis of the international issues that are shaping our contemporary and future world, ranging from terrorism, the environment, international crime, disease, and collapsing states to the digital revolution and the global economy.

INTL-3200 History and Politics of Latin America–Fa 3 hours See course description for GEO-3200 History and Politics of Latin America. (even years)

INTL-3210 History and Politics of Asia-Fa 3 hours

See course description for GEO-3210 History and Politics of Asia. (odd years)

INTL-3220 History and Politics of the Middle East-Sp 3 hours See course description for GEO-3220 History and Politics of the Middle East. (even years)

INTL-3230 History and Politics of Western Europe-Sp 3 hours See course desription for GEO-3230 History and Politics of Western Europe. (odd years)

INTL-3240 History and Politics of Eastern Europe-Sp 3 hours See course description for GEO-3240 History and Politics of Eastern Europe. (even years)

INTL-3250

3 hours History and Politics of Central and South Asia-Fa

See course description for GEO-3250 History and Politics of Central and South Asia. (odd years)

INTL-3540 History and Politics of Africa-Sp 3 hours See course description for GEO-3540 History and Politics of Africa. (even years)

INTL-3650 International Relations-Fa

3 hours

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

INTL-4050

Issues in International Diplomacy-Sp See course description for HIST-4050 Issues in International

Diplomacy. Crosslisted as HIST or POLS

3 hours

3 hours

INTL-4160 International and Domestic Terrorism-Sp 3 hours

In-depth study of terrorism, focusing worldwide and domestically. An intensive examination of ongoing international conflicts, narco-terrorism, eco-terrorism, cyber-terrorism, weapons of mass destruction, geographical trouble spots, enemies of the United States, terrorism-counter-terrorism theory and options, terrorism history, law, civil liberties, and Homeland Security. Crosslisted as CRJU and INTL.

INTL-4300 Great Books in History and Politics-Sp 3 hours

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD or HIST. Prerequisite: GSS-1100 Politics and American Culture (odd vears)

INTL-4440 Special Topics-International Studies 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

INTL-4800 Seminar in International Studies-Fa

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

INTL-4850 Research in International Studies-Sp 3 hours

Students will prepare and present a formal research project on a country, region, or significant international issue. INTL-4980 1-3 hours

Independent Study in International Studies

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Journalism (JOUR)

JOUR-1000 Intro to Media Writing-Fa, Sp This intensive writing course prepares students to write news copy for a variety of media. Students learn basic journalistic

practices and writing formats. Priority given to majors.

JOUR-2000 Intro to Reporting-Fa, Sp

3 hours

3 hours

3 hours

This class is designed to develop and enhance the primary journalistic skills presented in JOUR-1000. The objective for this class is to provide opportunity for students to polish their writing skills. Each student will have the opportunity to expand their abilities as a writer, to write more sophisticated stories, and to receive greater feedback on their reporting style and content. Prerequisites: JOUR-1000 Intro to Media Writing. 3 hours

JOUR-2500 Intro to Public Relations-Sp This course acquaints students with the foundations of public relations as a profession. The class includes discussion of key individuals and events in its development. It provides an overview of the theoretical aspects of public relations practices and

techniques. The media relationship of public relations practitioners to the mass media is examined. Codes of ethics for practitioners are also explored. Prerequisites: JOUR-2000 Intro to Reporting.

JOUR-3100 Media Law-Sp

Examines the rights and responsibilities of journalists in American society. It explores and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Prerequisite: junior or senior status. 2 hours

JOUR-3150 Media Ethics-Fa

This class examines the rights and responsibilities of the journalist in American society. It examines and applies federal and state laws and regulations associated with the media. Topic areas will include the journalist and the first amendment, access to government information, libel, and privacy. Special attention will be given to legal issues related to new media. Prerequisite: junior or senior status.

JOUR-3250 Digital Studies and Media-Fa

This course focuses on the past, present, and future of digital media. It will examine the connections between new technology, traditional media content; economics; social, political, and individual influences; and communication theory. In addition, specific information and telecommunications technologies that play a significant role shaping the modern society will be examined. These include the Internet, broadband communication systems, cellular telephony, wireless networking, digital, cable, and satellite TV. 3 hours

JOUR-3310

Advanced Newswriting and Reporting for Broadcasting -Fa. Sp

Building on basics of newswriting, this class provides the opportunity to focus on reporting and writing techniques unique for broadcast media. Includes advanced skills in the organization and presentation of news stories. It provides in-depth broadcasting techniques in reporting and interviewing, as well as the use of computer-assisted reporting. Prerequisite: JOUR-2000 Introduction to Reporting. 3 hours

JOUR-3320

Advanced Newswriting and Reporting for Print-Fa

This class will provide students with the opportunity to develop in-depth newswriting skills for print media. Changing concepts of news will be discussed and appropriate writing methods for traditional and new media outlets will be presented. The student will apply reporting principles to a variety of news contexts including accidents, crime and the courts, sports, business, and local government. The techniques of computer-assisted journalism will also be presented and applied. The ethics of sound reporting will be an important instructional component of the class. The challenges of sound reporting after 9/11 will be discussed. Prerequisite: JOUR-2000 Intro to Reporting. 3 hours

JOUR-3350 Television News Production-Fa

This class provides the basis for broadcast journalism students to understand the components of studio production of television news programs. Instruction focuses on the process and elements needed to produce a televised newscast. Prerequisite: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting.

JOUR-3420 Editing and Design-Sp

3 hours

This course will teach students the methods to edit news stories for publication. In this course, students will learn the role of the editor in the news process and the editorial skills to prepare news stories for publication. The class will also cover the development of appropriate headlines and methods of designing story layout in ways that are clear and appealing to a target audience. Students will be taught to bring both a detailed and holistic approach to the development of the news story for printed media. Current developments in the field of editing and design will be applied to contemporary news events to facilitate application of the principles of the class. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print. **JOUR-3500**

Public Relations Principles and Writing-Fa

3 hours

This course provides instruction in effective public relations communication both within organizations and to various media outlets. Students develop problem-solving approaches to PR challenges and apply appropriate written, visual, and spoken messages to audiences using different media of communication. Prerequisite: JOUR-2500 Introducation to Public Relations. **JOUR-3550** 3 hours

Advanced Public Relations Writing-Sp

Building on the basics of public relations principles and writing, this class provides the opportunity to focus on particular writing techniques employed in specialized public relations contexts. This includes writing for internal publics in the form of reports, proposals, backgrounders, and position papers. In addition, students will learn to write for external publics in print, broadcasting, and online media contexts, developing proficiency in presentational and speech communication, news, feature and advertising copy. Prerequisite: JOUR-3500 Public Relations Principles and Writing. 3 hours

JOUR-3600 Computer-Assisted Reporting-Sp

This course teaches students the basic skills needed to use a computer to collect and analyze data necessary to write news stories. Students will learn how to gather background information, mine databases, analyze public records, study political and demographic trends with information system mapping, and conduct interviews by e-mail. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print.

JOUR-3900 Practicum in Journalism-Fa, Sp

1 hour

Development of news stories for transmission to print, broadcasting and online media outlets within the University (Cedars, In the Loop, Resound Radio, Cedars Online) either individually or as a member of a team under the supervision of a faculty mentor. The practicum is organized in a news agency format with a rotating editorial board. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print. **JOUR-4350** 2 hours

Advanced Television News Production-Fa

Focuses on the studio production of television news programs, anchoring, and meeting broadcast news deadlines. Provides advanced techniques in reporting and field production, including live news reports and investigative reporting. Prerequisite: JOUR-3350 Television News Production.

JOUR-4420 Feature-Writing-Sp

3 hours

Students will learn a variety of different forms of hard and soft feature-writing styles. These will include personality profiles, trend stories, human interest stories, backgrounders, and in-depth stories. Exercises developing a narrative style of writing will be an important component of this class. Prerequisite: JOUR-3320 Advanced Newswriting and Reporting for Print.

JOUR-4500 Public Relation Campaigns-Sp

Uses case studies to examine the role of public relations in organizational communication campaigns. Incorporates a problemsolving approach that enables students to apply various public relations techniques to real-world situations. Prerequisite: JOUR-3550 Advanced Public Relations Writing.

JOUR-4550 Practicum in Public Relations-Fa, Sp 1 hour

Development of public relations campaigns and products, such as brochures, videos, news releases, press kits, and feature stories either individually or as a member of a team under the supervision of a faculty mentor. Prerequisite: JOUR-3550 Advanced Public Relations Writing. 3 hours

JOUR-4600 Magazine Writing-Fa

This course covers the techniques of writing in-depth articles for mass circulation and specialized magazines. Students will learn the process of writing and submitting feature articles as well as analysis of markets for freelance magazine articles. Students will prepare and submit professional quality manuscripts for publication. Prerequisite: JOUR-3320 Advanced Newswriting and Reporting for Print.

JOUR-4610 Photojournalism-Sp

3 hours

2 hours

This class focuses on the techniques and aesthetics of reporting the news as a photojournalist. It emphasizes recognition, development and creation of news photographs and the skills of the photo editor. As part of this class, students will gain experience in shooting, developing, printing, and editing the images for a variety of news media. The class will emphasize how public relations and journalism professionals can use photographs for publication in traditional media, websites, company brochures, and digital slide-show presentations. Prerequisites: COM-3220 Visual Communication; JOUR-3420 Editing and Design. 3 hours

JOUR-4620 Investigative Reporting-Fa

This class provides students with the tools and techniques to conduct contemporary in-depth reporting. The content is aimed at developing professional excellence in serving the public interest by acting as a watchdog on government, business, education, health, environment, safety, and other institutions. Students will develop strategies for gathering and analyzing information, and developing background and through the written assignments gain competence in the different narration techniques used in in-depth newswriting and reporting. Prerequisites: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print.

JOUR-4810 Special Topics in Journalism-Sp 3 hours Available to advanced students who desire in-depth study of special areas of journalism. Topics of current interest in the field of journalism will be offered to cover in-depth areas of specialization. Topics may include photojournalism, sports journalism, international news, news and religion, news media management, magazine, editing, opinion writing, and business and financial reporting. Prequisities: JOUR-3310 Advanced Newswriting and Reporting for Broadcasting; JOUR-3320 Advanced Newswriting and Reporting for Print; or permission of instructor. (odd years) JOUR-4820 Special Topics in Public Relations-Sp 3 hours

Available to advanced students who desire intense study of special areas of public relations. Topics of current interest in the field of public relations will be offered to cover in-depth areas of specialization. Topics may include crisis communication, agency management, event planning, and international public relations. Prerequisites: JOUR-3550 Advanced Public Relations Writing; or permission of instructor. (even years)

Course Descriptions

JOUR-4950 - LING-3610

JOUR-4950 Internship-Fa, Sp

Students are placed with professional organizations to apply their journalism training and gain experience in actual career situations. This should be discussed with an advisor one semester prior to the internship experience. Internship agreements must be signed by the student, the job supervisor, and the faculty mentor prior to the initiation of the internship. Prerequisite: for print major, JOUR-3420 Editing and Design; for broadcasting major, JOUR-3350 Television News Production; for public relations major, JOUR-3550 Advanced Public Relations Writing.

Keyboard Pedagogy (KPMU)

KPMU-2010 Keyboard Pedagogy I-Fa

Study of techniques and literature for the teaching of beginning and intermediate piano students both in private and class settings. Includes study of graded teaching materials and participation in a supervised teaching setting. *Prerequisites: THMU-1210, 1220* Music Theory I, 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 Directed Teaching-Fa, Sp

1 hour each

2 hours

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

Designed to develop critical and creative teaching approaches for students of varying personality and learning styles with application to theory, technique, and music concepts needed by primary and elementary-level piano students in both private and group settings. Prerequisites: KPMU-2010.2020 Keyboard Pedagogy I, II.

KPMU-3160 Keyboard Pedagogy Seminar II-Sp 2 hours Survey of representative Baroque through 20th century literature for the advanced pre-college pianist. The course is enhanced with videos, required readings, and discussion relative to topics such as performance anxiety, technique, and performance style. Prerequisites: KPMU-2010,2020 Keyboard Pedagogy I, 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 advancedlevel piano students in both private and group settings. The course also includes an introduction to business practices for the independent piano teacher.

1 hour

3 hours

Linguistics (LING)

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-3500 2 hours

Methods of Teaching Foreign Language-Fa

Examination of the purposes and objectives along with the methods used in the K-12 foreign language classroom instruction. The student studies the effect of cognitive, affective, and sociocultural variables on second (new) language acquisition. The student is given the opportunity to establish goals and objectives and design curricula that reflect Ohio's grade-level learning outcomes in content areas, as well as to develop strategies that promote language-based English learning for K-12 grade-level students. Open only to TESOL endorsement teacher candidates and TESOL minors. 1 hour

LING-3600 Clinical Teaching of English as a Second Language-Fa, Sp, Su

A practical experience in assisting an ESL classroom teacher in a K-12 ESL program. Under the supervision of a qualified ESL teacher, the student will observe and participate in a formal classroom setting. During this experience, the student will be provided various opportunities to aid the classroom teacher in the development and execution of activities and assessments and to practice teaching on a limited basis. Ongoing during this experience, the student will analyze, evaluate, reflect on, and describe his or her field experience. The student is expected to participate in 30 clock hours. Open only to TESOL endorsement teacher candidates. Prerequisite: LING-3500 Methods of Teaching Foreign Language. Credit/No Credit. 2 hours

LING-3610 Practicum-Fa, Sp, Su

Independent teaching of ESL students under the general supervision of a master teacher. In a K-12 placement under the supervision of a gualified 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 or her field experience. Prerequisite: LING-3500 Methods of Teaching Foreign Language. Credit/No Credit. (Fee: \$45)

Course Descriptions

LING-3710 – LIT-3380

LING-3710

2 hours

3 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-3500 Methods of Teaching Foreign Language. Credit/No Credit. (Fee: \$45)

Literature (LIT)

LIT-2090 Literary Analysis-Fa, Sp

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. Prerequisite: ENG-1400 Composition. 3 hours

LIT-2120 History of Literary Criticism-Sp

A study of the rich philosophic heritage of the West, this course is designed to familiarize students with the writers whose works have 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. Prerequisite: ENG-1400 Composition. LIT-2130 Dramatic Literature-Sp 3 hours

Survey of major dramatic works from Greek to modern day playwrights, emphasizing the relationships among themes and dramatic construction amid various cultural and historical contexts. Can be applied to meet English or communication arts requirements, but not both. Prerequisite: major status or permission of instructor.

LIT-2300 Introduction to Literature-Fa, Sp

3 hours

Emphasis on developing the ability to read critically and analytically representative examples of literary genres through use of appropriate criteria. Prerequisite: ENG-1400 Composition. LIT-2330 Mythology-Fa 3 hours

Study of mythologies, the theories of myth and myth making, and the incorporation of myth in selected literary works. Prerequisite: ENG-1400 Composition.

LIT-2340 Western Literature-Fa, Sp, Su 3 hours Survey of major works of Western literary tradition from Homer to T.S. Eliot. Prerequisite: ENG-1400 Composition.

LIT-2350 Christian Motifs in Film-Sp 3 hours

Study of depictions of Christ and Christ-figures as well as other Christian motifs in film. This course will provide a detailed introduction to the characteristics of the Christ-figure and its most common manifestations in film. The class will focus on viewing and evaluating films containing Christian motifs such as redemption, sacrifice, sin, and faith. This course may not be used to fulfill the general education literature requirement. It may, however, be used to satisfy the general education humanities elective requirement. LIT-2390 3 hours

Survey of American Literature to 1900-Fa, Sp

Study of prominent American authors from colonial times to 1900. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition.

LIT-2430 Survey of British Literature to 1800-Fa, Sp 3 hours

Study of various English authors from the Anglo-Saxons to 1800. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition.

LIT-2440

3 hours

Survey of British Literature from 1800 to Present-Sp

Study of noteworthy English authors from 1800 to the present. Although this course may be taken for general education credit, it is primarily designed for majors. Prerequisite: ENG-1400 Composition.

LIT-3170 American Literature: 1820-1865-Sp

Intensive study of American authors who are representative of the literary traditions of Romanticism and Transcedentalism and their influence on a period of history often called the American Renaissance. Authors may include Emerson, Thoreau, Fuller, Whitman, Dickinson, Douglass, Jacobs, Stowe, Poe, Hawthorne, Melville and others. Prerequisite: LIT-2390 Survey of American Literature to 1900. (even years)

LIT-3180 American Literature: 1865-1914-Sp

3 hours

3 hours

Intensive study of American authors who are representative of the literary traditions of Realism and Naturalism, with attention to their influence on developments in American history between the Civil War and World War I. Authors may include Twain, Howells, James, Wharton, Piatt, Jewett, Freeman, Chesnutt, Crane, London, Dreiser, Norris, Alcott, and others. Prerequisite: LIT-2390 Survey of American Literature to 1900. (odd years) LIT-3200 3 hours

Methods of Teaching Integrated Language Arts-Sp

This course is designed to explore the various methods and materials essential to teaching language arts in the secondary classroom. Prerequisite: EDUC-2000 Introduction to Teaching, currently in EDSE-3100 Principles of Teaching Adolescent and Young Adult, or permission of instructor. 1-3 hours

LIT-3230 Directed Readings-Fa, Sp

Selected readings designed to strengthen the major by providing primary and secondary material in preparation for an independent study of a major writer, literary genre, or literary period.

LIT-3240 Directed Writings-Fa, Sp

Students will work in close consultation with a faculty member on the creation and production of a significant project in one of the following genres: poetry, fiction, creative nonfiction. (Prerequisite: any 3000-level creative writing workshop.)

LIT-3310 The English Novel-Fa

Reading and critical analysis of representative novels written in English. Authors include Fielding, Barnes, Rushdie, Gordimer, and Greene. Prerequisite: LIT-2090 Literary Analysis and LIT-2430 Survey of British Literature to 1800 or LIT-2440 Survey of British

Literature from 1800 to Present; or permission of instructor. (even years)

LIT-3320 Renaissance Literature-Sp

3 hours A study of Metaphysicals, Milton, and other selected Renaissance writers. Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.

LIT-3330 18th Century British Literature-Fa

3 hours Study of British writers from the Restoration through the Age of Johnson. Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of 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: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.

LIT-3350 Shakespeare-Fa

Representative comedies, history plays, tragedies, and sonnets. Prerequisite: LIT-2090 Literary Analysis; LIT-2430 Survey of British Literature to 1800; or permission of instructor.

LIT-3380 Contemporary British Literature–Fa 3 hours Study of representative and significant 20th century British

writers, especially those reflective of modern ideologies. Prerequisite: LIT-2090 Literary Analysis; LIT-2440 Survey of British Literature from 1800 to Present; or permission of instructor.

3 hours

3 hours

1-3 hours

LIT-3400

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 Tolstova, Luisa Valenzuela, Gao Xingjian, and others. Prerequisite: major status or permission of the instructor. (even vears)

LIT-3420 American Novel-Fa

3 hours

3 hours

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: LIT-2090 Literary Analysis; or permission of instructor; or major status. (odd years) LIT-3430 Literature of the American South-Sp 3 hours

Study of the literature of the American South, covering its historical development, its major themes and authors, and its contemporary status. Prerequisites: major status or permission of the instructor. (even years)

LIT-3440 Multiethnic American Literature-Fa 3 hours

A survey of literature produced by writers from diverse ethnic groups, including (but not limited) to Native American, African American, Chicano, Jewish, and Asian American. Prerequisites: LIT-2090 Literary Analysis, LIT-2390 Survey of American Literature to 1900.

LIT-3450 Contemporary Poetry-Fa

This course covers major poetry written by 21st century poets and poetry written in the second half of the 20th century. Prerequisites: ENG-1400 Composition; LIT-2090 Literary Analysis. LIT-3460 Contemporary East Asian Literature-Sp 3 hours

This course introduces students to contemporary literature from East Asia focusing primarily on works in translation from China, Japan, and Korea. Prerequisites: major/minor status or permission of the instructor. (even years)

LIT-3510 Modern American Literature-Sp

3 hours

Study of major American authors of the 20th century. Prerequisite: LIT-2090 Literary Analysis; LIT-2390 Survey of American Literature to 1900; or permission of instructor. LIT-3520 C.S. Lewis and The Inklings-Sp 3 hours

Study of Lewis' contributions in the fields of literature, criticism, and apologetics. Special attention will be placed on understanding Lewis' personal and intellectual development, his relationships with contemporary scholars and writers, and his continuing influence. Prerequisite: major status or permission of instructor. (even years) LIT-3530 Graphic Novel-Fa 3 hours

This course will focus on the emerging literary form of the graphic novel. Students will be introduced to the history and development of sequential art as well as the narrative techniques and conventions used in graphic novels, manga, bandes dessinees. Students will read a broad selection of representative works. Prerequisite: major status or permission of the instructor. (odd vears)

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. 3 hours

LIT-4310 Literary Theory-Fa

A study of theoretical literary contexts. Special consideration will be given to economic, political, psychological, linguistic and cultural contexts. Prerequisite: LIT-2090 Literary Analysis.

LIT-4420 European Novel-Fa

3 hours

Study of the 19th and 20th century influence on the novel from Balzac to Camus. Prerequisite: major status or permission of instructor.

LIT-4450 Milton: Poetry and Selected Prose-Fa 3 hours

A study of Milton's early poetry, Paradise Lost, Paradise Regained, Samson Agonistes, and selected prose works. Prerequisite: LIT-2090 Literary Analysis: LIT-2430 Survey of British Literature to 1800; 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

1 hour

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.

Multi-Age Health Education (MAHE)

MAHE-1000 Introduction to the Health Profession-Fa

Introductory course for students planning career involvement in health and health-related professions. The students will be introduced to health careers by providing descriptions of jobs, the educational and legal requirements, the work environment, and additional information about specific fields.

MAHE-1350 Foundations of Health Education-Sp 2 hours

Orientation to the history, philosophy, and scope of modern health education from a theistic perspective.

MAHE-2100 Personal Health Issues-Fa

3 hours This course will explore various health topics, including but not limited to emotional and mental well being, gerontological health issues, and death and dying. Course content may be revised to reflect changing health needs and priorities. (Even years) 2 hours **MAHE-3030**

Nutrition for Health and 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. 1 hour

MAHE-3070 Current Issues in Health-Sp

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. 3 hours

MAHE-3100 Drug Education-Sp

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, overthe-counter drugs, alcohol, stimulants, opiates, hallucinogens, and steroids.

MAHE-3130 School Health Program-Sp

Analysis of the scope of the school health program, including health services, healthful school living, and health instruction. MAHE-3500 Community Health Concepts-Fa 2 hours

Analysis of current community health problems and how solutions can be achieved in and through existing community health programs.

Course Descriptions

MAHE-4400 Health Education In-Service-Fa, Sp

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. Prerequisite: Departmental approval is required. MAHE-3500 Community Health Concepts. Credit/no credit.

MAHE-4610 Teaching Health-Fa

5 hours

0 hours

This course provides methods of instruction with emphasis on the teacher's role in comprehensive school health education, including an introduction to the health status of youth, at-risk students, objectives for A Healthy People 2010, components of comprehensive school health education, the role of the teacher in school health services, and special health concerns of today's preschool children through post-secondary youth, as well as curriculum development, behavioral objectives, life skills, scope and sequence of learning, teaching strategies, philosophy of wellness, and responsible decision making. Prerequisite: admission to the teacher education program. (Odd years) **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

4 hours

Field Experience in Health Education-Fa, Sp 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)

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) 2 hours

MAPE-2210 Individual and Dual Sports II-Sp

Theory and practice in badminton, racquetball, table tennis, and track and field with attention to various teaching methods, skills, psychomotor skill development, and knowledge in rules, terminology, strategies, safety, and etiquette. (Fee: \$15) **MAPE-3600** 5 hours

Physical Education in the Elementary School-Sp

An overview of the place of physical education in the elementary school curriculum with an emphasis on the study of current program content design, teaching techniques, and types of evaluations, as well as modifying activities for the purpose of inclusion for the physically challenged.

MAPE-4500

3 hours

Curriculum Development in Physical Education-Fa

Overview of the curriculum process in physical education, specifically giving attention to the theoretical base, process of curriculum design, and curriculum development for elementary through high school educational programs.

MAPE-4850

Independent Study in Physical Education-Fa, Sp

Independent study by major students of advanced standing toward the understanding and appreciation of problems in physical education. This course gives students an opportunity to develop skills in the use of literature and in the appropriate techniques of problem solving. Prerequisite: Departmental approval is required. **MAPE-4950** 3 hours

Methods of Teaching Secondary Physical Education-Fa

This course provides the study of methods of instruction and practice and the study of planning and implementing units of instruction, as well as evaluating the effectiveness of various teaching strategies for teaching physical education at the secondary level. Also included is the study of understanding and developing assessment techniques in physical education and developing strategies for working with handicapped students. Prerequisite: admission to the teacher education program. MAPE-4960 Field Experience-Fa 4 hours

A field experience taken in conjunction with MAPE-4950 Methods of Teaching Physical Education. Prerequisite: admission to the teacher education program. Credit/no credit. (Fee: \$35) **MAPE-4970** 2 hours

Field Experience in Physical Education–Special Populations-Fa, Sp

An 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)

Mathematics (MATH)

MATH-1710 Calculus I-Fa, Sp

5 hours

5 hours

First course of a two-course sequence covering basic concepts of analytic geometry and single variable calculus. Includes limits, 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

The second course of a two-course sequence covering the basic concepts of analytic geometry and single variable calculus. Includes sequences, series, expansion of functions into Taylor and power series, conic sections, plane curves, parametric equations, polar coordinates, vectors and geometry in three-space, vectors, and vector calculus. Prerequisite: MATH-1710 Calculus I or equivalent or permission of instructor. **MATH-1990** 3 hours

Beautiful Math Structures and Thinking-Fa

This course introduces freshmen math majors to interesting mathematical ideas and applications beyond the usual scope of standard math courses. Topics include an introduction to propositional logic, function theory, and infinite sets. Other topics will be chosen from elementary number theory, modular arithmetic, error-correcting codes, Fibonacci numbers and the golden ratio, fractals, discrete dynamical systems and chaos, Euler and Hamilton Circuits, democracy and impossibility theorems, game theory, the Platonic solids, n-dimensional space, and other topics up to the discretion of the instructor.

1-3 hours

3 hours

3 hours

3 hours

MATH-2210 Logic and Methods of Proof-Fa

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. Prereguisites: MATH-1720 Calculus II; MATH-1990 Beautiful Math Structures and Thinking; or permission of instructor.

MATH-2510 Discrete Math for Computer Science-Sp 3 hours

An introduction to mathematical foundations of computer science, including propositional and predicate calculus, methods of proof, sets and relations, recurrences, graphs and trees, and program correctness and proofs. This course does not satisfy any requirements for the B.A. or B.S. in mathematics or the B.A. in integrated mathematics education. Prerequisite: MATH-1710 Calculus I.

MATH-2710 Calculus III-Fa, Sp

3 hours

3 hours

Introduction to differential and integral calculus of several variables, multiple integrals, vector analysis, line integrals, and surface integrals. Prerequisite: MATH-1720 Calculus II or equivalent or permission of instructor.

MATH-2740 Differential Equations-Fa, Sp 3 hours Study of the standard techniques employed in the solution of differential equations with emphasis on those arising from physical problems. Prerequisite: MATH-1720 Calculus II or equivalent. 1 hour

MATH-2800 LaTeX for Technical Documents-Sp

In this course students will be introduced to the typesetting language of LaTeX through the use of tutorials, example documents, and homework assignments. They will learn to easily prepare professional-looking theses, conference papers, and journal papers. They will also learn how to create professionallooking presentations, homework, quizzes, examinations, syllabi, resumes, and curriculum vitae.

MATH-3050

4 hours

Algebraic Structures for Secondary Education Majors-Fa An introduction to the basic ideas of number theory, abstract algebra, and linear algebra. Factorization of integers, congruence modulo m, Fermat's Theorem, groups, rings, integral domains, fields, vector spaces, systems of linear equations, determinants and inverses, linear transformations, eigenvalues, and eigenvectors. Does not count towards B.A. or B.S. majors in mathematics. Prerequisites: MATH-2210 Logic and Methods of

Proof; MATH-1720 Calculus II. MATH-3110 Probability and Statistics I-Fa

3 hours Probability models, random variables, probability distributions, estimation, and hypothesis tests are studied from theoretical and practical viewpoints. Prerequisite: MATH-1720 Calculus II. MATH-3240 Introduction to Operations Research-Fa 3 hours

Formulation and analysis of mathematical models for the optimal solution of decision making problems under certainty. Course content includes linear programming; the simplex method, duality and sensitivity analysis. This course applies probabilistic analysis to such nondeterministic models as queueing models, elements of dynamic programming, and Markov decision analysis. Prerequisites: MATH-3610 Linear Algebra; MATH-3110 Probability and Statistics; or permission of the instructor. (even years) MATH-3500 Number Theory-Fa 3 hours

Introduction to most of the topics of elementary number theory such as modular arithmetic, prime factorizations, linear diophantine equations, the Chinese remainder theorem, quadratic reciprocity, Pythagorean triples, number theoretic functions, and related topics. Concrete examples will illustrate the concepts and abstract reasoning will develop the theories considered in the course. Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-3550 Discrete Math: Graph Theory-Fa 3 hours

Introduction to the basic concepts of graph theory and discrete mathematics problem-solving. Topics covered include elements of graph theory, covering circuits, graph coloring, trees and searching, and network algorithms. Prerequisite: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-3560 Discrete Math: Combinatorics-Sp

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

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

Topics in function theory, vector analysis, differential calculus of several variables, vector differential calculus of several variables, integral calculus of several variables, vector integral calculus of several variables, and infinite series. Prerequisite: MATH-2710 Calculus III or equivalent or permission of instructor. (even years) MATH-3740 Complex Variables-Sp 3 hours

Introduction to complex arithmetic, differentiation: analytic functions, Cauchy-Riemann equations, harmonic functions, elementary functions and their mapping properties, integration: Cauchy's Theorem, Cauchy's Integral Formula, Taylor and Laurent series, poles, residues, and the residue theorem. Prerequisite: MATH-1720 Calculus II. (odd years)

MATH-3750 Introduction to Dynamical Systems-Sp 3 hours

Topics include one-dimensional flows and bifurcations, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals. Prerequisite: MATH-2740 Differential Equations. (even years)

MATH-3760 Numerical Analysis-Sp

3 hours Analysis of computational error, solutions of equations of one variable, interpolation, numerical differentiation and integration, finite difference methods for solving ordinary differential equations, solving linear algebraic systems, and least squares approximations. Prerequisite: CS-1210 C++ Programming; MATH-2710 Calculus III; MATH-2740 Differential Equations. (odd years) MATH-3800 Research Methods-Sp 1 hour

This course will introduce the mathematics major to the various resources and methods available for researching topics in mathematics. This could include the use of library resources at Cedarville University, use of Internet resources, WWW searches, and a tour of the library at a larger university, where journals and indices of importance can be referenced. Prerequisites: MATH-2210 Logic and Methods of Proof; ENG-1400 English Composition. (Fee: \$50)

MATH-4110 Probability and Statistics II-Sp 3 hours Second course of a two-course sequence covering basic concepts of statistics. Topics chosen from the following: hypothesis tests, regression analysis, quality control, and non-parametric statistics. Prerequisites: MATH-3110 Probability and Statistics I. MATH-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations. (even years)

MATH-4410

Euclidean and Non-Euclidean Geometry-Sp

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

MATH-4450 Topology-Fa

3 hours

3 hours

An introduction to elementary point set topology with emphasis on illustrating how the familiar concepts of closed and open intervals, continuity of functions, distances, and various geometrical properties have been generalized from classical mathematics. Topics include: metric spaces, topological space theory, separation axioms, covering properties, compactness, connectedness, metrizability, and complete metric spaces. Prerequisite: MATH-2210 Logic and Methods of Proof. (even vears)

MATH-4610, 4620 Abstract Algebra I, II-Fa, Sp 3 hours/sem

Introduction to and development of the basic ideas of algebraic systems, groups, rings, integral domains, fields, and other advanced topics. Prerequisite: MATH-2210 Logic and Methods of Proof. (even years)

MATH-4710, 4720 Real Variables I, II-Fa, Sp 3 hours/sem

Introduction to the real number system's algebraic order, completeness, and cardinality properties, the topology of Cartesian spaces Rn and functions including continuity and uniform continuity, connectedness, convexity, compactness, various types of convergence, limits, differentiability, and Riemann integration, measurability, and Ln. Prerequisites: MATH-2210 Logic and Methods of Proof. (odd years)

MATH-4800

MGMT-3500

3 hours

Capstone Experience in Mathematics-Fa, Sp

The course will allow students to deeply research an important topic in mathematics, both individually and collectively, and to present their findings from library research as well as personal work. Prerequisites: MATH-3800 Research Methods in Mathematics; 15 hours of courses beyond MATH-1720 Calculus II; permission of instructor. (Fee: \$20)

MATH-4880 Topics in Mathematics-Fa, Sp 1-3 hours Some typical topics are linear programming, numerical analysis, stochastic calculus, non-parametric statistics, partial differential equations, or mathematical modeling. This course is intended to be a topic not in the current curriculum that is a logical extension and development of the student's academic plan. Prerequisite: permission of instructor. **MATH-4900**

Independent Study in Mathematics-Fa, Sp

1-3 hours

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.

Management (MGMT)

3 hours

Principles of Organization and Management-Fa, Sp An examination of the policies, principles, practices, and problems involved in the management of organizations as they are currently being applied in the United States and around the world to meet or exceed customer's expectations.

MGMT-3510 Business Model Development-Sp 3 hours

This course will introduce students to small business and entrepreneurship. Topics will include personal characteristics of entrepreneurs, issues involving the uniqueness of family businesses, what small business owners can expect, the difference between a small business and entrepreneurial business, an overview of business models, an introduction to finding and/or evaluating a business opportunity, and the operational basics of starting and running a small or entrepreneurial business. Prerequisites: ACCT-2110 Principles of Accounting I; ECON-2330 Microeconomics

MGMT-3511 Entrepreneurial Strategy-Fa 3 hours This course will focus on looking for, identifying, and evaluating business opportunities, then matching business models to take advantage of them. Content will include creativity, opportunity recognition, evaluation, cognitive processes of entrepreneurs, environmental scanning, entrepreneurial business models (strategy), and will introduce initial financial elements of opportunity evaluation. Preguisities: MGMT-3510 Business Model Development

MGMT-3512 Entrepreneurial Finance-Fa

3 hours

This course will focus on the finance, accounting, and tax issues involved in operating a small business, entrepreneurial high growth firm, or family business. Content will include small business and high growth financial issues, managing cash flow, attracting financial resources, accounting issues such as the role of a forward-thinking accountant, setting up accounting systems that serve the firm strategy, and tax planning. It will also include financial elements of opportunity evaluation and exploitation as well. Prerequisite: MGMT-3510 Business Model Development. MGMT-3513 Entrepreneurship Practicum-Fa, Sp 3-12 hours

This course will be a practicum for SB and E students to gain experience in a small business or entrepreneurial setting that is appropriate for their future goals. These experiences will be in the form of internships, shadowing entrepreneurs, working in a small business or entrepreneurial firm on significant projects or in significant roles, or consulting with these types of firms.

Due to the dynamic nature of opportunities provided by small business people and entrepreneurs, it can be taken, with the permission of the lead professor, at any time during the SB and E program. In addition, since each experience is unique, it can be taken more than once for up to 12 semester hours. Prerequisite: Permission of instructor. 3 hours

MGMT-3520 Production and Operations Management-Fa, Sp

Introduction to the concepts, methodologies, and application of production and operations management. Designed to develop problem-solving and decision-making skills to apply in the operations and production areas of the firm. Designed to develop an appreciation for the interaction of operations management with the management systems of organizations and the processes associated with "lean" thinking necessary to create value for the customer. Prerequisites: ACCT-2120 Principles of Accounting II; BUS-2120 Statistics II; MGMT-3500 Principles of Organization and Management; or permission of instructor. (Fee: \$50)

MGMT-3530 Human Resources Management-Fa, Sp 3 hours An analysis of the principle functions, processes, and problems involved in the management of personnel policies; selection, training, promotion, compensation, and discharge of personnel; labor turnover, safety, health, and recreation. Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.

MGMT-3550 Organizational Behavior-Fa

A study of the impact of human behavior within and upon the organizational structure. Emphasis is given to behavior as it relates to employment, absenteeism, employee turnover, productivity, human performance, and management. Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.

MGMT-3560 Project Management-Sp

3 hours

3 hours

This course will lay a foundation for an understanding of project management principles. It will examine principles, processes, and tools project managers have developed to effectively manage and lead projects. 3 hours

MGMT-3570 International Management-Sp

Focuses on the principles of management in a global economy. Exporting and foreign direct investment are analyzed from the multinational perspective. Strategy, organizational structure, and control techniques are developed in a world environment. Prerequisite: MGMT-3500 Principles of Organization and Management.

MGMT-4510

Administrative Policy and Strategy-Fa, Sp

3 hours

Strategic issues faced by organizations are analyzed in a comprehensive manner. Skills in strategic analysis are developed through lectures and from diverse industries, nonprofit, and quasipublic institutions. Open only to seniors in business administration within 2 semesters of graduation. Capstone course. Prerequisites: FIN-3710 Principles of Finance; MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing.

MGMT-4520 Supply Chain Management-Sp

3 hours

Introduces students to key concepts in supply chain design, planning, and operations. Typical content includes the supply chain strategic environment, designing appropriate networks, forecasting demand and supply, planning and managing inventories, sourcing and transporting products, supply chain coordination, and the impact of technology on supply chain management. Course methodology emphasizes application of concepts through case study, plant tours, and presentations. Prerequisites: BUS-2120 Statistics II; MGMT-3520 Production and Operations Management. (Fee: \$50)

MGMT-4530 Industrial Relations Management-Sp 3 hours

The interplay between market forces and institutional rules that determine the employment relationship. Labor history, the effects of changing public policies, trade unions, and collective bargaining are viewed from various international perspectives. Prerequisites: MGMT-3500 Principles of Organization and Management.

MGMT-4550 Advanced Organizational Behavior-Sp 3 hours

This is an advanced course about managing people and organizations at the dawn of the 21st century, intended for seniors who will soon face the challenge of leadership and influence in their respective workplaces. This course will integrate many of the most salient OB topics in today's volatile workplace environment. Prerequisite: MGMT-3550 Organizational Behavior or permission of instructor.

MGMT-4560

3 hours

Organizational Change and Development-Fa This course focuses on the theories, concepts, processes, and tools of leading successful organizational change, as changes involve sensitivity to issues that arise at the individual, interpersonal, and institutional levels as well as building the organization's capacity to both adapt to change and generate innovation. Prerequisite: MGMT-3500 Principles of Organization and Management or permission of instructor.

MGMT-4570 Advanced Operations Management-Sp 3 hours

This course expands on critical topics in the field of operations management, including the operations management strategy and tools and contemporary topics such as "Lean" techniques, valuestream mapping, and Fundamentals of Six Sigma. Prerequisite: MGMT-3520 Production and Operations Management or permission of instructor. (Fee: \$50)

Army ROTC (MIL)

0 hours

MIL-1000 Leadership Lab I Applied Army ROTC training. Taken concurrently with 1000-level MIL courses.

MIL-1010,1020 Military Science I

2 hours/sem

3 hours/sem

3 hours/sem

Introduction to the history, role, and organization of the Army and ROTC, as well as the U.S. Army Reserve and U.S. Army National Guard, and the available career options. Introduces officership, military customs and traditions, map reading, land navigation, field training, first-aid procedures, and physical fitness training. Familiarize with rank structure, drill and ceremony, military courtesies, weapons, marksmanship, and communications equipment. Discuss styles and fundamentals of leadership and develop leadership skills. 0 hours

MIL-2000 Leadership Lab II

Applied Army ROTC training. Taken concurrently with 2000-level MIL courses.

MIL-2010,2020 Military Science II

2 hours/sem Course of study includes emergency first-aid procedures, field survival practices, physical fitness, orienteering, and small-unit leadership training. Explores the various career management fields within the Army. Students will begin to receive leadership assignments and responsibility within the cadet battalion. Introduction to advanced course of study.

MIL-3000 Leadership Lab III

0 hours Applied Army ROTC training. Taken concurrently with 3000-level MIL courses.

MIL-3010,3020 Military Science III

The junior year of military science is completely dedicated to developing leadership skills and preparing students for the sixweek Advanced Camp in the summer of the junior year. Subjects covered are drill, leadership, marksmanship training, squad and team tactics with leadership exercises and advanced navigation training on day and night courses. Students learn to inspect soldiers' equipment, draft and issue orders, and plan and conduct training as a small-unit leader. Prerequisite: approval of professor of military science. 0 hours

MIL-4000 Leadership Lab IV

Applied Army ROTC training. Taken concurrently with 4000-level MIL courses.

MIL-4010,4020 Military Science IV

The senior year of military science provides senior cadets with advanced managerial leadership skills. Army staff procedures and functions are taught. These staff skills are put into practice through the assignment of seniors to major leadership positions within the cadet battalion. Seniors learn to command, lead, manage, plan, and supervise as they prepare for commissioning as officers in the United States Army. Senior students will receive instruction on military professionalism and ethics. Prerequisite: approval of professor of military science.

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Course Descriptions

MIS-1500 - MRKT-3660

Information Systems (MIS)

MIS-1500

Information Technology for Business-Fa, Sp

This course will focus on understanding the broad nature of information technology and how it fits in today's business world. Students will learn the nature of information technology, its application, and unique business models, as well as how to manage technology from a business value perspective. Fundamentals of the industry, technologies, and application of that technology are developed. Students will experience the IT industry through practical exploration of its breadth and depth.

MIS-1510 Software Tools for Business-Fa, Sp 2 hours This course emphasizes the use of software in a business environment. Students will develop a working knowledge of spreadsheet, database, and other software packages appropriate to the current business environment. (Fee: \$10)

MIS-2200 Fundamentals of MIS-Fa

3 hours

2 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. 3 hours

MIS-2300 Introduction to Programming-Sp

Intended as the first programming course for MIS majors, this

course will introduce the student to the process of programming and to the syntax and usage of the Java programming language. The programming assignments will encourage students to analyze problems in a logical, intentional, and structured manner so that they can develop well constructed programs using structured and object-oriented programming techniques. Prerequisite: MIS-2200 Fundamentals of MIS (Fee: \$20)

MIS-3100 Database Development-Fa

3 hours

This course teaches students database fundamentals while providing a broad survey of the field's major topics. Students learn information systems and the critical nature of databases within IS contexts. Topics include storage and retrieval, data modeling, logical and physical design, relational and objectoriented databases, data warehousing, databases and the internet, and data security. Students apply essentials by creating, exercising, and administrating databases. Prerequisite: MIS-2200 Fundamentals of MIS. (Fee: \$20)

MIS-3300

3 hours

Advanced Topics in Programming Languages-Sp

Advanced concepts in programming and programming languages using one or more programming languages. Theories of program design and implementation. Some discussion of the design of programming languages and the comparison of strengths and weaknesses in performing different types of tasks. Prerequisite: MIS-2300 Introduction to Programming. (Fee: \$20) MIS-3400 Data Communications and Networking–Fa 3 hours

A study of the basic concepts of data and voice communications and current networking technology. Discussion of physical-layer considerations, higher-layer implications, and network operating systems. The concepts will be applied through a hands-on project of network design, implementation, and documentation. Prerequisite: MIS-2200 Fundamentals of MIS or permission of instructor. (Fee: \$50) MIS-3500 Web Development-Sp 3 hours

This course will expose students to the process of developing information systems for the World Wide Web. The focus will be on advanced webpage creation including dynamic content, scripting, applets and server issues. Prerequisites: MIS-2200 Fundamentals of MIS, MIS-2300 Introduction to Programming.

MIS-3800 Systems Analysis and Design-Sp

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. Prereguisite: MIS-3100 Database Development. 3 hours

3 hours

MIS-3910 Advanced Topics in MIS-Fa, Sp

This course heading covers a variety of MIS courses offered on a temporary basis. The dynamic nature of the field of MIS gives rise to the need to address recent changes in technologies, methods, and systems.

MIS 4100 Advanced Database Design-Sp 3 hours This course is a systematic study of the use of databases in dynamically generated webpages in e-commerce systems. The course focuses on the integration of database management systems and other software such as CRM, ERP, and supply chain management systems in the design and development of scalable E-commerce systems. Prerequisites: MIS-3100 Database Development; MIS-3500 Web Development. (Fee: \$20) MIS-4500 System Development-Sp 3 hours

Students hone their skills of analysis, design, and project management as they work in teams to develop IT projects that solve real-world problems proposed by end-users both inside the University and in outside organizations. The projects usually encompass aspects of system analysis, user-interface design, database development, web development, end-user training, documentation, and presentation to customers. Capstone course. Prerequisites: MIS 3500-Web Development; MIS-3800 System Analysis and Design.

Marketing (MRKT)

MRKT-3600 Principles of Marketing-Fa, Sp 3 hours Survey of the marketing function in the business environment; product, price, promotion, and distribution as well as consumers organizations; service, nonprofit, and international markets. Prerequisite: junior status or permission of instructor.

MRKT-3610 Sales/Sales Management Systems-Sp 3 hours

Principles employed in the development, administration, and strategy of a sales force. Professional selling from a Christian perspective along with training, managing, compensating, and motivating a sales force. Prerequisites: MGMT-3500 Principles of Organization and Management; MRKT-3600 Principles of Marketing. 3 hours

MRKT-3630 Marketing Research-Sp

Role of market research in marketing development. Decision making in an atmosphere of uncertainty. Determination of hypotheses. Planning research designs: survey, observational, experimental, and simulation. Execution of survey design: questionnaire construction, sample design, interviewing, tabulation, analysis, interpretation of results, and presentation. Prerequisite: MRKT-3600 Principles of Marketing. MRKT-3650 Buyer Behavior-Sp 3 hours

Introduction to the psychological, sociological, cultural, and economic determinants of consumer behavior. Emphasis on exploration of various concepts and theories for the purpose of building understanding and providing an exposure to a variety of viewpoints. Prerequisite: MRKT-3600 Principles of Marketing. MRKT-3660 Promotion Strategy-Fa 3 hours

Advertising as a tool in marketing management. Decision making relative to market analysis. Media selection, budgeting, production and layout, and measurement of effectiveness. Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.

MRKT-3670 Business to Business Marketing-Fa 3 hours

A study of the industrial market sector, which includes buying behavior, applied demand analysis, and segmentation techniques. Designed to provide the student with decision-making capabilities for use in the industrial setting. Prerequisite: MRKT-3600 Principles of Marketing.

MRKT-3680 Nonprofit Marketing-Fa 3 hours

Designed to acquaint the student with skills, abilities, and attitudes necessary to effectively implement marketing practice in nonprofit organizations. Prerequisite: MRKT-3600 Principles of Marketing or permission of instructor.

MRKT-3690 Services Marketing-Sp 3 hours Designed to act as an introduction to the field of serviceoriented business concerns and their subsequent marketing.

MRKT-4610 Marketing Strategy-Sp 3 hours

Computer simulation will be used to acquaint the senior marketing student in a realistic fashion to a variety of marketing situations and allow "hands-on" solutions to be implemented and tested. Prerequisites: senior status; twelve hours of marketing including MRKT-3600 Principles of Marketing. 3 hours

MRKT-4620 International Marketing-Fa

An intensive investigation of the problems, regulations, and challenges facing US manufacturers seeking to expand their markets to countries abroad. Prerequisite: MRKT-3600 Principles of Marketing.

Mathematics Education (MTED)

1 hour MTED-3110 Clinical Teaching in Mathematics-Fa, Sp

Students are assigned to assist a college instructor in classroom and laboratory teaching, evaluation, and related responsibilities. The student must complete 40 clock hours of clinical involvement in each teaching field for which licensure is desired. Prerequisite: completion of Introduction to Education Block.

MTED-3120 Teaching Mathematics-Fa

3 hours

2 hours

Designed to introduce prospective secondary school science teachers to the curriculum, materials, and methods of classroom teaching. Prerequisite: admission to the teacher education program.

Nursing (NSG)

NSG-1000 Member of Nursing Profession-Fa

An introduction to and application of professional nursing roles within the U.S. and global health care systems. Includes discussion of ways of thinking, professional ethics, Christian values, and factors that motivate and influence Christian nurses. As members of the profession, students are introduced to the use of information management skills, concepts of care, and the culture of the profession from a Biblical and Christian framework. NSG-1050 Health Promotion and Wellness-Sp 4 hours

Theories of health and wellness are explored as foundational concepts of the professional nursing role. Students are introduced to the principles of culture and diversity, development across the lifespan, and multi-dimensional nursing care. The development of a biblical worldview related to health and wholeness is emphasized. (Fee: \$100)

NSG-2000 Nursing Roles in Disease Prevention-Fa 4 hours

Principles of disease prevention are explored as foundational concepts of the professional nursing role, emphasizing safety, communication, hygiene, nutrition, physical activity, rest, and infection control. Focuses on the development of systematic approaches to individual health and physical assessment, and documentation of findings using appropriate terminology. Prerequisite: NSG-1050 Health Promotion and Wellness. (Fee: \$200)

NSG-2050 Nursing Roles in Disease Management-Sp 4 hours

An introduction to the concept of disease management as it is used to provide nursing care to patients across the lifespan. Focus is on the use of a broad range of psychomotor skills required to intervene on behalf of clients with basic imbalances in health. Students begin to develop the professional role of provider of care within the contexts of disease, ethics, diversity, evidence, personal values and critical thinking. Prerequisite: NSG-2000 Nursing Roles in Disease Prevention. (Fee: \$200)

NSG-2060 Clinical Immersion-Su

4 hours

This course provides opportunities for the nursing student to apply knowledge and skills to actual client care in clinical settings under the supervision of nursing faculty. Students will gain confidence in their roles as providers of nursing care and as members of the nursing profession. Prerequisite: NSG-2050 Nursing Roles in Disease Management, and acceptance to progress to junior year clinical courses. 1 hour

NSG-2200 Cross-Cultural Interactions-Fa, Sp

Cross-cultural interactions are planned and purposeful experiences designed to gain information and understanding of missions and/or cross-cultural nursing. Prerequisite: permission of instructor. 6 hours

NSG-3000 Care of Ill Adults-Fa, Sp

Focus is on common physiological imbalances of adults and nursing care required to restore or promote health balances across the five dimensions. Critical thinking, assessment, and communication skills consistent with biblical principles will be utilized to manage information and provide culturally appropriate care. Students will demonstrate competency in technical skills and the professional nursing role within the clinical setting. Prerequisite: Junior nursing major status. (Fee: \$200) NSG-3010 6 hours

Nursing Care of Women and Newborns-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: Junior nursing major progression to clinical courses. (Fee: \$200) 6 hours

NSG-3030 Care of Children-Fa. Sp

Focus is on common physiological imbalances of infants. children, and adolescents and the nursing care required to restore or promote physical, emotional, intellectual, social, and spiritual health. Special emphasis is given to the application of growth and developmental theories in the provision of developmentally appropriate care to the pediatric population. Students gain increasing independence in professional nursing role development as providers and coordinators of care. Prerequisites: junior status; NSG-3010 Nursing Care of Women and Newborns (corequisite). (Fee: \$200)

Course Descriptions

Course Descriptions

NSG-3050 - NSG-4830

NSG-3050 Behavioral and Mental Health Care-Fa, Sp 6 hours

Introduces aspects of developing therapeutic relationships involving one-to-one and group interactions to achieve client-focused and professional goals. Focus is on effective communication as a member of the profession and provider of care. Using a Christian worldview, students analyze frameworks for promoting and restoring healthy relationships. Students participate in integration of care with other members of the interdisciplinary health care team in a variety of settings. Emphasis is on imbalances in thinking, emotions, and behaviors that interfere with individual and group processes and require external intervention to promote balance. Prerequisites: junior nursing major progression to clinical courses; NSG-3000 Care of III Adults (corequisite). (Fee: \$200)

NSG-3110 Pharmacology-Fa

3 hours

Pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of major drug categories are discussed as they are used to restore health balance. Special emphasis is given to the ways in which pharmacological agents may create new health demands. Nursing actions to prevent or minimize these demands ar discussed. Prerequisites: CHEM-1010 Principles of Biochemisty; GBIO-2020 Advanced Clinical Physiology; and

permission of instructor. NSG-3200

1-3 hours

Cross-Cultural Nursing Internship-Fa, Sp, Su

Students actively participate in health-related activities in a facility established to provide care for persons in cultures different from theirs. The length of time involved in the internship may vary according to the student needs. Prerequisites: NSG-3080 Concepts in Medical-Surgical Nursing; permission of instructor. 1-4 hours NSG-3800 Nursing Externship-Su

The focus is on exploration of nursing roles within precepted clinical experiences. Students apply critical thinking to promote and restore health using the Cedarville University Department of Nursing Curricular Model. Emphasis is given to application of Biblical truth in health care delivery and in addressing common ethical and legal issues encountered by nurses. Prerequisites: Completion of all Junior-level nursing courses. NSG-3930

Nursing Research and Evidence-Based Practice-Fa

3 hours

The research process is studied as an information management tool applied to the investigation of health balances and imbalances. Basic elements of the research process, including ethical issues, are discussed and applied to published nursing research and student proposals. Prerequisites: NSG-3080 Concepts in medical surgical Nursing; PYCH-2610 Statistics. NSG-4000 Care of Populations-Fa

6 hours

14 hours

Students focus on contemporary health issues of populations and communities using theoretical models of epidemiology, health promotion, primary health care, and public health practice. Students integrate knowledge from the health, social, and nursing through targeted assessment, interventions, programs, and advocacy. Prerequisite: senior nursing major standing; Corequisite: NSG-4020 Nursing Leadership/Management. (Fee: \$200)

NSG-4010 Adult/Child Health Nursing-Fa

Focus is on common physiological imbalances of adults and children and the nursing care required to restore or promote health balance across the five dimensions. Special emphasis is given to the application of biblical truth concerning illness, suffering, helping, and compassion, along with common moral and ethical issues encountered by nurses. Students gain increasing independence in professional nursing role development as designers and coordinators of care. Prerequisites: NSG-2150 Nutrition; NSG-3080 Concepts in Medical-Surgical Nursing; NSG-3090 Public Health Nursing; NSG-3110 Pharmacology. (Fee: \$200)

NSG-4020 Nursing Leadership/Management-Fa 6 hours

The focus is on the development of leadership and management knowledge and behaviors required for the baccalaureate prepared nurse. Special emphasis is given to the biblical framework for leadership and management. Clinical experiences provide opportunities to apply leadership and management principles and theories as providers, managers, and coordinators of nursing care. Prerequisites: senior nursing status; Corequisite: NSG-4000 Care of Populations. (Fee: \$200) 6 hours

NSG-4030 Complex Care Management-Sp

Focuses on the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is placed on the growth of personal and professional development with respect to biblical character qualities. Students assume professional nursing roles in a variety of critical care settings working under the supervision of faculty. Prerequisites: NSG-4000 Care of Populations; NSG-4020 Nursing Leadership Management; Corequisite: NSG-4950 Seminar in Nursing. (Fee: \$200)

NSG-4050 Leaders as Managers in Clinical Nursing 10 hours

Focuses on the observation and development of leadership/ management skills and the nursing management of individuals or groups experiencing complex multidimensional health imbalances. Special emphasis is given to the biblical view of successful leadership/management. Students assume professional nursing roles working under the supervision of faculty, RN preceptors, clinical specialists, and/or various levels of nurse managers in their clinical area of choice. Students work full-time for five weeks following the preceptor's schedule and shift, including nights, weekends, and holidays. Prerequisite: NSG-4010 Adult/Child Health Nursing or permission of instructor. (Fee: \$200) 6 hours

NSG-4060 Transition into Practice-Sp

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 during the course following the preceptor's schedule and shift, including nights, weekends, and holidays. Students demonstrate successful application by meeting program objectives for using nursing as ministry. Prerequisite: completion of all other clinical nursing courses.

NSG-4090 Public Health Project-Fa, Sp 1 hour

Nursing students work in a collaborative relationship with a community to assess, intervene, and evaluate the capacity to improve the health of a population. Prerequisites: NSG-3070 Nursing Care of Diverse Populations; NSG-3090 Public Health Nursing. (Fee: \$50)

NSG-4200 Culture and Health-Fa

3 hours

Situations in which cross-cultural dilemmas emerge from the interaction of culture and health are analyzed to derive models for resolution. Prerequisite: junior/senior status or permission of instructor.

NSG-4800 Independent Study in Nursing-Sp 1-3 hours

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

NSG-4830 Theory in Nursing-Sp 2 hours Theories of nursing and borrowed theory are studied to demonstrate conceptual frameworks for nursing care used to restore balance of resources and demands. Students comparatively analyze a data set using Christian nursing theory and at least one other set of assumptions. Prerequisite: NSG-4010 Adult/Child Health Nursing.

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Course Descriptions

NSG-4930 – PFMU-3220

1 hour

1 hour

1 hour

NSG-4930

Nursing Research and Evidence Based Practice-Fa

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-Sp

3 hours

3 hours

Focuses on trends in professional nursing. Students are challenged to integrate a Christian philosophy of nursing as they adopt the role of professional nurse. The political, legal, economic, social, and ethical factors that disrupt the balance of resources and demands in health care are debated. Capstone course. Prerequisite: NSG-4010 Adult/Child Health Nursing.

Physical Education Activity Courses (PEAX) 1 hour PEAF-1110 Personal Exercise Program: Men 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. If taken for letter grades, majors may use these courses to satisfy specific curricular requirements.

PEAE-1240 Self Defense: Women-Fa, Sp	1 hour
PEAE-1300 Contemporary Aerobics: Women-Fa, Sp	1 hour
PEAE-1320 Aquaerobics: Women (Fee: \$60)–Sp	1 hour
PEAE-1400 Weight Training: Coed–Fa, Sp	1 hour
PEAE-1450 Intermediate Weight Training-Fa, Sp	1 hour
Prerequisite: PEAE-1400 Weight Traning: Coed	
PEAI-1430 Badminton: Coed-Sp	1 hour
PEAI-1460 Bowling: Coed (Fee: \$70)–Fa, Sp	1 hour
PEAI-1540 Golf: Coed (Fee: \$15)–Fa	1 hour
PEAI-1550 Intermediate Golf: Coed (Fee: \$25)-Fa	1 hour
PEAI-1600 Racquetball: Coed (Fee: \$15)–Fa, Sp	1 hour
PEAI-1770 Tennis: Coed–Fa, Sp, Su	1 hour
PEAI-1780 Advanced Tennis: Coed	1 hour
PEAL-1420 Backpacking: Coed (Fee: \$30)–Fa, Sp	1 hour
PEAL-1510 Cycling: Coed–Fa	1 hour
PEAL-1610 Rock Climbing: Coed (Fee: \$25)–Fa, Sp	1 hour
PEAL-1620	1 hour
Intermediate Rock Climbing:Coed (Fee: \$125)-Sp	
Prerequisite: PEAL-1610 Rock Climbing: Coed	

PEAR-2100 Rhythmics: Coed-Fa PEAS-1120 Tumbling: Coed-Sp PEAS-1130 Apparatus: Men-Sp PEAS-1140 Apparatus: Women-Sp

1 hour PEAT-1020 Basketball: Coed-Sp 1 hour PEAT-1050 Soccer: Coed-Fa, Sp 1 hour PEAT-1820 Volleyball: Coed-Fa, Sp 1 hour PEAT-1830 Advanced Volleyball: Coed 1 hour PEAS-1700 Swimming I – Beginners: Coed–Fa 1 hour

Designed for nonswimmers or swimmers with minimal swimming background; introduces and develops three strokes: front crawl, back crawl, and elementary back. (Fee: \$35) PEAS-1720 Swimming II – Intermediate: Coed–Fa 1 hour

Focuses on refining the front crawl, back crawl, elementary backstroke, side stroke, and breast stroke. Emphasis on increased endurance and conditioning level. Prerequisites: PEAS-1700 Swimming I; American Red Cross Level IV certificate. (Fee: \$35) PEAS-1730 Swimming III – Advanced: Coed–Sp 1 hour

Designed for swimmers who have gained experience through lessons or competitive swimming. Course develops stroke proficiency for all strokes including the butterfly. Includes an introduction to training regimen for lifetime fitness. (Fee: \$35) PEAS-1740 Lifeguarding Today: Coed-Sp 2 hours

Provides lifeguards and lifeguard candidates with skills and knowledge necessary to keep the patron of an aquatic facility safe in and around the water. Teaching of lifeguarding skills and knowledge needed to prevent and respond to aquatic emergencies, preparing candidates to recognize emergencies, respond quickly and effectively to emergencies, and prevent drownings and other incidents. Prerequisite: age 15 or older; swim 500 yards continuously using front crawl, breast stroke, and side stroke; surface dive and submerge to a minimum depth of seven feet, retrieve a 10 pound object and return with it to the surface; tread water for two minutes using legs only. (Fee: \$120) 2 hours

PEAS-1750 Water Safety Instructor: Coed-Sp

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)

Physical Education Fitness (PEF)

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. Letter-graded course.

Music Performance (PFMU) PFMU-3100 Piano Ensemble-Fa. Sp

0-1 hours

1 hour

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. 0-1 hours

PFMU-3210 Jubilate-Fa, Sp

Ministry team of 40 select voices; open to all students by audition. Repertoire is selected from a wide spectrum of musical styles in evangelical traditions. Meets twice a week. Annual tour spring semester.

PFMU-3220 Worship Ensemble-Fa, Sp 0-1 hours Ministry team of 8–10 singers, instrumentalists, and technicians;

open to all students by audition. Repertoire is contemporary Christian and praise and worship music. Group will tour on behalf of the University throughout the school year and during breaks. Prerequisite: admission by audition only.

PFMU-3650 Chamber Ensemble-Fa, Sp

0-1 hours

The performance of representative literature in a variety of instrumental and vocal settings. Groups are normally 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-3840 Women's Choir-Fa, Sp 0-1 hours The Women's Choir consists of 50 treble voices, selected by audition. Repertoire embraces all historical periods and styles with performances on campus, in schools, in churches, and in civic meetings.

PFMU-3850 Opera Ensemble-Fa

0-1 hours The coaching, staging, and performance of operatic literature in scenes, recitals, or full-scale productions.

0-1 hours PFMU-3880 Brass Choir-Fa, Sp

The Brass Choir of select instrumentation consists of 20 to 25 members. It serves the University and its constituency by performing concerts featuring the highest quality brass choir literature. Major concerts are performed each semester.

PFMU-3940 University Orchestra-Fa, Sp 0-1 hours The Orchestra is composed of string, wind, brass, and percussion players selected by audition. The group performs challenging, high-quality literature in concerts on campus and has opportunities to minister in local churches.

PFMU-3970 Symphonic Band-Fa, Sp 0-1 hours The Symphonic Band is composed of approximately 80

members, selected by audition. Performing quality band literature, the band has appeared before state and national conference audiences and in concert under the baton of such guest conductors as Jim Curnow, George Strombeck, and George Wilson. Several concerts are presented each year on campus, in churches, and in schools.

PFMU-3980 Jazz Band-Fa, Sp

Course Descriptions

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.

Pharmacy (PHAR)

1 hour

PHAR-1011 Profession of Pharmacy-History and Issues-Fa, Sp

The profession of pharmacy has a long history, believed to have started in the 9th century around Baghdad, then spreading to Europe as alchemy. This course will explore the history of pharmacy as it diverged from the practice of medicine and how this impacts the practice of pharmacy today and the future of the profession. Projects will include using historical models and identify trends in pharmacy in order to predict future avenues of the profession as well as ethical and legal dilemmas that may ensue. Prerequisite: admission to the Pre-Pharmacy program.

PHAR-1012

Profession of Pharmacy-History and Issues-Fa, Sp

The profession of pharmacy has a long history, believed to have started in the 9th century around Baghdad, then spreading to Europe as alchemy. This course will explore the history of pharmacy as it diverged from the practice of medicine and how this impacts the practice of pharmacy today and the future of the profession. Projects will include using historical models and identify trends in pharmacy in order to predict future avenues of the profession as well as ethical and legal dilemmas that may ensue. Prerequisite: admission to the prepharmacy program. PHAR-2013 1 hour

Profession of Pharmacy-Careers-Fa, Sp

The profession of pharmacy has experienced tremendous growth over the past twenty years, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths will be giving lectures regarding current opportunities as well as projected growth within his/her field of practice. Prerequisite: admission to prepharmacy program; PHAR-1011 Profession of Pharmacy-History and Issues; PHAR-1012 Profession of Pharmacy-History and Issues.

PHAR-2014

Profession of Pharmacy-Careers-Fa, Sp

1 hour

The profession of pharmacy has experienced tremendous growth over the past twenty years, both in terms of numbers in the profession as well as opportunities. In this course, the student will learn of many career options available to the pharmacist. Practicing pharmacists within different career paths will be giving lectures regarding current opportunities as well as projected growth within his/her field of practice. Prerequisite: admission to the prepharmacy program; PHAR-1011 Profession of Pharmacy-History and Issues; PHAR-1012 Profession of Pharmacy-History and Issues. 3 hours

PHAR-2100 Biostatistics-Sp

In this course, the student preparing to enter the field of pharmacy will learn to understand and distinguish between statistical tests. Components of the course will include methods of data collection and study design, data analysis, and report writing. The students will design their own study and explain statistical methods as well as present at a journal club. Prerequisite: thirdyear prepharmacy student; PHAR-1011 Profession of Pharmacy-History and Issues; PHAR-1012 Profession of Pharmacy-History and Issues.

PHAR-3000 Pharmacy Activity-Fa, Sp

1-2 hours

While there are many career options in the field of pharmacy, many students are unsure or unaware of the opportunity available. In this course, prepharmacy students will have the opportunity to work with a pharmacist in their practice setting and/or observe non-traditional settings where a pharmacist might work. During the course, the student will observe a pharmacist or pharmacy-related setting 3 hours weekly and will meet as a class for one hour every week. Prerequisite: admission to prepharmacy program; PHAR-1012 Profession of Pharmacy-History and Issues; PHAR-2014 Profession of Pharmacy-Careers

PHAR-3200 Pharmacy Calculations-Fa

2 hours In this course, skills will be developed to apply pharmaceutical mathematics to safely and accurately calculate dose, rate of infusion, and/or compound prescriptions. Basic elements will include conversion between units, understanding weights and measures, and methods of expressing concentration. Prerequisites: third-year prepharmacy student; PHAR-1012 Profession of Pharmacy-History and Issues; PHAR-2014 Profession of Pharmacy-Careers.

Physics: General Education (PHYS)

Except where noted, general education courses are designed to meet the general education requirements for graduation. These courses will not count toward graduation requirements for majors found in the department of science and mathematics unless they are specifically listed in the curriculum requirements for a major. A student majoring in science or mathematics may take these courses only as electives. However, any course listed for a science or mathematics major or minor may also count toward fulfilling general education requirements.

PHYS-1010 College Physics I–Fa

5 hours

Basic concepts of mechanics and thermodynamics using algebra and trigonometry. This is the first of a two-course sequence intended for students in the life sciences and preprofessional programs. Topics include kinematics, motion in two dimensions, forces and motion, work and energy, momentum, circular motion, gravitation, waves, phases of matter, heat, and the laws of thermodynamics. Four lectures and one two-hour laboratory per week. *Prerequisite: high school trigonometry; or GMTH-1030 Precalculus or equivalent.* (Fee: \$100)

PHYS-1020 College Physics II-Sp

5 hours

4 hours

Basic concepts of electricity and modern physics using algebra and trigonometry. This is the second of a two-course sequence intended for students in the life sciences and preprofessional programs. Topics include electricity, magnetism, AC circuits, geometrical and physical optics, relativity theory, quantum theory and other modern physics topics. Four lectures and one two-hour laboratory per week. *Prerequisite: PHYS-1010 College Physics I or equivalent.* (Fee: \$100)

Physics: Major (PHYS)

PHYS-2110 General Physics I-Fa, Sp

Basic concepts of mechanics using calculus. This is the first of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include linear and rotational motion in three dimensions, oscillatory motion, gravitation, fluid mechanics, and basic concepts of wave motion. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1710 Calculus I; MATH-1720 Calculus II; MATH-1720 may be co-enrolled with permission of instructor.* (Fee: \$100)

PHYS-2120 General Physics II-Fa, Sp

4 hours

Basic concepts of electricity and magnetism, light, and optics using calculus. This is the second of a three-course sequence intended for students in the physical sciences and engineering programs. Topics include electricity, magnetism, Maxwell's equations, DC and AC circuits, geometrical and physical optics. Three lectures and one two-hour laboratory per week. *Prerequisites: MATH-1720 Calculus II; PHYS-2110 General Physics I.* (Fee: \$100)

PHYS- 2130 General Physics III-Fa

2 hours

Basic concepts of thermodynamics and modern physics using calculus. This is the third of a three-course sequence intended for students in the physical sciences programs. Topics include heat and thermodynamics, relativity theory, quantum theory, atomic and nuclear physics. *Prerequisites: MATH-1720 Calculus II; PHYS-2120 General Physics II; PHYS-2120 may be co-enrolled with permission of instructor.*

PHYS-3110 Intermediate Physics Laboratory–Fa 2 hours

Designed to reinforce concepts of the advanced physics courses and develop critical research and analysis skills. This course provides laboratory experience in such topics as oscillatory motion and waves, mechanics, electricity and magnetism, thermodynamics, and quantum mechanics. During this semester the student will develop his or her prospectus for his or her advanced laboratory project. Laboratory skills for planning, setup, documentation, and analysis using the scientific method will be emphasized. *Prerequisite: 3 hours of a 3000- or 4000-level physics course.* (Fee: \$100)

PHYS-3310 Theoretical Mechanics I–Sp3 hoursDerivation of the motion of a point object through 3-dimensionalspace. Topics include an advanced treatment of Newtonianmechanics in three dimensions, oscillatory motion, acceleratedframes of reference, central forces, and an introduction toLagrangian mechanics. Prerequisites: PHYS-2120 GeneralPhysics II; MATH-2740 Differential Equations; MATH-2740 may beco-enrolled with permission of instructor. (even years)PHYS- 3330 Acoustics–Fa

This course will study the generation, transmission and reception of sound. Topics include wave propagation through the air, resonance conditions for strings, bars, membranes and air cavities, acoustic filters, measurement and human perception of sound. Applications will be made to musical instruments, room acoustics, microphones, and speakers. *Prerequisites: MATH-2710 Differential Equations; PHYS-2110 General Physics I.* (even years) **PHYS-3350 Thermal Physics**–Fa **3 hours**

Study of the relationship between energy and matter through the use of thermodynamics and statistical mechanics. Topics include the laws of thermodynamics, heat, work, entropy, phase transformations, statistical distributions, and kinetic theory. *Prerequisite: PHYS-2130 General Physics III.* (odd years) **PHYS-3410 Electromagnetic Theory I**–Fa **3 hours**

Electricity and magnetism from an advanced viewpoint using the methods of vector calculus. Includes electrostatics, Gauss' Law, Poisson's equation, Laplace's equation, dielectric media, electric currents, and magnetostatics. *Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III.* (odd years) **PHYS-3510 Modern Physics**–Sp **3 hours**

Introduction to relativity theory, quantum theory, including Schrodinger's Equation, and its basic applications, and atomic structure. *Prerequisite: PHYS-2130 General Physics III.* **PHYS-3800 Research Methods in Physics**–Sp **1 hour**

Reinforces concepts of the advanced physics-sp Thou develops critical research and analysis skills. This course will focus on basic library, research, and laboratory skills for planning, setup, documentation, and analysis using the scientific method. Selected software will be introduced and used to collect data, analyze results, and document findings. There will be several laboratory sessions with experiments selected from oscillatory motion and waves, intermediate mechanics, intermediate electricity, intermediate magnetism, thermodynamics, or quantum mechanics. *Prerequisite: PHYS-2130 General Physics III.* (Fee: \$50)

PHYS-4110 Advanced Physics Laboratory-Sp

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 guantum mechanics. During this semester the students will be conducting their advanced laboratory project, collecting data, and documenting results. Laboratory skills for planning, setup, documentation, analysis, and briefing using the scientific method will be emphasized. Prerequisite: PHYS-3110 Intermediate Physics Lab. (Fee: \$100)

PHYS-4210 Mathematical Methods for Physicists-Fa 3 hours

Advanced mathematical methods used in the solution of physics problems. Topics include curvilinear coordinates, vector analysis, and solutions to partial differential equations using Fourier, Bessel and Legendre functions. Prerequisites: MATH-2710 Calculus III; MATH-2740 Differential Equations; 3 hours of a 3000 or 4000-level physics course. (even years) 3 hours

PHYS-4310 Theoretical Mechanics II-Fa

Principles of mechanics applied to systems of particles. Topics include rigid body motion, Hamilton's equations, continuous media and nonlinear oscillators. Prerequisites: PHYS-3310 Theoretical Mechanics I. (odd years)

PHYS-4410 Electromagnetic Theory II-Sp

3 hours Continuation of PHYS-3410. Includes magnetic properties of matter, electromagnetic induction, magnetic energy, slowly varying currents, Maxwell's equations and their applications, and introductory electrodynamics. Prerequisite: PHYS-3410 Electromagnetic Theory I. (odd years)

PHYS-4450 Optics-Fa

3 hours

2 hours

Introduction to the study of classical and modern optics, including geometric optics, wave optics, and quantum optics. Topics include thin lenses, thick lenses and systems of lenses, mirrors, aberrations, lens design, interference, coherence, diffraction, polarization, and holography. Prerequisites: PHYS-2120 General Physics II; MATH-2710 Calculus III. (even years) 3 hours

PHYS-4520 Quantum Mechanics I-Fa

An introduction to the principles and theory of quantum mechanics including: the wave function, the time-independent Schrodinger's Equation, mathematical formalism of quantum mechanics, quantum mechanics in three dimensions, and systems of identical particles. Prerequisite: PHYS-3510 Modern Physics. (even years)

PHYS-4530 Quantum Mechanics II-Sp

3 hours

Continuation of Quantum Mechanics I. Topics treated include identical particles, spectral hyperfine structure, magnetic properties of matter, external fields, atomic spectroscopy of outer electrons, atomic spectroscopy of inner electrons, high-energy photon effects, molecular binding and spectra, emission and absorption of light, many particle system, W.K.B. approximation, angular momentum theory. Prerequisite: PHYS-4520 Quantum Mechanics I. (even years) 3 hours

PHYS-4550 Solid State Physics-Sp

Studies of basic concepts and important applications in solid physics; discussion topics include crystal structures, crystal dynamics, free electron model, energy bands in periodic potentials, semiconductor and semiconductor devices, magnetic order. Prerequisite: PHYS-3350 Thermal Physics. (odd years)

PHYS-4800 Senior Seminar-Physics-Fa

A presentation of the basic principles of the major disciplines of the sciences with a focus on the interrelationships of the science disciplines to each other. Students present a paper from library or laboratory research in their area of physics with a focus on integration. Each student must obtain approval of the topic from his or 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 or her research. Guest lecturers and faculty members may present papers at the invitation of the instructor. Prerequisite: PHYS-4110 Advanced Physics Lab; permission of instructor.

PHYS-4880 Topics in Physics

1-3 hours

1 hour

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)

Music Private Study (PLMU)

Private instruction for credit in piano, voice, guitar, orchestral and band instruments, and composition is available to all music majors. Students with majors outside of the department of music, art, and worship need special approval from the department chair.

Credit in performance lessons is based on a minimum of six hours of practice and one half-hour lesson per week for one hour of credit. An audition is required for initial registration. Continued registration is based on satisfactory progress as determined each postar by the instructor (Eas: \$100 per aradit)

1-2 hours
1-2 hours
1-2 hours
1-2 hours
rn
1-2 hours
approval.
1-2 hours

Prerequisites: music or worship student, or instructor approval. PLMU-1830, 2830, 3830, 4830 1-2 hours

Contemporary Guitar-Fa, Sp

Prerequisites: music or worship student, or instructor approval.

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PLMU-2800, 3800, 4800 Music Composition PLMU-3900 Junior Recital

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-3910 Junior Seminar-Sp 1 hour

Group preparation for Senior project capstone presentation. Prerequisite: junior status.

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 1 hour

One-on-one preparation for the senior project capstone presentation. Prerequisite: PLMU-3910 Junior Seminar (Fee: \$100) PLMU-4920 Senior Project-Sp 1 hour

The capstone project for the B.A. in Music degree. Students may register for this course at the same time as Senior Seminar. (Fee: \$75)

Political Science (POLS)

POLS-2000 Introduction to Political Science-Fa 3 hours

This course offers students a window into the discipline of political science. Students will be exposed to basic methods of the discipline, the fundamental issues of biblical integration and political science, as well as the dominant sub-fields: American politics, comparative politics, international relations, and political philosophy.

POLS-2100 American Political Institutions-Sp 3 hours

This course is an introduction to the legislative, executive, and judicial branches of government. This course focuses on the constitutional structure of all three branches, as well as their historical and political development, and it introduces students to the variety of approaches scholars use when studying the branches of government.

POLS-2250 Popular Culture and Politics-Sp

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC.

POLS-2620 American State and Local Government-Sp3 hours

The organization and function of states and their political subdivisions form the basis of study in this course.

POLS-3080 3 hours History of Russia and the Soviet Union-Fa

See course description for GEO-3080 History of Russia and the Soviet Union.

POLS-3100 Public Budgeting-Fa

See course description for PUAD-3100 Public Budgeting. POLS-3190 Global Issues-Sp 3 hours

See course description for INTL-3190 Global Issues. POLS-3200 History and Politics of Latin America-Fa 3 hours

See course description for GEO-3200 History and Politics of Latin America. (even years)

POLS-3210 History and Politics of Asia-Fa 3 hours See course description for GEO-3210 History and Politics of Asia. (odd years)

POLS-3220

3 hours

3 hours

3 hours

History and Politics of the Middle East-Sp See course description for GEO-3220 History and Politics of the Middle East.

POLS-3230

History and Politics of Western Europe-Sp

See course description for GEO-3230 History and Politics of Western Europe. (odd years) 3 hours

POLS-3240

History and Politics of Eastern Europe-Sp

See course description for GEO-3240 History and Politics of Eastern Europe. (even years)

POLS-3250

History and Politics of Central and South Asia-Fa See course description for GEO-3250 History and Politics of Central and South Asia. (odd years)

POLS-3360 American Judicial System-Fa

3 hours Federal and state court systems, duties and responsibilities of the prosecutor, defense counsel, jury, and judge including related topics ranging from plea bargaining to sentencing. Crosslisted as CRJU or POLS. Prerequisite: CRJU-1310 Introduction to Criminal Justice.

POLS-3540 History and Politics of Africa-Sp 3 hours See course description for GEO-3540 History and Politics of Africa. (even years)

POLS-3600 Public Administration-Fa

See course description for PUAD-3600 Public Administration. POLS-3640 Campaigns and Elections-Fa 3 hours

This course examines the fluid nature of political campaigns and elections in modern American politics. Students will study the strategies of political campaigns, including use of the media, fund raising, and resource allocation, as well as individual-level voting behavior as it is practiced in the context of campaigns. Prerequisite: GSS-1100 Politics and American Culture. (even vears) 3 hours

POLS-3650 International Relations-Fa

A survey of contemporary international affairs and principles of interstate relations, focusing on forces that unite and divide our world. Crosslisted as INTL or POLS.

POLS-3690 Public Policy–Sp	3 hours
See course description for PUAD-3690 Public Policy.	
POLS-3710	3 hours

History of Political Thought I: Ancient Through Medieval-Fa See course description for HIST-3710 History of Political Thought I: Ancient Through Medieval. 3 hours

POLS-3720

History of Political Thought II: Modern and Contemporary-Fa See course description for HIST-3720 History of Political Thought II: Modern and Contemporary.

POLS-3730 American Political Thought-Fa, Sp 3 hours Survey and examination of the course of political thought in the American colonies and the United States from the 1600s to current times. Includes special attention to American founders and the rise of political liberalism in the thought of Woodrow Wilson.

Crosslisted as POLS or HIST. (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

Issues in International Diplomacy-Sp

See course description for HIST-4050 Issues in International Diplomacy.

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3 hours

3 hours

Course Descriptions

POLS-4300 - PYCH-3520

POLS-4300 Great Books in History and Politics-Sp 3 hours

This course will require the student to read a single classic work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD, or HIST. Prerequisite: GSS-1100 Politics and American Culture (odd vears)

POLS-4440 Special Topics-Political Science 1-3 hours Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

POLS-4620 Religion and American Politics-Fa 3 hours

This course examines the intersection of religion and American politics by studying the historical, constitutional, and cultural contexts of the interaction. Special attention is paid to America's founding and to the politics of evangelical and fundamentalist Protestantism in the twentieth century. (odd years)

POLS-4630 American Constitutional Law-Sp 3 hours In-depth analysis of selected Supreme Court decisions and

their relevance to political, social, economic, and religious dimensions of American life.

POLS-4700 Prelaw Seminar-Fa, Sp 3 hours Individual projects acquaint the student with legal procedures and research in areas such as briefs and contracts.

POLS-4800 Seminar in International Studies-Fa 3 hours

A seminar/readings course intended to prepare senior students for graduate study. Through readings and discussion, students explore classical writings on international relations and international issues that are shaping our contemporary and future world. Crosslisted as INTL or POLS.

POLS-4900 Research in Political Science-Fa, Sp 3 hours

Senior capstone thesis course in which students engage in original research and writing for the completion and defense of thesis before a committee of professors. Course emphasizes substantive cross-disciplinary and biblical integration within research topic. Prerequisite: all political science major requirements or permission of instructor. (Fee: \$100) **POLS-4930** 1-3 hours

Independent Study in Political Science

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Psychology (PYCH)

PYCH-1000 Orientation to Psychology-Fa, Sp

Acquaints the psychology major with various areas and issues in the field of psychology. Included will be its specialties, graduate school information, vocational opportunities, and legal and ethical matters. Should be taken during the freshman year.

PYCH-1600 General Psychology-Fa, Sp, Su

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

A survey course designed to make students sensitive to the impact of culture on life.

PYCH-2600 Human Development: Life Span-Fa, Sp 3 hours An analysis of the physiological, social, and psychological

development of the individual from conception through the total life span.

PYCH-2610 Statistics-Fa, Sp, Su

3 hours

3 hours

Designed to provide an elementary coverage of descriptive and sampling statistics commonly used in the behavioral sciences. Includes problems of measurement, measures of central tendency and dispersion, linear correlation, prediction, and simple tests of significance. (Fee: \$5)

PYCH-2640 Abnormal Psychology -Fa, Sp

Focus upon etiology, symptomatology, and prognosis of psychological disturbance. Prerequisite: PYCH-1600 General Psychology.

PYCH-2725 Child Development-Fa, Sp 2 hours A study of the physiological, social, and spiritual growth of the child from conceptual through preadolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems. (Fee: \$10)

PYCH-2735 Child-Adolescent Development-Fa, Sp 3 hours

A study of the physiological, social, and spiritual growth of the child from conceptual through adolescence. Emphasis on the developmental research on family systems theory, the importance of developmentally appropriate learning objectives including play, and the influence of cultural practice and beliefs on family systems. (Fee: \$10)

PYCH-2750 The Parent and the Child 3 hours Designed to explore the basic value requisites for effective family living. Basic concepts such as love, communication, and parental modeling will be stressed.

PYCH-2751 Family and Couple Interventions-Sp 3 hours Exploring the dynamics of marriage relationships and family systems. Scriptural, psychological, and Christian-life issues spanning pre-marriage through family life cycle are studied.

PYCH-2800 Addictions 3 hours This course examines a variety of addictions, including alcohol, drugs, food, sex, gambling, computer games/Internet, and codependence. The course will focus on symptoms, causes, treatments, and impact on society. Students will be challenged to develop a biblical perspective.

PYCH-2840 Concepts of Chemical Dependency-Sp 3 hours Available to all students. Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse and methods of assessment, intervention, and treatment. PYCH-2850 Psychology of Adjustment 3 hours

The systematic process of applying psychological principles to everyday issues of human life. Biblical perspectives are integrated into problem-solving paradigms for the development of a psychologically healthy personality.

PYCH-3130 Intimate Relationships-Fa

3 hours

Explores friendship, love, and romance from historical, theoretical, and philosophical perspectives. Prerequisite: PYCH-1600 General Psychology.

PYCH-3380 Health Psychology-Fa

3 hours

Designed to investigate the research and theory of many disciplines to understand how psychology and health are interconnected. The focus is on the major topics and problem areas in health psychology. (Fee: \$5) (even years) PYCH-3420 Human Sexuality-Sp 3 hours

Study of biblical content regarding human sexuality and an analysis of contemporary concepts within a framework of Christian thought. Crosslisted with SOC-3420 Human Sexuality.

Prerequisite: PYCH-1600 General Psychology.

PYCH-3520 Counseling and Mentoring Women-Fa 3 hours Study of the distinctives of biblical counseling specifically applied to counseling women, the mandate and skill of mentoring woman to woman, and biblical responses to life struggles that are specific to women. Crosslisted as BECE.

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3 hours

1 hour

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Course Descriptions PYCH-3610 - PUAD-3390

PYCH-3610

History and Systems of Psychology-Fa, Sp

Major trends in the development of psychology from its beginning to the present. Emphasis is placed upon contemporary theory. Prerequisite: PYCH-1600 General Psychology.

PYCH-3630 Testing and Measurement-Fa 3 hours Emphasis on measurement theory and its applications,

including concepts of validity, reliability, and test construction and selection. Prerequisite: PYCH-2610 Statistics. (Fee: \$20) **PYCH-3640** 3 hours

Industrial/Organizational Psychology

Psychology applied to the work world. Emphasis is on methodology and activities of industrial/organizational psychologists. Prerequisite: PYCH-1600 General Psychology or permission of instructor. 3 hours

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-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. 3 hours PYCH-3690 Social Psychology-Fa, Sp

The study of the behavior of individuals as it is influenced by past and/or present interactions with social factors. Prerequisite: PYCH-1600 General Psychology.

PYCH-3700 Adolescent Development 3 hours

Recent research dealing with adolescents will be emphasized. Emphasis is placed on the interaction of cultural, social, and personal family variables. Spiritual variables are integrated into the developmental process. Prerequisite: PYCH-1600 General Psychology.

PYCH-3701 Counseling Adolescents-Fa, Sp 3 hours

This course introduces students to counseling interventions for helping adolescents who are struggling with common developmental and adjustment problems. Prerequisite: PYCH-1600 General Psychology

PYCH-3710 Adult Development and Aging-Sp 3 hours The study of physical, psychological, social, and spiritual development and experience in the adult years. Prerequisite: PYCH-1600 General Psychology.

PYCH-3720 Psychology of Personality-Fa, Sp 3 hours Contemporary theories of the development, organization, and dynamics of personality. (Fee: \$15)

PYCH-3730 Research Methods-Fa. Sp 3 hours An introduction to methods utilized in behavioral science research; emphasis upon experimental methodology and research design. Prerequisite: PYCH-2610 Statistics or permission of instructor. (Fee: \$5)

PYCH-3740 Qualitative Research-Fa 3 hours An investigation of a scientific method of inquiry utilizing

gualitative rather than guantitative methodologies. Research methodologies such as participant observation and in-depth interviewing will be emphasized. A significant portion of the course will involve students actively engaging in gualitative research projects and preparing papers for potential presentation and publication.

PYCH-3750 Psychological Testing 3 hours

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-3901 Medications and Behavior-Sp

3 hours

An overview of the major categories of psychotropic medications. Emphasis is on general understanding of how these medications affect behavior, their mechanism of action, and common side effects. Prerequisite: PYCH-1600 General Psychology. (even years)

PYCH-4400 Counseling Skills-Fa, Sp 3 hours Emphasis is on assisting individuals in ways of dealing with solving or transcending their problem situations. The methods and skills of helping others are investigated.

PYCH-4640 Literature Seminar in Psychology-Fa,Su 3 hours Reports and discussions of research literature in psychology.

Required of all psychology majors during their senior year. Prerequisite: permission of instructor.

PYCH-4650 Special Topics Seminar

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. 3 hours

PYCH-4950 Senior Research Project-Fa, Sp

Provides opportunities for students to conduct an independent research project on a topic of interest and prepare a publishable paper under the supervision of an individual faculty advisor. (Fee: \$20)

PYCH-4960 Independent Study in Psychology 1-3 hours Independent research carried out by the advanced psychology student in an area of interest and usefulness to the student. Prereauisite: 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)

Public Administration (PUAD)

PUAD-3100 Public Budgeting-Fa 3 hours Analysis of public sector budgeting at all levels of government in the United States with an emphasis on budgets as reflectors of priority, power, and control. Crosslisted as POLS or PUAD. PUAD-3390 Public Finance-Sp

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.



1-3 hours

PUAD-3600 Public Administration-Fa

3 hours

Introduction to public administration both as a discipline and profession, including organization theory, budgeting, public policy analysis and evaluation, and public sector administration. Crosslisted as POLS or PUAD.

PUAD-3690 Public Policy-Sp

3 hours

Focus on decision making, problem solving, and methods of program analysis. Crosslisted as POLS or PUAD.

PUAD-4300 Great Books in History and Politics-Sp 3 hours This course will require the student to read a single classic

work of history and political thought (or a limited number of related works) and with other students, to closely and critically analyze the argument of the work. Crosslisted as POLS, INTL, PUAD or HIST. Prerequisite: GSS-1100 Politics and American Culture (odd vears)

PUAD-4440 Special Topics-Public Administration 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

PUAD-4640 Strategies for Public Administration-Fa 3 hours

Designed to acquaint the advanced student in public administration or international studies with some of the policy decisions facing American government. All three levels of American government, federal, state, and local, will be examined in light of their particular relationships with foreign governments. (odd years)

PUAD-4800 Applied Public Administration-Fa 3 hours

Capstone course for public administration majors, involving the research of issues related to public administration in the United States from a normative and/or empirical perspective. (Fee: \$100) **PUAD-4970** 1-3 hours

Independent Study in Public Administration

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Science Education (SCED)

SCED-3120 Teaching Science-Fa

Course Descriptions

3 hours

Introduces prospective secondary school science teachers to the curriculum, materials, and methods of classroom and laboratory science teaching. Attention will be given to the philosophy and education psychology theories that are currently influencing science education and the methods of instruction that arise from these theories. Teacher education students participate in activities and complete assignments designed to provide experience in science lesson planning, acquisition of classroom and laboratory resources, and strategies of maintaining science laboratory safety. Prerequisite: admission to the teacher education program. (Fee \$100)

Sport and Exercise Studies (SES)

1-3 hours

Independent Study in Sport and Exercise Studies-Fa, Sp Independent Study in the area of sport and exercise studies by students pursuing the sport and exercise studies major. Departmental approval is required.

SES-4990

Internship in Sport and Exercise Studies-Fa, Sp

This is a work experience in a sport and exercise studies setting for a minimum of 100 work hours for 3 credit hours and up to 200 work hours for 6 credit hours with a minimum of 20 work hours per week. Capstone course for sport and exercise studies major. Prerequisite: Senior status and departmental approval are required. Credit/no credit. (Fee \$35) **SES-4995** 3-6 hours

Senior Research Project in Sport and Exercise Studies-Fa, Sp

The senior research project is recommended for those students planning to go to graduate school or those interested in doing a significant research project. The proposal for the Senior Project will be submitted no 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 exercise and sport science major. Prerequisites: ESS-4600 Research in Athletic Training and Exercise Science or a comparable research course in their minor; senior status and departmental approval is required. Credit/no credit. (Fee \$35)

Sport Management (SMGT)

SMGT-1000 Sport Management Practicum-Fa, Sp 1 hour An on-campus sport management opportunity for students in the sport management major to be involved in a variety of activities compatible with athletic and recreational sporting events and experiences. A minimum of 30 hours is required for each practicum. Prerequisites: SMGT-1350 Introduction to Sport Management; departmental approval. Credit/no credit. SMGT-1350 Introduction to Sport Management-Sp 3 hours

This course is designed to introduce the student to the dynamic nature of sport management and the potential for successful and satisfying career opportunities.

SMGT-2100 Sport in Society-Fa

3 hours

The purpose of this course is to expand the student's understanding of sport by investigating how sport and society interact. The relationship of sport to social variables, institutions, and social issues/problems will be examined. Prerequisite: SMGT-1350 Introduction to Sport Management. 3 hours

SMGT-2500

Organizational Behavior in Sport-Fa, Sp

This course will help students define and understand the concepts of management and leadership within sport organizations. There will be a focus upon the various skills, roles, and functions of sport managers. This course places sport organizations in the context of their environment and emphasizes the manager's role in adapting and reacting to changes in the environment. 1 hour

SMGT-2910

Campus Sport Management Practicum-Fa. Sp

This practicum provides the sport management major the opportunity to assist faculty members or staff on the Cedarville University campus with his/her sport management responsibilities for a required minimum of 30 hours total. Prerequisite: Sophomore status or permission of the instructor. SMGT-2920 1 hour

Recreation Management Practicum-Fa, Sp

This practicum provides the sport management major the opportunity to assist a recreation management employee/ volunteer with his/her responsibilities for a required minimum of 30 hours total. Prerequisite: Sophomore status or permission of the instructor. (Fee \$30)

SES-4850

3 hours

3 hours

SMGT-3180 Legal Issues in the Sport Industry-Sp 3 hours

This course will focus on the three major areas of law that have a direct impact on the management of sport: tort liability and risk management, contract law, and constitutional law. Prerequisite: Junior status. Crosslisted with EXSC-3180 Legal Issues in the Sport Industry.

SMGT-3200 Facility Design and Management-Fa 3 hours

This course includes planning and designing areas and facilities in sports and utilization of those facilities for sporting events. Topics will include maintenance, supervision, scheduling, planning, renovation, etc. Prerequisite: Junior status or permission of the instructor. (Fee \$35)

SMGT-3300 Event Planning and Production-Sp 3 hours

This course includes the process of planning for and organizing an event in sport. Organizing a plan for an event would include financial planning, risk management, scheduling, facility use, communication, promotions, registration, etc. Prerequisite: Junior status or permission of the instructor.

SMGT-3880

1-3 hours

Special Topics in Sport Management-Su

This course will be a means of exposing students to current issues and trends in the sport industry.

SMGT-4100

4 hours

Marketing and Promotions in the Sport Industry-Fa

This course applies the principles of promotion and marketing to the sport and fitness industry, including the area of professional sports, corporate fitness, college/high school athletics, clubs, and resorts. Prerequisite: Senior status or permission of the instructor. 3 hours SMGT-4200 Financing Sport Operations-Fa

This course provides the student with an overview of the financial aspects of the sport industry. SMGT-4850 1-3 hours

Independent Study in Sport Management-Fa, Sp

Independent study in the area of sport management by students pursuing the sport management major. Departmental approval is required.

SMGT-4910 Athletic Administration Practicum–Fa, Sp 1 hour

This practicum provides the sport management major the opportunity to assist a local athletic administrator with his/ her responsibilities for a required minimum of 30 hours total. Prerequisites: SMGT-3200 Facility Design and Management; SMGT-3300 Event Planning and Production. SMGT-4990 12 hours

Internship in Sport Management-Fa, Sp

This is an actual work experience in a sport management setting for a minimum of 40 hours per week for a minimum of twelve weeks. Capstone course for sport management major. Departmental approval is required. Credit/no credit. (Fee: \$35)

Sociology (SOC)

SOC-1300 Introduction to Sociology-Fa, Sp 3 hours Introduction to the concepts of sociology. The structure and processes of social life are studied.

SOC-2200 Criminology-Fa

3 hours

Introduction to the major criminological perspectives regarding crime causation. Selected notorious crimes are considered as case studies to enhance understanding of each perspective. Crosslisted as CRJU or SOC.

SOC-2250 Popular Culture and Politics-Sp

This course will consider the relationship and effects which various forms of popular culture have had with/upon social and political movements as well as public policy initiatives both in America and International politics. The class will listen to, consider, and analyze a variety of cultural-artistic genres and the sociopolitical movements these engendered and supported in the 19th, 20th, and 21st centuries. Attention will be given to any or all of the following: music, film, art, and literature as well as to the historical, political, and social context. Crosslisted as POLS and SOC.

SOC-2310 Juvenile Delinguency-Sp

Study and assessment of casual theory and problems of correction and prevention of delinguency. Crosslisted as CRJU or SOC. (Fee: \$30)

SOC-2330 Introduction to Social Work-Fa 3 hours

See course description for SWK-2330 Introduction to Social Work.

SOC-2400 Marriage and the Family-Fa, Sp 3 hours

A biblical theology of marriage and the family is developed as a means by which to evaluate contemporary dating, marriage, and family arrangements. A major focus of the course is upon practical application related to such topics as dating/courtship, engagement, marital adjustment, in-law relations, communication and conflict resolution, family planning, and discipline.

SOC-2840 Concepts of Chemical Dependency–Sp 3 hours See course description for SWK-2840 Concepts of Chemical Dependency.

SOC-2900 Ethics in the Helping Professions-Fa, Sp 3 hours

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making and self awareness. Crosslisted as SOC or SWK. 3 hours

SOC-3330 Social Stratification-Fa

Study of the class structure and its implications for American society. Prerequisite: SOC-1300 Introduction to 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

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

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. 3 hours

SOC-3750 Social Movements-Fa, Sp

See course description for HIST-3750 Social Movements. SOC-4440 Special Topics-Sociology 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

2 hours

3 hours

SOC-4720 Social Theory-Fa

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

SOC-4800 Research in Sociology-Sp 3 hours Senior research paper in which each student focuses upon an

issue or topic within the discipline of sociology. (Fee: \$125) SOC-4910 1-3 hours

Independent Study in Sociology

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

Spanish (SPAN)

4 hours/sem

SPAN-1710, 1720 Elementary Spanish I and II-Fa, Sp, Su

Development of basic skills in reading, writing, speaking, and listening in Spanish to satisfy a broad variety of everyday, school, and work situations, along with an introduction to Hispanic cultures.

SPAN-1740 Intensive Spanish-Su

6 hours

This course is a six-credit, short-term course designed for students who wish to combine SPAN-1710 Elementary Spanish I and SPAN-1720 Elementary Spanish II. Prerequisites: minimum GPA 2.0, high school Spanish highly recommended.

SPAN-2710, 2720

Intermediate Spanish I and II-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. Open to Multi-age Spanish Education Majors only. Credit/No Credit (odd years)

SPAN-3500

2 hours

Methods of Teaching Foreign Language-Fa

Examination of the purposes and objectives along with the methods and curricular models used in the K-12 foreign language classroom. This course addresses the theories of first and second language acquisition, as well as topics such as the relationship of foreign language learning to other content areas. The student is given information regarding opportunities in planning lessons with appropriate materials, sequencing, and execution of learning activities. Evaluations of student learning, student behavior, and self-evaluation as integral parts of successful teaching are also stressed. The student will also gain insight into the importance of understanding one's own language and culture as a means to understanding the language and culture of the target peoples. Open to Multi-age Spanish Education majors only.

SPAN-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

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 3 hours Development of practical Spanish vocabulary and conversational skills related to careers in criminal justice, social work, and health care professions. Prerequisite: SPAN-2720

Intermediate Spanish or permission of instructor. (odd years) SPAN-3670 Introduction to Translation-Sp 2 hours

An introduction to theory and practice related to bilingual translation and interpreting. Students will learn strategies for translating a variety of text types, as well as the fundamentals of interpreting. Prerequisite: SPAN-3610 Spanish Composition; SPAN-3620 Spanish Conversation. (odd years)

SPAN-3680 Understanding Hispanic Cultures-Sp 3 hours Analysis of historical and contemporary issues that have shaped the Hispanic cultures in the US. Discussion of similarities and differences between Anglo and Latino worldviews. Course

taught in English; counts for Global Awareness elective. (even years) SPAN-3690 Hispanic Film-Sp 3 hours

Explores the genres of Hispanic film and how these genres portray the cultural, social, and political environments in Spain and the Americas. Prerequisites: SPAN-3640 Introduction to Hispanic

Literature; permission of instructor. (even years) SPAN-4610 Advanced Spanish Grammar-Fa 3 hours Intensive review of high frequency grammatical structures problematic to non-native speakers of Spanish. Exploration of the history of the language as well as the theoretical aspects of the nature of language and the practical development of written and oral skills in Spanish. Prerequisite: permission of instructor. (even years)

SPAN-4640 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; permission of instructor. (odd years)

SPAN-4650

Civilization and Literature of Latin America I-Fa

A survey of the geography, history, culture, and literature of Latin America from the pre-Columbian period through the 19th century. Emphasis is on the diversity of Latin American society and the factors that have shaped it. Literary works will be studied for their literary significance within their socio-historical context. Prerequisite: SPAN-3640 Introduction to Hispanic Literature. (odd vears)

SPAN-4670

3 hours

3 hours

Civilization and Literature of Latin America II-Sp A survey of the history, culture, and literature of Latin America from the 19th century to the present. Emphasis will be on acquiring a greater awareness of current issues in Latin American society and understanding their contributing factors. Literary works will be studied for their literary significance within their sociohistorical context. Prerequisite: SPAN-2720 Intermediate Spanish. (odd years)

SPAN-4680

2 hours

3 hours

2 hours

Advanced Conversation and Composition-Sp

Development of oral and written communication skills at the advanced level as well as expansion of vocabulary dealing with a variety of contemporary topics. Prerequisite: SPAN-3610 Spanish Composition, SPAN-3620 Spanish Conversation, or permission of instructor. (even years)

SPAN-4700 Independent Study in Spanish-Fa, Sp 1-3 hours Independent and intensive study in a particular area of the

Spanish language, literature, or culture for individual students who demonstrate special interests and ability.

SPAN-4740 Civilization and Literature of Spain I-Fa 3 hours

A study of major literary works of Spain from the medieval and Renaissance periods to the 17th century, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from prehistoric civilizations to the 17th century. Prerequisites: SPAN-3640 Introduction to Hispanic Literature; permission of instructor. (even years)

SPAN-4750 Civilization and Literature of Spain II-Sp 3 hours

A study of major literary works of Spain from the 17th century to the present day, with emphasis placed on understanding works within their socio-historical context, as well as their literary significance. Geography, history, and culture of Spain from the 17th century to present. Prerequisites: SPAN-4680 Advanced Conversation and Composition; permission of instructor. (even years)

SPAN-4790 20th Century Spanish Theatre-Sp

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)

Social Work (SWK)

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SWK-1100 Total Immersion Experience-Fa, Sp
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Available to all students. Preprofessional experience for students interested in social work. Participation with a social service agency, shadowing a social worker (who has a degree in social work or who is licensed as a social worker) for five full and consecutive days to better understand: (1) social work as a vocation; (2) the vulnerable populations social workers serve; (3) the professional helping relationship; and (4) the agency setting. Students must complete this class before applying for admission to the program. (Fee: \$60)

SWK-2330 Introduction to Social Work-Fa, Sp 3 hours

Available to all students. This course gives an introduction to the social work profession and a variety of fields of social work practice. It includes a study of the historical development and professionalization of social work. There will be an overview of the integration of faith and practice and the program's poverty focus. Crosslisted as SOC or SWK. (Fee: \$55) 2 hours

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: \$40)

SWK-2840 Concepts of Chemical Dependency-Sp 3 hours

Available to all students. Designed to investigate the concept of chemical dependency. Course emphasis is on the various drugs of abuse, and methods of assessment, intervention, and treatment. Crosslisted as CRJU, SOC, or SWK. Prerequisite: PYCH-1600 General Psychology; SOC-1300 Introduction to Sociology; or permission of the instructor.

SWK-2900 Ethics in the Helping Professions-Fa, Sp 3 hours

This course is designed to introduce the student to current issues and ethical dilemmas confronting professional helpers. The course encourages development of critical thinking skills by looking at dilemmas from a multifaceted point of view. Codes of ethics for the various helping professions are reviewed and emphasis is placed on understanding these codes. The course strives to provide the student a foundation in basic concepts of ethics and values, an understanding of the complexity of ethical decision making, and a sense of how their own values affect practice. The primary focus of this course is ethics, critical thinking, decision making, and self awareness. Crosslisted as SOC or SWK.

SWK-3010

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. (Fee: \$45)

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.

Course Descriptions SWK-3210 – SWK-4950

SWK-3210

Social Work Practice with Individuals and Families-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 and SWK-3440 Jr Field Experience I-Fa (Fee: \$120)

1 hour 3 hours

4 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 and SWK-3460 Jr Field Experience II-Sp (Fee: \$120)

1 hour 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

Course Descriptions

3 hours

This course provides an introduction to the conceptual and quantitative tools used to describe and interpret data in the conduct of social work practice and research. Students learn how to select, calculate, analyze, and interpret statistics applicable to common social work situations related to direct practice, administration and planning, and policy making. Students will be able to recognize the statistical impact that race, gender, age, sexual orientation and other relevant variables have on many psycho-social-spiritual variables during computer labs using SPSS statistical software and current GSS database. Prerequisite: admission to the social work program or permission of the instructor; students must have satisfied Cedarville's mathematics proficiency requirement before enrolling. 3 hours

SWK-3620 Social Work Research Methods-Sp Designed to survey the basic process of research methods as practiced in the social sciences. Underlying principles of science

and logic are emphasized and special attention is directed toward the recognition of common sources of error and bias in the implementation and interpretation of research studies as it affects the outcomes of research utilization. Students will be better prepared to recognize the impact of special population variables (age, race, gender, etc.) on the research process. Prerequisite: admission to the social work program.

SWK-4210

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; Appalachian; African Americans: Asian Americans and Pacific Islanders: American Indians; Mexican Americans; Hispanics and Puerto Ricans; and refugees and immigrants. Prerequisite: admission to the social work program. SWK-4220 4 hours

Social Work Practice with Communities and Organizations-Sp

Designed to complete the undergraduate program and thus equip the student for beginning professional social work practice. Focus is on competency in social work practice in multiple macro settings as a generalist in problem solving and social change. Prerequisites: admission to the social work program; SWK-4210 Social Work Practice with Special Populations. (Fee: \$65) SWK-4440 Special Topics-Social Work 1-3 hours

Investigation of specific topics in Social Science and History that have intrinsic worth and engage student interest.

SWK-4510 Senior Seminar I–Fa	2 hours
and SWK-4560 Senior Field Experience I–Fa	7 hours

These courses are coordinated with SWK-4210 Social Work Practice with Special Populations. This course offers students the opportunity to practice social work 16 hours weekly with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer feedback to their peers. Emphasis is placed on the integration of students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. Prerequisite: admission to the social work program. Corequisite: SWK-4510 and SWK-4560 must be taken together. (Fee: \$150) 2 hours

SWK-4520 Senior Seminar II-Sp and SWK-4570 Senior Field Experience II-Sp

7 hours These courses offer students the opportunity to practice social work 16 hours weekly, with professional supervision. A seminar is held two hours weekly in which students submit their own practice record for critical study and offer criticism to their peers. Emphasis is placed on the integration of the students' social work theoretical knowledge and skills as they enter the profession. Students must complete a minimum of 225 hours in field. Prerequisite: admission to the social work program. Corequisites: SWK-4520 and SWK-4570 must be taken together. (Fee: \$150)

SWK-4950

Independent Study in Social Work

1-3 hours

Provides the means whereby gifted and interested students may explore, in a more in-depth and intensive manner, general information acquired in the major courses. Further, independent study provides a logical way to complete required hours not obtained in normal sequencing. Prerequisite: permission of the instructor.

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. 2 hours

THMU-2320 Aural Skills IV-Sp

Advanced aural musicianship techniques: at-sight singing, melodic pattern recognition, and chord dictation within both diatonic and chromatic major and minor systems by "guide tone" numeric scale degree method. More advanced melodic, rhythmic, and harmonic dictation, including all tonal language, as well as some extended chromatic possibilities and introduction to the non-tonal tendencies of the 20th century. Prerequisite: THMU-2310 Aural Skills III. Corequisite: THMU-2220 Music Theory IV. 3 hours

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.

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

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

Theoretical study of the structure of musical forms presented by historical style period and corresponding analytical systems, continuation in Weber's traditional Roman numeral analysis, and introduction to Hindemith and Hanson's extended tonality techniques and 20th century methods, including atonal/serial designs of Schoenberg, Perle, and Forte. Prerequisites: THMU-2220 Music Theory IV; Thmu-2320 Aural Skills IV. (even years) THMU-4130 Orchestration-Fa 2 hours

Designed to develop skills in scoring music for various instrumental groups. Prerequisite: THMU-2220 Music Theory IV. (Fee: \$30) (odd years)

THMU-4140 Choral Arranging-Fa

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

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.

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)

Music Theory (THMU)

and rhythm. These elements will be explored with aural and written

components. These credits may not be substituted for any other

THMU-1220 Music Theory II-Sp

3 hours

2 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-1250 Contemporary Music Theory-Sp 2 hours

This class is designed to help the student understand the structure of contemporary music. The class will continue to develop written and aural musicianship as studied in Introduction to Music Theory and Aural Skills. Prerequisites: THMU-1010 Introduction to Music Theory and Aural Skills; consent of the instructor.

THMU-1310 Aural Skills I-Fa

2 hours

3 hours

3 hours

Introduction to techniques of basic aural musicianship, including singing, recognizing, and dictating intervals and chords within the diatonic major and minor systems by "guide tone" numeric scale degree method. Corequisite: THMU-1210 Music Theory I. THMU-1320 Aural Skills II-Sp 2 hours

Continued study of basic aural musicianship techniques: 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: THMU-1220 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

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

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-1010

music course. (Fee: \$30)

Introduction to Music Theory and Aural Skills-Fa An intensive study of the rudiments of music: notation, pitch,

THMU-3110 Jazz Theory-Sp

THMU-3500 Advanced Music Technology-Sp

3 hours

3 hours

2 hours

1-3 hours

Course Descriptions

Course Descriptions

THTR-1230 - THTR-3440

Theatre (THTR)

THTR-1230 Voice and Diction-Fa

3 hours

Designed to assist the student in strengthening and maintaining the speaking voice. Areas of study include voice physiology, effective breathing for speaking, voice quality, and articulation. A brief examination of major vocal problems is also given. THTR-1410 Introduction to Theatre-Fa 3 hours

Study of the history and development of theatre. Dramatic literature is considered a reflection of man and culture during various periods, dealing with philosophy, religion, and sociopolitical thought. A brief look at acting skills is also offered. THTR-1420 Introduction to Technical Theatre–Fa, Sp 3 hours

An overview course in all areas of technical theatre, including design. Intended to give the student a broad understanding of the basic principles and procedures used in the design of scenery, costuming, lighting, sound, and production management. Practicum required. (Fee \$45)

THTR-1430 Stage Movement-Fa

2 hours

This course will be an intensive practicum in theatrical stage movement designed for the individual with an interest in acting. Incorporate movement exercises that stress/correct use of the mechanical and anatomical components of human movement. Increased awareness of individual movement characteristics and the application of movement variations to character development will be emphasized and students will learn Laban Effort-Shape, Alexander Technique, and various improvisational movement techniques.

THTR-1440 Stagecraft I-Fa, Sp

1 hour

The class is designed to acquaint the student with selected elements of play production on a practical level. Students are assigned a project in an area of stagecraft such as properties, lighting, costuming, makeup, or set construction/decoration in relation to the mounting of a theatre production.

THTR-1450 Stagecraft II-Fa, Sp

1 hour

1 hour

Designed to give the student a production staff supervisory experience. Students are assigned an area of stagecraft in relation to the mounting of a theatrical production. Skills learned in Stagecraft I are further developed, and leadership responsibilities required. Prerequisite: THTR-1440 Stagecraft I.

THTR-1460 Theatre Participation-Fa, Sp

Students who participate in a communication arts-directed play may receive one hour of credit. Participation must occur over a minimum of four weeks of the rehearsal process. Credit may be applied only to the semester in which the participation occurs or the semester immediately following. Repeatable up to four hours. Credit/no credit. Prerequisite: permission of instructor.

THTR-1480 Play Production-Sp

3 hours

Provides an overview of the elements of play production (including direction, dramaturgy, design, producing, stage management, promotion, etc.). Through lecture and experience the student will be introduced to the practical aspects of producing a play. The ideas will be explored from a director's involvement with these elements. Stage work required. (Fee: \$50) 3 hours

THTR-2130 Dramatic Literature-Sp

Study of the historical development of dramatic styles, theory, criticism, and construction. Can be applied to meet English or speech requirements, but not both. 3 hours

THTR-2200 Introduction to Design-Fa, Sp

The class is designed to introduce the student to philosophies of design by studying the work of theatrical designers: scenic, costume, and lighting. A number of projects will explore basic elements of design. (Fee: \$50)

THTR-2350 Directing I-Fa

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. Prerequisite: THTR-1480 Play Production.

THTR-2410 Advanced Performance Techniques-Sp 3 hours

An advanced class in solo theatre performance where students learn performance techniques in monologues and monodrama. Special emphasis is placed on the solo presentation of multiple characters in both narrative and dramatic literature. Prerequisite: THTR-2430 Acting I or permission of instructor.

THTR-2430 Acting I-Fa, Sp 3 hours Study in the principle theories of realistic acting is balanced with practice in experiencing character creation. Principles of physical and emotional character development are explored.

THTR-2440 Stagecraft III-Fa

The class is designed to give the student an opportunity to work on the execution of an assigned design for the mainstage. The student may execute a set piece, costume, or lighting design. Prerequisite: THTR-1450 Stagecraft II. 3 hours

THTR-2450 Scenic Design-Sp

A theatre course that emphasizes the analysis and interpretation of scripts, use of research material, and techniques of presentation. Includes an introduction to the practices of drafting and modeling. Prerequisite: THTR-1420 Introduction to Technical Theatre. (Fee: \$55)

THTR-2460 Costume Design-Sp

3 hours Designed to provide the student with both theoretical knowledge and practical skills for designing costumes for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. Prerequisite: THTR-1420 Introduction to Technical Theatre. (Fee: \$50)

THTR-2470 Makeup Design-Fa, Sp

Designed to provide the student with both theoretical knowledge and practical skills for makeup design and execution for a theatrical production. Each student will develop this craft through individual projects and work on a mainstage production. (Fee: \$50) THTR-2510 Theatre of Social Change-Sp 3 hours

The nature of this course is to provide background in theory and practical work in areas of theatre that focus on efforts to work effectively on behalf of those who are politically, economically, behaviorally, or spiritually oppressed. 2 hours

THTR-3420 Theatre History I-Fa

An analysis of performative modes of a given culture within a historical study, reinforcing appreciation of the past and strengthening the understanding of one's own culture as well as different cultures. General survey of theatre history from the pre-Greek era to the present. Focus will be on prevailing philosophical orientation, major dramatists, theatre architecture and staging practices, styles of performance, costume design, innovations, and development.

THTR-3430 Theatre History II-Sp

Survey of staging practices and innovations from mid-17th century to present, with study of representative plays from each era.

THTR-3440 Stage Costume History-Fa

A general survey of western costuming for the stage from pre-Grecian to late twentieth century. This course provides an overview of the evolution of fashion as well as the social and cultural history affecting fashion change. (Fee: \$40)

3 hours

2 hours

2 hours

1 hour

Course Descriptions

THTR-3450 Stagecraft IV-Sp

The class is designed to give the theatre major with a design concentration an opportunity to work in the chosen area of their senior theatre project. The student will execute a design for a mainstage production and may assist in the design process. Prerequisite: THTR-2440 Stagecraft III.

THTR-3460 Acting II-Sp

3 hours

1 hour

Designed to build upon knowledge and training learned in THTR-2430 Acting I. Attention will be given to scene study, acting theory, and audition principles.

THTR-3470 Dramaturgy-Sp

3 hours

This course provides background in specialized theatre research for students interested in teaching theatre history, drama, dramatic literature, and directing productions at the secondary or college level.

THTR-3490 Stage Lighting Design-Fa

3 hours

The study of stage lighting theory and practice. Students will complete exercises in lighting design. Material covered includes basic electricity, equipment, and instruments. Practicum and stage work required. Prerequisite: THTR-1420 Introduction to Technical Theatre. (Fee: \$35)

THTR-3510 Directing II-Sp

3 hours

An advanced course exploring the direction of period plays and stylistic genres other than realism. Student projects might include one-act or full-length plays. Students will become familiar with influential contemporary directors and directing theories. Prerequisite: THTR-2350 Directing I.

THTR-3520 Scenic Painting-Sp

3 hours

This class is designed to introduce students to scenic painting techniques. The student will hone painting skills through class projects. Prerequisite: THTR-1420 Introduction to Technical Theatre. (Fee: \$75) 2 hours

THTR-3530

Techniques of American Musical Theatre-Fa

This class is designed to facilitate a knowledge base and application opportunities to gain skill in various choreographic styles associated with musical theatre performance. (Fee: \$45) THTR-3610 Educational Theatre-Fa,Su 2 hours

For Integrated Language Arts majors and theatre students

desiring a theatre elective. Provides background and experience in theatre games, improvisation techniques, and educational theatre productions for pre-K through grade 12. Includes role-playing, play therapy, and dramatherapy theory. Prerequisite: admission to teacher education program or Theatre major or permission of instructor. (Fee: \$25) 2 hours

THTR-3850

Seminar in Arts Administration and Arts Law-Sp

A seminar course providing background in arts administration and arts law, with significant research and presentation responsibilities for students. An overview of issues involved in the operation of arts organizations.

THTR-4400 Professional Preparation Seminar-Fa 2 hours

Prepares the senior theatre arts student for entry into the professional arts community and/or graduate study. Topics include audition/portfolio preparation and presentation, resume writing, interviewing techniques, graduate study/assistantship options, professional union affiliation, etc. (Fee: \$45)

THTR-4630 The Christian in Theatre-Sp 2 hours

The student will evaluate selected plays, both classic and contemporary, through a biblical perspective. The course addresses issues faced by the Christian artist regarding career choices and the challenges faced in contemporary theatre. THTR-4640 Special Topics-Fa, Sp 3 hours

Topics of specialized theatrical interest are examined on an 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 15 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)

Technical and Professional Communication (TPC) **TPC-2000** 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 and Mechanics for Writers-Fa, Sp, Su 3 hours Students will learn to apply reliable principles to make writing clear, concise, coherent, and cohesive. (Crosslisted with ENG 3010 Style and Mechanics for Writers) Prerequisite: ENG-1400 Composition.

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 and Mechanics for Writers; 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-2000 Production Tools for Technical Communication.

TPC-3130 Technical Communication-Fa

3 hours Students will learn to design and produce various technical documents and communication solutions for targeted audiences while exploring the technical communication profession. **TPC-3170** 2 hours

The Technical Communicator in a Corporate Culture-Sp

Students will discuss issues beyond intellectual ability and technical know-how that are crucial to a successful career. They will discover guidelines to assist them in improving their emotional intelligence capabilities. 2 hours

TPC-3180 Visual Rhetoric-Sp

Students will be given an overview of visual design principles and practices related to the field of technical communication. During the course, students will build their design acumen by reading widely and by participating (and leading) coherent, comprehensive discussions. Students will also practice their growing design expertise by critiquing various visual treatments, by writing a treatise on the Christian approach to visual communication, and by analyzing visual communication through the lens of a Christian worldview.

TPC-3210 - WSHP-4980

TPC-3210 Technical Editing-Sp

2 hours

Students will learn to develop style guides and edit technical documents or communication using conventional and electronic methods to ensure consistent grammar, style, visual design, and technical accuracy for end-users in targeted audiences.

TPC-3250 Design of Manuals-Sp

3 hours

Students will learn to plan, design, and write user manuals or documentation through systematic user analysis, task identification, effective writing, and efficient visual design elements.

TPC-3290 Proofreading-Su

2 hours

Students will learn to proofread using the techniques that professional proofreaders have found most practical and effective. TPC-4010 Designing Technical Reports-Fa 3 hours

Students will learn to design and write effective technical reports and presentations that purposefully convey clear, concise, and accurate information to a targeted audience while using an appropriate level of technicality and supporting data or information.

TPC-4020 Professional Portfolio Development II-Fa 1 hour Students will maintain a professional portfolio and learn to use it effectively to obtain employment after graduation. (Fee: \$25)

TPC-4050 Designing Online Information I-Fa 3 hours Students will learn how to design and manage information on the World Wide Web.

TPC-4090 Designing Online Information II-Sp 3 hours Students will learn to design and develop online help systems.

Prerequisites: TPC-4050 Designing Online Information I. TPC-4130 Instructional Design I-Sp 3 hours

Teaches technical communicators how to employ technology and learning theory in developing adult training courses. TPC-4140 Instructional Design II-Sp 3 hours

This course provides students with the opportunity to delve deeper into the art and science of instructional design by focusing on educational technology in general and e-learning tools, techniques, and practices specifically in use in today's corporate environment. The course also investigates the topics of knowledge management, performance support and human capital management in order to give students a well-rounded introduction to the contemporary practice of non-traditional instructional design. Prerequisites: TPC-4130 Instructional Design I or permission of instructor.

TPC-4160

5 hours

Technical and Professional Communication Internship-Su

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 jobrelated 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 and Mechanics for Writers 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.



Worship (WSHP)

WSHP-1010 Introduction to Worship Ministry-Fa 1 hour

This class is designed to be an introductory course to the field of worship ministry. It will provide the student with an examination of current practices in worship ministry, an overview of the worship degree at Cedarville, the character of a worshipper, the role of a worship leader, and career opportunities.

WSHP-1020 Introduction to Worship Technology-Sp 2 hours

This class is designed to be an introductory course to the field of worship technology. It will explore the basic technologies and concepts that are needed in worship ministry today, including audio, graphics, video, copyright, and ministry team building. WSHP-2100 Worship Forum-Fa, Sp 0 hour

A once-per-semester seminar designed to expose students to various aspects of worship ministry. The seminar may take the form of a lecture or masterclass. Crosslisted with CHMU-2100 Church Music Seminar. Prerequisites: worship major or permission of instructor.

WSHP-2200 Worship Field Experience-Fa, Sp, Su 1 hour Initial field experience in a local church or parachurch organization. Students are responsible for finding a place of ministry involvement to begin developing music ministry skills. Supervision will be provided by an on-site staff member. Prerequisites: worship major or permission of instructor. WSHP-3100 Worship Practicum-Fa, Sp 0-1 hours

This class is designed to help students refine their worship leadership abilities. Students will be given in-class and out-ofclass worship leading assignments. Current trends and advanced worship leading topics will also be discussed. Prerequisites: junior-level status; church music or worship major; or permission of instructor.

WSHP-4900 Worship Internship-Fa, Sp

9 hours

Intensive field experience in worship leadership. Place of service is determined by student interest, recommendation of supervising faculty, and by sponsoring organization (typically a local church congregation). Students must apply for internships and receive endorsement from the advisor and the chair of the department one academic semester before period of service and prior to registering. Students should check with their advisor for complete internship requirements. Prerequisites: seniorlevel standing as a worship major, approval by the advisor and department chair.

WSHP-4980 Special Topics in Worship

1-3 hours

This is a workshop for students interested in worship leadership and will be offered on a periodic basis depending on instructor availability and student interest. Contact hours will determine the amount of credit given. Prerequisite: topic dependent.

Financial Information

University Financial Operation Policy

The University keeps the application fee, tuition, room, board, and other fees as low as possible to be consistent with responsible operation. The revenue from students does not cover the total cost of operation.

Individuals and churches who desire to share in the preparation of young people for effective Christian service in all walks of life partially support the University. Some funds are received from interested businesses, industries, and foundations. Student costs as stated are subject to change upon reasonable notification by the University.

Student Costs

Tuition

*Regular tuition per semester credit	\$697
Audit tuition per semester credit	\$349
Pharmacy courses (PHAR) tuition per semester credit	\$767

Fees

Application fee\$30
Board per semester
Group A Meal Plans1,191
Group B Meal Plans1,078
Car registration fee per semester
Drop/add (course) fee5
Late payment fee
Late registration
Non returned / Lost room key50
New student fee
Commuting student – fall Semester
Commuting student – spring Semester70
Resident student – fall Semester
Resident student – spring Semester80
Returned item fee
Reservation deposit250
Room deposit (refundable upon withdrawal)
Room per semester1,370
Test-out fee per semester credit
*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.
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Summary of Costs

Institutional Costs

Estimated basic costs for the academic year of 2008-09 (excluding
transportation, personal expenses, books, and laboratory fees):
Tuition (based on an average of 32 semester hours)\$22,304
Board (Weighted average)2,266
Room2,740
Total Estimated Costs\$27,310

Miscellaneous Costs

Other yearly expenses may be estimated as follows:	
Books and supplies	\$900
Personal expenses (including clothing, recreation, and	
personal items) Note: laundry included with room	1,450
Transportation (based on area of residency)	. various

Financial aid may be available to help defray costs. See the Financial Aid section of this catalog for additional information concerning available funds and application procedures.

Financial Registration Policy

To enable the University to be responsible in meeting its financial responsibilities, students must make provision for the payment of their bill on the due dates established by the University each semester. A student's registration for classes indicates a commitment to pay for related charges as stated in the University catalog.

The following payment plan schedule was established to help students care for this responsibility:

	Fall 2009	Spring 2010
First Payment Due:	August 1, 2009	January 1, 2010
Second Payment Due:	September 1, 2009	February 1, 2010
Third Payment Due:	October 1, 2009	March 1, 2010
Fourth Payment Due:	November 1, 2009	April 1, 2010

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 online registration.

Making Payment

Students and parents may pay their University bill using several payment methods, including check, cash (in person), or online through our EZPAY system. For your protection, please do not mail cash.

Please send payments made payable to: Attn: Cashiers Cedarville University 251 N. Main Street Cedarville, OH 45314 *Please remember to include your student ID# and st

*Please remember to include your student ID# and student name on all checks. Payment by Internet, please visit: www.cedarville.edu/ezpay

For more information on payment options, visit the cashier's office website at www.cedarville.edu/cashiers.

Notification of the University Bill

Students who pre-register will receive an invoice based on their pre-registration schedule 20 to 30 days before the semester begins. You are responsible for making your payments by the due dates. A statement of the student account is generated each month that the account has activity. Invoices and student statements are sent to the student at his/her campus post office box unless directed otherwise in writing. Students wishing to have their invoices and statements sent to their home address may obtain a form from the cashier's office. You may view your student account history at any time by using CedarInfo and selecting "View your student account."

Invoices and Statements Online

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

Financial Information

Payment Penalties

Students who fail to make acceptable payment arrangements within a reasonable period of time will be denied access to the cafeteria and library until such arrangements are made. Students who do not make payments by the stated due dates will be charged \$25. Students with unpaid balances at the end of the semester may be denied, grade reports, transcripts, diploma, or enrollment in the next semester. Students with past due accounts will also be responsible for any fees incurred in the collection of their past due account.

Interest Rates

An annual interest rate of 13% (1.083% per month) will be charged during the academic year on accounts of current students. An annual interest rate of 15% (1.25% per month) will be charged during the academic year on accounts of students no longer enrolled and on all student accounts during the summer months.

Prepayment Incentive Credit Plan (PIC-Plan)

This plan enables a student to earn interest on their student account that has a credit balance of \$500 or more on the first day of the calendar month. The PIC-Plan account and the student account are one and the same. PIC-Plan interest is taxable and anyone earning \$10 or more in interest will receive a 1099-INT form. Please call 937-766-7665 for the maximum deposit amount and the current interest rate.

Withdrawals From a Student Account

A student may withdraw cash from their student account during the semester, provided they have a credit balance. Cash withdrawals may not exceed \$50 per week. No more than two cash withdrawals may be made per week. Withdrawals of amounts greater than \$50 are issued by check; requests can be made by contacting the cashier's office or using CedarInfo by selecting **Request a check from your student account under Financial Transactions**. Checks are issued within two to three business days of the request.

Student Health Insurance

Due to increasing complexities in dealing with Health Maintenance Organizations (HMOs) and the many and varied Preferred Provider Plans (PPPs), medical insurance is provided for all students taking six or more credits at no additional cost. Students taking less than six credit hours may purchase the Student Health Insurance Plan. Married students may also purchase the Student Health Insurance Plan for their spouse and dependants. For more details, please contact the student health insurance coordinator at 937-766-7864, visit online at **www.cedarville.edu/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. No refunds are available after the deposit deadline date. Reservation deposit deadlines are as follows:

Term	Deadline
Fall Semester	May 1
Spring Semester	Nov. 1
Summer Session I	April 15
Summer Session II	May 15
Summer Session III	April 15
Summer Session IV	June 1

Continuing Student Reservation Deposit Refund

Full (100%) refunds will be made to continuing students who notify the University by June 1 of their intent to withdraw. If a continuing student notifies the University between June 2 and July 1 of his/her intention not to return fall semester, \$150 of his/her deposit will be refunded. No refunds will be made after July 1.

Withdrawal Refunds

Tuition and Science Laboratory Fees

Students withdrawing from the University before the end of a semester may request a refund from the cashier's office. Refunds may be requested anytime after the beginning of a semester. The effective date of the withdrawal from the University is the last day of class attendance as determined by the office of the registrar.

Processing of refunds will begin the third week of the semester. Tuition and science laboratory fee refunds for withdrawal are granted on this schedule:

Refund	Fall 2009	Spring 2010
100%	thru Aug. 28	thru Jan. 15
75%	thru Sept. 4	thru Jan. 22
50%	thru Sept. 11	thru Jan. 29
25%	thru Sept. 18	thru Feb. 5
No Refund	after Sept. 18	after Feb. 5

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:

- Federal Pell Grant 1.
- 2. Academic Competitiveness Grant
- 3. National SMART Grant
- 4. Federal SEOG Grant
- 5. Federal Perkins Loan
- 6. Federal Stafford Loans
- 7. Federal Parents PLUS Loan
- 8. Federal TEACH Grant

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% 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% point, then the amount is 100%.

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
- Federal Perkins loans 3.
- 4. FFEL PLUS loans
- 5. Federal Pell grant
- Academic Competitiveness Grant 6.
- 7. National SMART Grant
- 8. Federal SEOG grant
- 9. Federal TEACH Grant

Veterans Training Benefits and Dependents Educational Assistance

Cedarville University is approved under Title 38, Chapters 30, 31, 32, 33, 35, 1606 and 1607, US Code for Education of Veterans and their Dependents. Students under Chapters 30, 32, 35, 1606, and 1607 are required to pay the school for all charges. The Veterans Administration in turn pays them a monthly allowance based upon their training load. Veterans under Chapter 31 are paid a monthly allowance and the Veterans Administration pays the school for tuition, fees, books, and supplies.

Inquiries concerning eligibility should be directed to the contact office of a Veterans Administration Regional Office. Students planning to study under one of the education laws should receive approval prior to enrolling. A Veterans Administration training officer will contact the University in the disabled cases to accomplish this requirement for the student.

Cedarville University students eligible for veterans benefits should contact the veterans benefits counselor in the office of the registrar.

Deferred Payment Plan for Veterans

For Option Deferred Payment Plan for Veterans (under chapters 30, 31, 32, 33, and 35) receiving the Educational Assistance Allowances, consult the office of the registrar.

Payments by veterans receiving their Educational Assistance Allowance checks one month behind will be as follows:

Fall Semester:	1st payment by 10/1
	2nd payment by 11/1
	3rd payment by 12/1
	Final payment by 1/1
Spring Semester:	1st payment by 2/1
	2nd payment by 3/1
	3rd payment by 4/1

Final payment by 5/1 A late payment charge of \$25 is applicable for accounts unpaid after the payment due date.

Veterans receive eight monthly VA checks that must pay for eight deferred payments on the semester system.

Financial Aid

Financial Aid

When completing the FAFSA, the Title IV Code for Cedarville University is 003025.

General Information

Cedarville University offers a variety of financial aid programs to assist students with education-related expenses. Although Cedarville University supports the premise that the primary responsibility for financing a college education rests with the student and family, aid programs are available to supplement personal resources.

Some of the financial aid available at the University is considered to be *need-based aid*. Students are asked to complete the Free Application for Federal Student Aid (FAFSA) and submit the form to the Central Processing Center. The FAFSA should be submitted to the central processor by February 10, but not before January 1 preceding the academic year for which aid is being requested. It is not necessary to have filed your federal taxes before completing your FAFSA. Estimated data can be used. An analysis of the family's financial data is performed and the results are used to determine the eligibility for need-based assistance. New aid applicants may obtain the FAFSA from their high school guidance counselor or from the Cedarville University Financial Aid Office. For filing online, obtain a PIN number for **both** the parent and student at **www.pin.ed.gov** 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, forensics, theatre, and debate.

The financial aid office serves as a resource center to assist students and their families in exploring alternative sources of educational funding. The financial aid homepage has direct links to several scholarship databases. Students are encouraged to investigate privately-funded scholarships through the use of the Internet and accessing www.cedarville.edu/finaid.

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 gualifications 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/finaid** 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. 75% tuition award (\$16,728 in 2009–10), renewable with 3.5 GPA.
- National Scholar Award Students selected as National Merit or National Achievement Finalist or Semi-Finalist. 50% tuition (\$11,152 in 2009–10), renewable with 3.5 GPA.
- President's Scholarship Students who score 30 or higher on the ACT. \$5,000 award, renewable with 3.5 GPA.

- Faculty Scholarship Students who score between 25-29 on the ACT. Award amounts range from \$3,000-3,500, renewable with 3.2 GPA.
- Cedarville Academic Scholarship Awarded to upperclassmen (sophomore, junior, or senior) with demonstrated need and a 3.2 Cedarville GPA. Awards are \$500-3,500.
- African-American Scholarships These merit and needbased scholarships range from \$2,000-5,000.
- Hispanic Scholarships These merit and need-based scholarships range from \$2,000-5,000.

Effective Leader Grants

Effective Leader grants are competitive scholarships that are awarded for outstanding leadership experience. Awards are \$1,000-2,000.

Other Grants

- Christian Medical and Dental Society Scholarship One time grant of \$1,500
- Home school/Leader Scholarship One time award of \$750-2,000
- Jack Wyrtzen Scholarship Awarded to graduates of Word of Life Bible Institute with a GPA of 3.25. Awards are \$1,000-3,000.
- Inter-Cultural Scholarship A need-based grant for multicultured students
- Student Government Grants Grants for the elected officers of the student body government
- Future Generations Scholarship One-time scholarship for new students whose parents or grandparents graduated from Cedarville University
- Ministry Grant A renewable, need-based grant ranging from \$400-2,200 will be offered to students who have a parent employed in full-time vocational ministry (pastors, missionaries, Christian educators, etc.). Need will be determined after other institutional, state, and federal grants are applied. A cumulative Cedarville GPA of 2.5 or above is required for renewal.
- Legacy Grant A renewable, need-based grant ranging from \$400 to \$2,200 will be offered to students who have a parent or sibling who is an alumnus or who have a sibling currently enrolled at Cedarville University. Need will be determined after other institutional, state, and federal grants are applied. A cumulative Cedarville GPA of 2.5 or above is required for renewal.
- Church Matching Grant Cedarville University will match up to \$1,000 for students enrolled full time at Cedarville University who receive a scholarship from their local church. The Church Matching Grant application must be received along with the church's scholarship check.

Department Grants

- Athletic Contact the athletic department or coach
- Business Administration Contact the Department of Business Administration.
- Communication Arts Contact the Department of Communication Arts.
- Geology Contact the Department of Science and Mathematics.
- Music Contact the Department of Music, Art, and Worship
- Pharmacy Contact the School of Pharmacy.
- Worship Contact the Department of Music, Art, and Worship

State Grant Programs

Ohio College Opportunity Grant

Students who are residents of Ohio and have an expected family contribution of less that \$2,190 as calculated on the FAFSA are eligible for the Ohio College Opportunity Grant. Application can only be made through the completion of the FAFSA. The filing deadline is October 1.

The state of Ohio has not finalized the payment schedule for 2009–10. For the latest information please visit our website at **www.cedarville.edu/financialaid/Ohio+Programs**.

Specific information from the Ohio Board of Regents about the Ohio College Opportunity Grant is available at http://regents.ohio.gov/sgs/ocog/.

For additional information about all the Ohio student aid programs visit the Ohio Board of Regents website at http://regents.ohio.gov/sgs/index.php.

Ohio Air National Guard Tuition Assistance Program

This program assists Ohio National Guard members who are full-time students, at least 17 years old, and enlisted for a period of six years. Up to eight semesters of instructional and general fees will be paid for the student. After basic and specialty training, guardsmen meet one weekend a month and two weeks during each summer. In addition to the tuition assistance, the time spent on duty is paid according to rank. Both men and women are accepted into this program, and proof of financial need is not a requirement. For more information, call collect 937-323-6704 or write to: Ohio National Guard, Educational Opportunities, 2825 West Granville Rd., Worthington, OH 43085.

Ohio War Orphans Scholarship

This scholarship is awarded to students who are children of deceased or disabled veterans. The student must be enrolled full-time and be making satisfactory academic progress. For more information, contact the Ohio Board of Regents, Student Assistance Office, Ohio War Orphans Scholarship, 3600 State Office Tower, 30 East Broad Street, Columbus, OH 43215.

State Grant Refund Policy

Students who qualify for state grant funds must be registered for at least 12 credit hours per semester in order to receive benefits. Students withdrawing or dropping below full-time status during the semester will have their grant payments adjusted according to grant refund policy. Questions pertaining to refund policy should be directed to the financial aid office.

Other State Grants

Students from the following states may be eligible for state grant programs. Contact your state's higher education authority for eligibility criteria. The first step in applying for a state grant is to complete the FAFSA.

- Pennsylvania 1-800-692-7392
- Rhode Island 1-800-736-1100
- Vermont 1-800-642-3177
- Maryland 1-800-974-1024
- Delaware 1-800-292-7935
- Michigan 1-888-95-MERIT

Federal Grants

Federal Pell Grant

A student who is a United States citizen, or who is in the United States for other than a temporary purpose and intends to become a permanent resident, or who is a permanent resident of the Trust Territories of the Pacific Islands or of the Northern Mariana Islands, may be eligible for a federal grant through the department of education. All students with financial need are encouraged to apply for this grant by using the FAFSA.

Students who meet the Pell eligibility requirements and have an expected family contribution of \$4,617 or less as calculated on the FAFSA are eligible for a Pell Grant. Grants currently range from \$976-\$5,350 per year.

All awards are based on full-time enrollment (12 hours or more). Students who enroll for fewer than 12 hours will have their awards prorated according to the following schedule:

12 hours or more = Full award

- 9-11 hours = 3/4 award
- 6-8 hours = 1/2 award
- 1-5 hours = Partial award Federal Pell Grant only

Academic Competitiveness Grant (ACG)

The Academic Competitiveness Grant provides up to \$750 for the first year of undergraduate study and up to \$1,300 for the second year of undergraduate study to full-time students who are US citizens, eligible for a Federal Pell Grant, and who have successfully completed a rigorous high school program, as determined by the state or local education agency and recognized by the Secretary of Education. Second year students must also have maintained a cumulative grade point average (GPA) of at least 3.0. The program will be available for the first time for the 2006-07 school year for first year students who graduated from high school after January 1, 2006, and for second year students who graduated from high school after January 1, 2005. The Academic Competitiveness Grant award is in addition to the student's Pell Grant award.

National Science and Mathematics Access to Retain Talent Grant (SMART)

The National SMART Grant provides up to \$4,000 for each of the third and fourth years of undergraduate study to full-time students who are US citizens, eligible for a Federal Pell Grant, and pursuing the specified majors in physical, life, or computer sciences; mathematics; technology; or engineering; or a foreign language determined critical to national security. The student must also have maintained a cumulative grade point average (GPA) of at least 3.0 in coursework required for the major. The National SMART Grant award is in addition to the student's Pell Grant award.

Federal Supplemental Educational Opportunity Grant (SEOG)

A Federal grant for the Department of Education that is awarded to students with exceptional need. Exceptional need is described as being eligible to receive a Pell grant. However, due to limited funding, being Pell-eligible does not guarantee SEOG eligibility. The maximum SEOG grant at Cedarville University is \$1,000.



Financial Aid

Teacher Education Assistance for College and Higher Education Grant (TEACH)

The TEACH Grant provides up to \$4,000 per year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. The TEACH Grant has conditions which must be met, otherwise the grant is converted into a direct unsubsidized Loan. The following websites provide the full details for the TEACH Grant: http://studentaid. ed.gov/PORTALSWebApp/students/english/index.jsp

United States Military Scholarships

Army Scholarships

Two, three, and three and one-half year scholarships are available for students who enroll in Army ROTC. These scholarships pay all tuition, fees, and textbooks, plus \$250-\$400 per month for 10 school months per year. For additional information, contact the professor of military science at Central State University, Wilberforce, OH 45384 (937-376-6657 or 937-376-6279), or call Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

Army National Guard Scholarships

These scholarships pay up to \$1,000 per school year and are available for those who qualify. Additional information pertaining to these scholarships is available from the professor of military science at Central State University, or from Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

Air Force Scholarships

Air Force ROTC scholarships are available, paying for the cost of tuition, fees, and textbooks, plus \$150 per month for 10 school months, to students who demonstrate academic and leadership potential. Students interested in Air Force ROTC should contact the Department of Aerospace Studies, Wright State University, Dayton, OH 45435 (937-775-2730), or call Adrian Davoli, assistant registrar at Cedarville University, at 937-766-7712.

Special Institutional Grant and Scholarship Funds

Alumni and other people who have a special interest in the growth and progress of Cedarville University have generously donated funds to help defray educational expenses of students who have special and exceptional financial needs. These funds, which are listed below, are for the most part under the control of the director of financial aid, who determines who is eligible and the award that will be provided according to specific guidelines for each fund. The minimum cumulative GPA necessary to obtain assistance from these funds is 2.0 unless otherwise stipulated by the donor.

Most of our institutional grant and scholarship agreements require students to be full-time (12 hours) in order to receive an award from the endowment funds. If attendance status is not addressed in the endowment document, the following adjustments will be made:

12 hours or more = Full award

6-11 hours = Prorated

less than 6 hours = No award

- 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 and theological studies who are interested in fulltime Christian service as a career. Provided by the families of Mead and Bryan Armstrong.

- 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.
- Mendell Beattie Memorial Scholarship Heritage Alumni and Cedarville College athletes established this scholarship in honor of their beloved Cedarville College coach, Mendell Beattie. Recipients must be members of the men's varsity baseball or basketball team and must demonstrate financial need. Recipients are selected by the Varsity Baseball and Basketball coaches and the director of financial aid.
- 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 Established in 1994, this endowed scholarship assist graduates of Bakersfield Christian High School, Bakersfield, California. The minimum scholarship amount is \$2,000. The maximum is 50% of average tuition, room, and board. Financial need will be considered in determining the scholarship amount. Candidates must complete an application to document eligibility. The Director of Financial Aid selects the recipients.
- **DeLois C. Brown Family Love Scholarship** Given to students pursuing an undergraduate degree in any academic program. Student must demonstrate financial need according to criteria established by Cedarville University.
- Joseph and 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.
- Misty Carlson Memorial Scholarship Preference is given to students from single parent homes. The Director of Financial Aid selects the recipients. This scholarship was established by John Carlson in loving memory of his wife Misty '02 who died suddenly in 2005. Recipients must be Social Work majors with financial need.
- Cedarville University Memorial Endowment Given to full-time students who demonstrate financial need.
- **Christian Education Scholarship** Given to students pursuing an undergraduate degree in education. Recipients must desire to teach in Christian elementary or secondary institutions, have a cumulative GPA of 3.3, and demonstrate exceptional ability in the field of teaching. Preference given to students who demonstrate financial need according to criteria established by Cedarville University.
- The Christian Ministry Scholarship Fund Granted to full-time Bible majors with priority given to students whose parents are not in full-time Christian ministry and who have cystic fibrosis or a learning disability.
- David H. and Edith W. Clark Scholarship Fund Awarded to students with financial need who have completed one year at Cedarville and have a GPA of 2.5 or above. Students may receive this scholarship for up to three years.
- **Compton/Knight Family ROTC Scholarship** Recipients must be pursuing a degree under the Department of Nursing or Department of Engineering. Preference is given to students who demonstrate financial need and who achieve an SAT composite of 1260 (Math and Verbal portion only) or ACT composite of 28. The Director of Financial Aid, in consultation with ROTC recruitment personnel, selects the recipients.

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.

Established by Harland and Pauline Knight in 2006, this scholarship assists freshmen involved in the Reserve Officer Training Corps (ROTC) program

- **Compton/Knight Family Music Scholarship** Given to students who demonstrate extraordinary potential to excel as classroom teachers for vocal and/or instrumental music. Recipients must have a minimum GPA of 3.5 and have completed at least one year of study at the University. Established by Harland P. and Pauline G. Knight.
- 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 organizationsponsored missions trip or internship during the previous summer break.
- The Criminal Justice Scholarship Awarded to a senior criminal justice major who is involved in Christian service and demonstrates exemplary Christian character and financial need.
- Minor and Bernice Cross Endowed Scholarship Fund Given to students who demonstrate financial need. Preference is given to members in good standing of Faith Baptist Church, 2220 Western Ave., Matton, Illinois, or missionaries supported by that church.
- Richard C. Davis Family Scholarship Given to sophomore, junior, or senior students pursuing an undergraduate degree in any academic program who have attended Cedarville University for at least one academic year.
- Doris Yvonne Dell Memorial Scholarship Established by Bernard Dell in loving memory of his wife, Doris Yvonne Dell, this 4-year scholarship assists first-year students who are preparing for service in Church Music Ministry. The department of music, art, and worship faculty coordinate scholarship auditions and make the final selection. If the student continues to pursue a career in Church Music and maintains satisfactory academic performance, the scholarship will be renewed every year, up to a maximum of four years.
- **Robert Duchardt Athletic Training Scholarship** Recipients must demonstrate exceptional commitment to the study of athletic training through their academic achievements and extra-curricular participation. Alumni and friends of the University established this endowed scholarship in 2008 to honor Robert Duchardt and to assist junior and senior students who are pursuing careers in the field of athletic training.
- Willis F. Early Business Scholarship For training Christian students in business. Given to students majoring in business. Established by Richard Early as an endowment in memory of his father, Willis F. Early.
- Betty J. Early General Scholarship Awarded to a student pursuing a bachelor's degree in any academic program except business. This scholarship is provided by Dr. and Mrs. Richard Early.
- **Elementary Education Scholarship** Established in 2008, this scholarship assists female students with financial need who are pursuing a career in the field of Elementary Education. The Director of Financial Aid selects the recipients.
- 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 and 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.
- **Roger W. Eltzroth Scholarship** Established by the estate of Roger Eltzroth, this endowed scholarship assists students who desire to serve in full-time ministry. Recipients must be sophomore, junior, or senior students who are pursuing an undergraduate degree under the department of Biblical and theological studies. Recipients must maintain a GPA of 2.5 or above and demonstrate financial need. The director of financial aid selects the students.
- 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.
- 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.

- Wilson and Evelyn Galbraith Memorial Fund Established by bequest from the estate of Wilson and Evelyn Galbraith, this grant assists students with significant financial need. The director of financial aid selects the recipients.
- Lewis P. Gallagher Scholarship Fund Given to students from the state of Maine who have been residents of the state of Maine for five or more years. Preference given to members of Berean Baptist Church, Brunswick, Maine. Provided by the Lewis P. Gallagher Family Foundation. Students must complete an application for this scholarship.
- **S. Margaret Gallagher Scholarship** Awarded to qualified nursing majors. Provided by the Lewis P. Gallagher Family Foundation.
- GAR Foundation Scholarship Fund Awarded to full-time students who demonstrate financial need.
- GAR Foundation Summit County Scholarship Given to students who reside in Summit County, Ohio.
- Gershom Scholarship Established by James and Judy Hanna, this scholarship assists children of full-time missionaries. Recipients must have a composite SAT (verbal/math) of 1050 or an average composite ACT of 22, and must maintain a GPA of 3.0 or above. Preference is given to families currently serving in the Middle East. The director of financial aid selects the recipients.
- 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 Gugger Scholarship Fund Awarded to students selected by the University Administrative Council.
- Frank O. Harris Memorial Scholarship Given to children of full-time missionaries who have significant financial need and a GPA of 2.5 or above. The scholarship was estabilshed by Gilbert and Billye Gallagher in loving memory of Billye's father, Frank O. Harris.
- Helping-Hand Endowed Fund Given to deserving and needy students. Established by Miss Mabel Irvin Walker.
- William and Cora Norman Henry Endowed Memorial Scholarship Fund Given to full-time students majoring in elementary education who demonstrate financial need. Preference is given to students from Clark County, Ohio. Provided by Geraldine Henry.
- The Heritage Baptist Church Scholarship Given to members of Heritage Baptist Church, Lakeland, Florida, who are recommended by its pastor or pastoral staff. Applicants/recipients must submit a paper by July 1 each year detailing their spiritual goals for the coming year. Must have a GPA of 2.5 or above.
- Holmes Family Scholarship Preference given to graduates of Dayton Christian High School, Dayton, Ohio, demonstrating financial need. Endowment provided by Richard and Carole Holmes.
- Edward B. and Fauna B. Holmes Nursing Scholarship Richard and Carole Holmes established this scholarship in 1994 to honor of Edward and Fauna Holmes. The scholarship is awarded to full-time nursing majors with a commitment to nursing and a capacity to contribute to the nursing profession. The Nursing Department Chair selects the recipient.
- Richard E. and Carole C. Holmes Engineering Scholarship This scholarship was established in 1994 by Richard and Carole Holmes. The scholarship is awarded to a full-time engineering major with a demonstrated commitment to engineering and a capacity to contribute to the profession. The Financial Aid Director and the Engineering Department Chairs selects the recipients.
- 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 US citizens and who hold an F-1 student visa. Financial need is a consideration.
- Jersey Baptist Church Scholarship Given to members of Jersey Baptist Church, Pataskala, Ohio, who demonstrate a passion for Christian

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ministry and who have accumulated student loan debt. Second consideration will be given to other members of Jersey Baptist Church. Final consideration will be given to students who are not members of Jersey Baptist Church but demonstrate a passion for Christian ministry and have accumulated student loan debt. Students may be pursuing an undergraduate degree in any academic program.

- Jewels for Students Scholarship Benefits junior or senior students who demonstrate an inability to pay for a significant portion of their educational expenses, in spite of exhausting all traditional forms of financial aid, including scholarships, grants, and federal student loans. Provided by Mrs. Brittany Napier.
- 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 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 Awarded to a student entering the 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. Students accepting the sponsorship will agree to employment terms with KMC upon graduation.
- Kittyhawk AOC Chapter Scholarship Awarded to a junior or senior majoring in the engineering and/or computer/information science field. Recipients must possess appropriate academic and professional credentials and demonstrate financial need. The recipients must not have any aversion to defense-related activities or accepting a scholarship from a defense-related activity. This scholarship is provided by the Kittyhawk Chapter of the Association of Old Crows, which is an international professional organization comprised of academic, government, and industry personnel dedicated to the preservation and advancement of Defensive Electronic Countermeasures.
- Ruth Counter Klopfenstein, R.N. and A. Rees Klopfenstein, M.D. Nursing Education Endowment Given to students pursuing an undergraduate degree in nursing. Recipients must meet one of two sets of criteria: junior with an overall GPA of 2.75 and 3.0 in basic sciences and senior with an overall GPA of 2.75 and 3.0 in professional nursing courses. Both recipients must demonstrate maturing Christian character in their personal and professional life and a commitment to and love for the nursing profession.
- **Dr. Donald F. Kyle Memorial Scholarship** Recipients must be sophomores, juniors, or seniors pursuing a degree in any academic program. Preference will be given to students pursuing a career in a medical or health-related field. To qualify, students must have a cumulative GPA of 3.25, preference givne to 3.5 or above. Preference will also be given to residents of the State of Ohio. The Financial Aid Director selects the recipients. Funded by the estate of Dr. Kyle, the University established this scholarship in 2007 to honor the wellknown local physician, Donald F. Kyle, who served Cedarville and the surrounding community.
- 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.
- 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 memory of his father, 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 McQuinn Family Scholarship To assist students whose parents are in full-time Christian ministry. Qualified ministries include the pastorate, missions, Christian elementary and secondary education. Recipients must demonstrate significant financial need and have a cumulative GPA of at least 2.5. The Director of Financial Aid selects the recipients. Larry and Marilyn McQuinn established this scholarship in 2008.
- **MK Scholarship** 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 William and Jean Meahl Scholarship Fund Granted to a Cedarville High School graduate who pursues an elementary or secondary education degree and maintains a GPA of 3.0 or above. The student is eligible beginning the freshman year and must demonstrate financial need.
- **Mephibosheth Scholarship Endowment** Given to students who have a physical impairment that is likely to continue indefinitely. Preference given to those who have an impairment that makes employment during the academic year less likely. Given to students pursuing an undergraduate degree in any academic program. The endowment is provided by the late Peter DeKorete, a successful businessman who himself had a physical disability.
- **Dwight L. Morris and Marguerite J. Morris Scholarship** Given to students who are pursuing an academic program in accounting and who demonstrate financial need. Endowment established through the Marguerite J. Morris Trust.
- The Nashville Baptist Church Scholarship Fund Given to students who demonstrate financial need. First priority is given to residents of Brown County, Indiana. Second priority is given to residents of Baptist Children's Home in Valparaiso, Indiana.
- 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.
- Ervin J. Nutter Memorial Scholarship Established by the Ervin J. Nutter family, this scholarship assists junior and senior students who are pursuing careers in the field of Mechanical Engineering. Recipients must demonstrate financial need. The director of financial aid selects the recipients.
- Pastoral Studies Scholarship The grantors established this fund to reduce the student loan debt of exceptional students who are preparing for service in the pastorate. Recipients must be seniors who are preparing for service in the pastorate. Recipients must have accumulated loan debt and demonstrate exceptional ability and passion for pastoral studies. Preference is given to students who are planning to attend seminary. The department of biblical and theological studies faculty and the director of financial aid select the recipients.
- 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 and 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.
- Dan Poole Broadcasting Award Given to students pursuing an undergraduate degree in broadcasting who are actively involved with the University student radio station.
- Derek Richardson Memorial Scholarship Fund Kendall and Susan Richardson established this scholarship in memorial to their son, Derek Richardson, who died tragically in an auto accident in 2005 while enrolled at the University as a sophomore. This scholarship assists sophomore students who demonstrate financial need and who are enrolled in the University ROTC program. Recipients must have the attitude, aptitude and character to succeed as an Air Force officer. Recipients selected should reflect the character of Cadet Derek Richardson, succeeding physically and academically, and being more concerned for the well being of others than themselves. Recipients must

have a record of public/social service both within and outside the Air Force ROTC program. The Air Force ROTC detachment commander and the Cedarville ROTC liaison select the recipients.

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 fulltime Christian service.
- Mike and Amy Shane Scholarship Given to members in good standing of Calvary Baptist Church, Bakersfield, California; employees or children of employees of the grantors or their immediate family; or citizens of the People's Republic of China.
- James A. Smith Elderly Compassion Memorial Scholarship Given to students pursuing an undergraduate degree in any academic program. Student must demonstrate a passion for serving the elderly community through Christian service or career aspirations.
- Jane Adams Smith Memorial Scholarship Given to students pursuing an undergraduate degree under the department of Psychology. Recipients must have completed at least one year at Cedarville University.
- 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.
- Al and Joanna Stevens Scholarship Given to students pursuing an undergraduate degree in any academic program. Recipients must be children of full time employees of Opex Corporation, Moorestown, NJ.
- **Dr. Daniel C. Stevens Memorial Scholarship** Awarded to advancing sophomores or juniors majoring in Christian Education. Must be routinely faithful in exhibiting the biblical triad of faith, hope, and love. This award is given by Mrs. Suzanne Stevens in loving memory of her husband and Cedarville University faculty member, Dr. Daniel Stevens.
- Esther C. Gilbertson-Stone Given to preministerial or ministerial students with moral character, academic potential, and demonstrated financial need.
- Stuck Memorial Endowed Grant Fund Given to eligible students. Established in memory of Jim Stuck.
- Student Body Loan and Grant Fund Given to qualified students with financial need. Provided by the student body.
- Dave Taylor Memorial Scholarship Given to sophomore, junior, or senior students pursuing an undergraduate degree in any academic program. Recipients must be children of full-time missionaries serving in a foreign country. This scholarship is endowed by friends and classmates of Dave Taylor, class of 1964.
- Phillip L. and June W. Taylor Scholarship Endowment Established by bequest through the estate of Philip and June Taylor, this scholarship assists students who are preparing for service in missions or business. Recipients must have completed at least one academic year at Cedarville. Preference will be given to students who demonstrate financial need. The director of financial aid selects the recipients.
- Jonathan Taylor (J.T.) Honorary Scholarship The Class of 2007 established this endowed fund in honor of their classmate Jonathan Taylor (J.T.), a leader among students in service and academics. The scholarship assists senior students who reflect J.T.'s distinctive character—one who is marked by a quality of excellence and spiritual maturity in all of their endeavors at the University. Recipients must serve in leadership roles within the student body and demonstrate financial need. Preference will be given to students who have a GPA of 3.0 or above. The director of financial aid and members of the student life division select the annual recipients.
- Theta Rho Epsilon Scholarship Awarded to a student pursuing a bachelor's degree in any academic program. Students who have a cumulative grade point average closest to 2.75 during the spring term of their junior year and who do not qualify for other forms of merit-based scholarships will be considered for the scholarship.
- The Cal Thomas Scholarship Fund Given to students who have the intention of and the competencies to influence the media for Christ.
- Edward J. and Melvina W. Thompson Memorial Scholarship Given to full-time sophomores, juniors, and seniors of any major who demonstrate financial need and maintain a GPA of 3.0 or above.

- **Theodore R. and Helen Thoren Memorial Scholarship** This endowed scholarship assists students with financial need who are pursuing degrees under the Department of Engineering and Computer Science. The director of financial aid selects the recipients. Established by the estate of Theodore R. and Helen Thoren in 2009.
- 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 and 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.
- Samuel L. Westerman Foundation Scholarship Established by the Samuel L. Westerman Foundation, this endowed scholarship assists junior and senior students who are pursuing careers in nursing or special education and who engage in volunteer work at the University or in the community. Recipients must maintain a GPA of 3.2 or above and demonstrate financial need. Residents of Michigan will be shown preference. The director of financial aid selects the recipients.
- 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 division.
- **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

- AFCEA Scholarship The Dayton-Wright Chapter of the Armed Forces Communication and Electronics Association (AFCEA) sponsors this scholarship. Recipients must be pursuing studies in electrical engineering, data communications, information technology, computer engineering, hard physical sciences (such as physics, chemistry, mathematics, etc.) and C4I (command, communications, computers, and intelligence.) Selection criteria emphasize academic performance, leadership, and involvement in electrical engineering organizations. Recipients of this award are nominated and selected by department faculty.
- Dr. and Mrs. Merlin Ager Education Award Given to a senior majoring in education; preference given to those planning to teach overseas. The

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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 Amstutz Nursing Award This endowed annual award is granted to a deserving junior majoring in nursing and has been provided by Mr. Myron E. Amstutz. This student must demonstrate academic excellence and commitment to a nursing career and be involved in activities that strengthen nursing at Cedarville University.
- Anderson Family Scholarship Fund Granted to a female student with a foreign language concentration and a 3.0 GPA. Provided by Mr. and Mrs. Robert J. Anderson.
- The Arline Littleton Autio Award Given to a last-semester elementary education senior who intends to pursue a career in public school education. General and Mrs. Clyde Autio endow the award in loving memory of and in gratitude for the life and educational ministry of General Autio's mother, Arline Littleton Autio.
- Nathan R. Arnold Accounting Award Given to sophomore or junior accounting majors who have a minimum GPA of 3.5 and demonstrate exceptional Christian character. Established by Robert and Brenda Arnold in honor of their son, Nathan, a 2005 Cedarville graduate.
- The John W. Bickett Alumni Scholarships Given to juniors and seniors preparing for pastoral or missionary service and planning to continue their education in seminary or language studies. Provided by Heritage Alumni.
- Shari Boblitt Family Memorial Award Given to a graduating senior who is pursuing a post-graduate degree in Christian counseling. The recipient must have a cumulative GPA of 3.3 or above. Established by the family of Shari Boblitt.
- The Boyd Accounting Award Presented annually to a deserving junior in accounting.
- The Dolph and Brown Psychology Award Given to two juniors majoring in psychology or applied science. Provided by Dr. and Mrs. Charles Dolph and Mrs. Alcene Brown.
- The Edmund Burke Award Presented to a junior majoring in social science with a 3.5 GPA.
- Burris Logistics Computer Science Award Given to students pursuing a degree in computer science who have demonstrated exemplary character in the personal, spiritual, and academic pursuits. Must have a GPA of 3.3, participate in community service and ministry opportunities, and make contributions to the advancement of the computer science program. Established by Burris Information Technology.
- The David G. Canine Award Given to a graduating senior with a cumulative GPA of 3.0 or above who is planning to enter the pastorate and has a heart for evangelism. Established in memory of and gratitude for the ministry of David G. Canine.
- Centennial Library Scholarship Award in Library Science Given to a senior accepted for enrollment or planning to begin a graduate program within two years of graduating from Cedarville University to pursue an advanced degree in library and information science.
- Charles and Margaret Clevenger Piano Award Established by Dr. Charles Clevenger to honor his parents, Charles E. and Margaret Clevenger, whose love and encouragement have shaped him as an artist and educator. Recipients must be full-time, rising junior or senior students with a minimum GPA of 3.3, pursuing a bachelor's degree in music with piano as principal instrument. The recipient must also demonstrate exemplary musical stewardship and Christian character.
- Christian Service and Academic Excellence Award Established by Stephen Brown '67, this endowed award assists students who demonstrate faithful Christian service and academic excellence. Recipients must be sophomore, junior, or senior students with a GPA of 3.3 or above. The Vice President for Christian Ministries selects the recipients.
- Robert and Janet Conway Nursing Award Recipients must be an advancing senior student with a minimum cumulative GPA of 3.5 and demonstrate excellence in clinical practice. Robert and Janet Conway established this annually-funded scholarship in 2009 to recognize excellence in nursing.

The Creation Research Awards Presented annually to outstanding seniors majoring in biology, chemistry, mathematics, or physics.

- Daniel Award Given to graduating male seniors who are planning to serve as full-time pastors and are accepted by a conservative evangelical seminary. Recipients must have a minimum cumulative GPA of 3.3. Established by David and Jean Heyd in memorial to their parents Charles and E. LaRue Wilcox and Elmer and Kathryn Heyd.
- The Irma M. Dodson Award Granted to a graduating senior in elementary education. Endowed out of gratitude for the Lord's enablement in allowing Irma M. Dodson to serve 50 years in education.
- Helen Drullinger Memorial Award Given to a student enrolled in a Bible program, preparing for professional Christian ministry. The recipient must maintain a cumulative GPA of 3.3 or above. Preference is given to a married student whose wife is working to help pay for his college expenses. Established in memory of Helen Drullinger.
- The Erich W. Ebert Award This annual award is given to a last-semester secondary or elementary education senior who intends to pursue a career in Christian school education. General and Mrs. Clyde Autio have endowed this award in loving memory of and in gratitude for the life and educational ministry of Mrs. Autio's father, Erich W. Ebert.
- Sharon Eimers Award Established in loving memory of Dr. Sharon Eimers, this award recognizes and assists exceptional education majors. The recipient must be a full-time junior or senior education major with a minimum GPA of 3.3. The student who receives this award must demonstrate exceptional creativity, enthusiasm, and dedication to teaching.
- Jenna Lynn Ellis Award Awarded to junior or senior students pursuing a career in law and planning to attend law school. Preference will be given to students who want to serve in a branch of law relating to victim advocacy or criminal prosecution. Recipients must demonstrate exceptional academic, personal, and spiritual standards. Interested parties must complete an essay application explaining their motivation for pursuing a career in law, their definition of justice, and their ethical responsibilities within their expected field of practice. This scholarship is funded by Jenna Ellis.
- The Austin Elmore Award Presented annually to a junior majoring in biology. Preference given to students demonstrating potential in botanical sciences. Established to honor Austin Elmore for 17 years of faithful ministry as a biology professor at Cedarville.
- The Faculty Scholarship Trophy Given to the graduating senior with the highest cumulative grade point average. Eligibility must include 90 semester hours taken at Cedarville University completed within six regular semesters.
- The Dr. Clifford W. Fawcett Senior Business Scholarship Award Given to graduating seniors who have demonstrated exceptional scholarship and exemplary Christian, moral, and ethical character.
- Sandra W. Harner Technical and Professional Communication Award Recipients must have a minimum cumulative GPA of 3.3. Sandra W. Harner '64 established this annually-funded scholarship in 2009 to assist exceptional students preparing for careers in technical and professional communication.
- 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.
- Stephen M. Harriman Memorial award This Award was established by Earle and Donnabelle Harriman to honor the memory of their beloved, late son who graduated in 1973 with a major in Social Science. Recipients must be history or history education majors, have at least one year remaining in their academic program, and demonstrate spiritual maturity and leadership qualities. The faculty of the department of history and government nominate and select the recipients.

- 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 GPA and must exhibit excellence, creativity, dedication, and common sense in their studies and application of engineering principles. This award is provided annually by Steve and Linda Nelson.
- **Rev. Henry and Lilian Hutchison Christian Education Award** This award was established by Thomas and Amy Hutchison to honor his parents, Henry and Lilian Hutchison, by subsidizing student expenses for ministry preparation. The recipient must be a full-time junior or senior pursuing a degree in Christian education or youth ministry. The recipient of this cash award must have a minimum cumulative GPA of 3.3, be actively involved in Christian ministries, and have a demonstrated passion for ministry and excellent potential for communicating the Word of God.
- **Reverend Michael Holt Memorial Scholarship** Established by Deborah Holt '87 to honor the life and ministry of her husband and to assist students preparing for a career in the pastorate. The recipient must have a minimum GPA of 3.3 and exhibit attributes that reflect the life ministry of Rev. Michael Holt, including integrity and steadfastness, passion of biblical study, and zeal for preaching.
- The James T. Jeremiah Award Given to a senior desiring to enter a 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 junior or senior varsity men's or women's soccer team members who are active in the soccer ministry/outreach program. Established by friends and family of Dave Jones in memory of his contribution to the Cedarville University soccer and ministry programs.
- Joseph Award Given to male juniors who are pursuing an appropriate department of biblical and theological studies 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.
- Kimberly S. Ahlgrim Counseling Scholarship The scholarship is awarded to a senior psychology, applied psychology, or social work major who has demonstrated commitment to the field by definite plans to attend graduate school shortly after graduation to become a minimum of a Master's level therapist. Recipients must also maintain a 3.5 GPA and have financial need. Preference is given to students who are engaged in a ministry related to the counseling field. Jennifer L. Castellani '02 established this scholarship in 2007 to honor Kimberly S. Ahlgrim who ministered as a professional counselor for 15 years in the University's Counseling Services.
- 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.

- Language and Literature Alumni Award Recipients must have a minimum cumulative GPA of 3.3. Language and Literature alumni established this annually-funded scholarship in 2008 to recognize the academic achievements of students pursuing a degree under the Department of Language and Literature.
- 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. and 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 wellrounded 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.
- Milner Family Award Recipients must have a cumulative GPA of 3.3 or above. The Milner family established this endowed award in 1964 to assist junior and senior students under the Department of Language and Literature. Preference is given to students who are pursuing a career in English education.
- Jim and 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.
- 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. and Mrs. Rolan David Polsdorfer Music Award** Given to a full-time advancing junior or senior pursuing a bachelor's degree in music with piano as principal instrument. Recipient must have one year of study remaining. Provided by Mrs. Catherine Polsdorfer.
- The President's Trophy Awarded to a graduating senior on the basis of scholastic ability, character, leadership, and sportsmanship.
- The Donna Purple Award in Education This award was established by the friends and family of Donna Purple to honor her memory and to assist students preparing for a career in education. The recipient must be a full-time rising junior or senior student pursuing a degree in education, preferably middle childhood education, with a minimum GPA of 3.3.
- The Marlin Rayburn Award Presented to a student who demonstrates excellence in homiletics and has a GPA of 3.0 or above. Established in memory of Marlin Rayburn by Mrs. Ethel Rayburn Jeremiah and Mrs. Marilyn Twigg.
- The Rietveld Fine Arts Award Given to a junior or senior demonstrating consistent and outstanding ability and development in the area of studio art. Established by Mr. and Mrs. Floyd Rietveld.

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- **Roloff Incentive Award** This scholarship, endowed by Dr. Marston Val Roloff, is awarded to full-time students who have completed at least one year at Cedarville University. The recipients must demonstrate financial need and be actively involved in community service or other highly desirable leadership roles with a cumulative GPA of 3.0 or above. The award is given to students pursuing an academic program in biological sciences, and preference is given to children and other descendants of Cedarville University graduates.
- Salt and Light Scholarship Given to students with a minimum GPA of 3.3 who are pursuing a degree under the department of business administration or the department of communication arts. Students must complete an essay application explaining how they plan to integrate biblical thought and practice into their academic discipline.
- Jane Adams Smith Memorial Scholarship Given to students pursuing an undergraduate degree in any academic major under the department of Communication Arts who have also completed at least one year at Cedarville University.
- The Spiritual Leadership Music Award This award was established by John and Jean LeBlanc in memorial to his father, John D. LeBlanc, to assist music majors. The recipient must be a full-time junior or senior student pursuing an academic major in music. The recipient must also have a minimum GPA of 3.3 and must demonstrate increasing spiritual maturity as a musician.
- The Taylor Scholarship Award Established in honor of Ruel B. and M. Ethel Taylor by their children and grandchildren, this endowed scholarship award is granted to a full-time junior nursing student in the top ten percent of the nursing class. The recipient demonstrates financial need, is committed to honoring and serving the Lord and Savior Jesus Christ, and is an excellent prospect for a career in nursing.
- Olen Tilma Small Business Scholarship Given to students pursuing an undergraduate degree in any academic major under the department of business administration with a minimum cumulative GPA of 3.3.
- The Undergraduate Award for Achievement in Organic Chemistry Given by the Polymer Education Committee of the Division of Polymer Chemistry and Polymeric Materials to the most outstanding chemistry major in organic chemistry with a GPA of 3.4 or higher.
- The Kristi Lynn Walborn Memorial Scholarship Given to a sophomore or junior music major with an emphasis in voice or in music education with vocal emphasis. Established in memory of Kristi Lynn Walborn.
- C. Eugene Walker, Ph.D. Psychology Award Given to a junior or senior pursuing a degree in psychology. The student must have a GPA of 3.3 or above, have plans for graduate education in psychology, be involved in a Christian ministry, and participate in research in department of psychology activities. Established by C. Eugene Walker, Ph.D.
- The Wall Street Journal Award Presented to an outstanding graduate in business administration.
- The J. D. "Jack" Willetts Scholarship Award Given to a sophomore or junior who excels in preparation for a career in education. Given in memory of the former president of the Cedarville Alumni Association and member of the Class of 1958.
- The Dr. and Mrs. Duane R. Wood Family Award Granted to a full-time student who will be at least a sophomore with a 3.25 or higher GPA who has evidenced Christian character, leadership on campus, academic achievement, and varsity athletic performance.
- The Zondervan Greek Award Given to the student having the highest GPA in elementary Greek.

Federal Family Education Loan Programs Federal Stafford Student Loan

Federal Stafford Student Loan funds are available to dependent and independent undergraduate students. Requests for loan assistance from this program may be made through the FAFSA. Cedarville University processes applications electronically through the Great Lakes Higher Education Corporation and its participating lenders. Applications will be mailed directly to the student from the guarantee agency. The federal government will subsidize (pay) the interest on loans while the student is in school and during a six month grace period following withdrawal or graduation if the student has demonstrated financial need as determined by the FAFSA calculations. The interest rate, as of July 1, 2006, is a fixed rate at 6.8%. Freshmen can borrow a maximum of \$3,500, sophomores \$4,500, and juniors and seniors \$5,500. Loan origination and insurance fees totaling 3% of the loan amount will be deducted by the lender.

Federal Unsubsidized Stafford Student Loan

Federal Unsubsidized Stafford Student Loan funds are available to students who do not qualify for all or part of the need-based subsidized Stafford Loan. The annual loan limits are the same, as stated above, for the subsidized, unsubsidized, or any combination of the two programs. In this program, all the terms are the same as the subsidized Stafford; however, the federal government does not cover the interest expenses while the student is in school or during the six-month grace period. The student does have the option to defer interest payments during in-school and grace periods; however, the interest continues to accrue. Independent students are eligible to borrow additional funds through the Unsubsidized Stafford. Freshmen and sophomores may borrow an additional \$4,000 and juniors and seniors may borrow an additional \$5,000 per year.

Additional Unsubsidized Stafford Loan

A new loan program that was started in the 2008–09 school year which allows students to borrow an additional \$2,000 for each academic year. This is in addition to the base Subsidized and Unsubsidized Stafford Loans that are previously described. Eligibility, repayment, cancellation, and deferment criteria are the same as for the original Stafford loans.

Federal Parent Loan to Undergraduate Students (PLUS)

Federal Parent Loan to Undergraduate Students (PLUS) funds are available for creditworthy parents to borrow on behalf of their students. This loan program is not based on financial need and may be used to replace all or part of the expected family contribution. Parents may borrow any amount up to the cost of education less any financial aid the student is receiving. The fixed interest rate is 8.5%. The lender will deduct 3% of the loan amount to cover the origination and insurance fee. Repayment does begin within 60 days following full disbursement of the loan funds. Further information and applications for this program may be obtained by contacting the financial aid office.

Students should be aware that funds awarded from these programs are considered to be awarded for the entire loan period requested by the borrower. Should the student withdraw before the end of the loan period, a proportionate refund of the loan funds may be returned to the lender. In addition, if a student is enrolled for less than a full academic year immediately preceding graduation, the annual loan limit may be pro-rated based on the number of credits remaining to complete the program of study. Specific questions relating to the federal regulations outlined above may be directed to the financial aid office.

Federal Perkins Loans

Federal Perkins Loans are available through the University to students who are citizens of the United States and who demonstrate exceptional financial need. Funds are awarded to Federal Pell Grant recipients first. Other applicants are awarded pending availability of funds.

The Federal Perkins Loan Fund was established to help students pursue their courses of study at their chosen institutions of higher education. Students are eligible if they are: (1) a citizen of the United States, in the United States for other than a temporary purpose and intend to become a permanent resident thereof, a permanent resident of the Trust Territory of the Pacific Islands, or the Northern Mariana Islands; (2) in need of the amount of the loan to pursue a course of study at an eligible institution; (3) capable, in the opinion of the institution, of maintaining good standing in such course of study; and (4) accepted for enrollment as at least a half-time undergraduate student. Continuing students must be in good standing and enrolled as at least a half-time undergraduate. The standard Perkins Loan amount is \$1,500. However, the annual amount may be increased as funding allows.

Repayment begins nine months after graduation or when a student leaves school for other reasons. One may have up to 10 years to pay back the loan, depending upon the aggregate amount borrowed. During the repayment period, the borrower will be assessed 5% interest on the unpaid balance of the loan principle.

Exit interviews will be conducted for graduates and 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 of work a week during the academic year, providing they show a demonstrated need based on their FAFSA. Actual hiring is done by the department supervisors who will employ the students. As with campus employment, actual job placement, number of hours worked, and total dollar amount earned cannot be guaranteed by the financial aid office. Community service positions are also available in this program. Visit **www.cedarville.edu/studentemployment** for more information.

Campus Employment

Although unable to guarantee actual job placement, the number of hours worked, or total dollar amount earned, Cedarville University assists needy students by recommending them for parttime employment. Students are employed in various part-time jobs on campus such as maintenance, cafeteria, housekeeping, and others.

Part-time student employment is not restricted to upperclassmen and is encouraged at all levels.

Off-Campus Employment

Because of the University's reputation for attracting quality students, many area employers contact the career services office to employ students on a part-time basis. Though no formal restrictions pertain to this employment, students are encouraged to limit their working hours to approximately 20 hours per week to ensure sufficient time to study.

Standards of Satisfactory Academic Progress for Recipients of Financial Aid Policy

Financial aid recipients at Cedarville University are required to achieve satisfactory academic progress to be eligible to continue to receive federal financial assistance. The purpose of this policy is to define the requirements for satisfactory academic progress as it pertains to recipients of Title IV federal aid programs.

The University recognizes that conditions that create the need for financial assistance may also create other educational needs that require extra time and slower progress in achieving educational goals. Students who, because of exceptional educational needs, must make slower progress than outlined in the policy or who find themselves victims of unusual circumstances, are encouraged to discuss their situations with their academic advisors and the financial aid office. Where legally possible, because of mitigating circumstances, exceptions to this policy can be considered.

When the Congress of the United States enacted the Higher Education Amendments of 1976, eligible institutions were directed to define and enforce standards of progress for students receiving federal financial assistance. The programs directly involved at Cedarville University are:

- 1. Unsubsidized Stafford loans
- 2. Subsidized Stafford loans
- 3. Federal Perkins loans
- 4. FFEL PLUS loans
- 5. Federal Pell Grant
- 6. Academic Competitiveness Grant
- 7. National SMART Grant
- 8. Federal SEOG Grant

Full-Time Students

To be eligible for full benefits of Federal Title IV funds, undergraduate recipients of financial aid must enroll for a minimum of 12 credit hours of classes during each semester that aid is received. All students are required to have a cumulative grade point average of 2.0 (C) in order to graduate from Cedarville University. The following academic requirements would be appropriate in achieving this goal by "carrying to completion" the required credit hours. In order to meet academic progress standards, students must complete a minimum number of credit hours based on a percentage of work to be completed and maintain a minimum cumulative grade point average consistent with the requirements for graduation. The following illustrates the academic progress policy:

Hours attempted	1-30	31-60	61-90	91-192
Completed (percent)	65%	70%	75%	80%
Minimum cumulative GPA	1.70	1.90	2.00	2.00

Satisfactory academic progress means that first-time students must, after a reasonable probationary period not to exceed one semester, have registered the minimum cumulative grade point average each semester thereafter as indicated above. In addition, these students must complete 65% of attempted course work the first academic year, 70% the second year, 75% the third year and 80% the fourth year.

Note: Academic progress is measured at the end of each academic term. (Satisfactory progress for summer coursework will be evaluated at the end of the fall semester when fall term academic progress is evaluated.) It is assumed that the majority of students will graduate in the normal time frame. However, no student may continue more than six years as a full time student in order to complete his/her academic program. Regardless of the credit hours a full-time student attempts and received aid for, (which cannot exceed 192) they must complete the percentage of work attempted and have the appropriate cumulative grade point average as stipulated above.

Aid recipients who fail to complete the required percentage of work attempted as listed above during the applicable semester and/or do not meet the minimum cumulative grade point requirements each semester will be considered as not making satisfactory academic progress. These students will be subject to having their federal aid discontinued unless there are mitigating circumstances involved that may affect a student's academic progress.

Students who withdraw from all courses during any semester will be encouraged to confer with the financial aid office. If permitted to continue, students who withdraw from all courses during each semester for two consecutive semesters will be considered as not making satisfactory academic progress and will be discontinued from receiving federal financial aid.

In conjunction and addition to the academic policy listed in the University catalog, the grading marks F, I, W, WF and WP will not be considered as successful completion of courses attempted. The attempt of these courses will be considered in quantitative (percent completion) analysis of SAP but not the qualitative

Financial Information

Financial Aid

(GPA) analysis. The incomplete (I) grades will be considered into the qualitative (GPA) analysis when completed according to the provisions in the University catalog. When an incomplete grade changes to another grade notation, that change will be picked up in the next SAP review.

Repeat course credits earned are averaged into the cumulative grade point averages; however, credit hours are counted only once towards the graduation requirement, but both attempts towards the percent of completion calculation.

Credit hours in which a "CR" has been earned count toward total graduation requirements but are not used in the computation of grade point averages. Non-credit hours for which "NC" has been earned are not used in the computation of grade point averages.

Audit (AU) classes do not constitute hours attempted or completed and are not used in the computation of grade point averages.

Repeat course credits earned are averaged into the cumulative grade point averages; however, credit hours are counted only once.

Summer school credit hours earned will be included in the academic year to which summer sessions are assigned. They will be evaluated the same as hours earned in regular semester sessions.

Part-time Students

Students who enroll for less than full-time (12 hours per semester) will receive proportionately less financial aid than a full-time student as dictated by lower school costs and federal regulations. Similar academic progress requirements for full-time apply to part-time enrollment on a proportional basis. Financial aid (except the Federal Pell Grant) will not be awarded to students who enroll for fewer than six credit hours per semester (half-time).

Transfer Students

Transfer students who have never attended Cedarville University will be treated as new students in regard to the probationary period (one semester). The transfer credits plus the credits received at Cedarville will be used for the percent of completion measurement; however, only the cumulative grade point average earned at Cedarville will be the evaluating factor to determine if progress is being made, based on the current satisfactory academic progress policy.

How to Re-establish Eligibility

When a student is denied aid because of lack of academic progress, additional courses at Cedarville University must be taken at the student's own expense. This will be necessary until the minimum cumulative grade point average and the percentage of completion requirements meet the academic progress criteria. In all cases, each student, upon completion of these requirements, must schedule an appointment with the assistant director of financial aid to determine his or her future eligibility for federal assistance.

Method for Appeal

Students who have been denied federal aid due to unsatisfactory academic progress have the right to appeal and can do so by a written request to the assistant director of financial aid. All appeals must include substantive reasons for failure to comply with this policy.

The assistant director of financial aid along with the appeal committee will review the appeal and the assistant director will respond by letter with either an approval or rejection of the student's appeal. On an individual basis, future progress requirements may be placed on a student whose appeal is approved. If the appeal is approved, the student's financial aid will be reinstated for the term. If necessary, further appeals may be made to the vice president for enrollment management.

Student Rights

- 1. You have the right to know what financial aid programs are available at your school.
- 2. You have the right to know the deadlines for submitting applications for each of the financial aid programs available.
- You have the right to know how financial aid will be distributed, how decisions on that distribution are made, and the basis for these decisions.
- 4. You have the right to know how your financial need was determined. This includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in your budget.
- You have the right to know what resources (such as parental contribution, other financial aid, your assets, etc.) were considered in the calculation of your need.
- 6. You have the right to know how much of your financial need as determined by the institution has been met.
- 7. You have the right to request an explanation of the various programs in your student aid package.
- 8. You have the right to know your school's refund policy.

Student Responsibilities

- 1. You must complete all application forms accurately and submit them on time to the right place.
- You must provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense that could result in indictment under the U.S. Criminal Code.
- 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, selfperpetuating board of trustees. Board members are selected for three-year terms. One-third of the board members are eligible for re-election each year. The executive committee of the board consists of the chair, vice chair, secretary, treasurer, chairs of the standing committees, and the president of the University. The board meets in January, May, and October.

Officers

William Brown, President William Rudd (2011), Chair William Bolthouse (2011), Vice Chair Deforia Lane (2010), Secretary Ronald Becker (2011), Treasurer

Term of Office Ending June 2010

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Term of Office Ending June 2011

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Term of Office Ending June 2012

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Administration

Administrative Council

- William E. Brown, *President*. B.A., University of South Florida, 1975; Th.M., Dallas Theological Seminary, 1981; Ph.D., Dallas Theological Seminary, 1984. At Cedarville since 2003.
- Paul H. Dixon, Chancellor. B.A., Tennessee Temple University, 1961; M.Div., Temple Baptist Theological Seminary, 1964; D.D., Tennessee Temple University, 1978; LL.D., Liberty University, 1984; Ed.D., The University of Cincinnati, 1986. At Cedarville since 1978.
- John S. Gredy, *Provost.* B.S., Albion College, 1973; M.S., Indiana University, 1976; Ed.D., Indiana University, 1987. At Cedarville since 2005.
- William L. Bigham, Vice President for Advancement. B.S., Roberts Wesleyan College, 1995; M.A. The State University of New York, Brockport, 2001. At Cedarville since 2008.
- Thomas Cornman, Academic Vice President, Chief Academic Officer. B.S., Philadelphia Biblical University, 1978; M.Div., Biola University, 1981; M.A., Temple University, 1982; Ph.D., University of Illinois, 1998. At Cedarville since 2009.

Philip C. Grafton, *Vice President for Finance/CFO*. B.A., Cedarville University, 1989; M.B.A., University of Phoenix, 2007. At Cedarville since 1992.

- Rodney S. Johnson, Vice President for Operations. B.A., Cedarville University, 1989; M.B.A., Wright State University, 1994. CFA-Level 1, 1995. At Cedarville since 2000.
- 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.
- **Carl A. Ruby**, *Vice President for Student Life.* B.A., Cedarville University, 1983; M.A., Wheaton College, 1988; Ph.D., Ohio University, 1996. At Cedarville since 1983.
- Janice L. Supplee, Vice President for Enrollment Management and Marketing. B.A., Cedarville University, 1986; M.B.A., Wright State University, 2001. At Cedarville since 1995.

Deans Council

- Andrew A Runyan, Associate Vice President for Academic Administration, B.M.E., University of Dayton, 1983; M.S.M.M., GMI Engineering and Management Institute, 1993; Ph.D. Nova Southeastern University, 2000; registered professional engineer. At Cedarville since 2006.
- **David Rotman**, Associate Vice President for Technology/CIO. 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.
- Stanley Baczek, Dean, School of Natural and Applied Sciences: B.S., Southeastern Massachusetts University, 1969; M.S., University of Massachusetts, 1975; Ph.D. University of Massachusetts, 1977. At Cedarville since 2003.
- Lynn A. Brock, *Dean of Library Services; Professor of Library Science*. B.A., Cedarville University, 1968; M.L.S., Indiana University, 1969. At Cedarville since 1969.
- Daniel Estes, *Dean, School of Biblical and Theological Studies.* B.A., Cedarville University, 1974; Th.M., Dallas Theological Seminary, 1978; Ph.D., Cambridge University (England), 1988. At Cedarville since 1984.
- Pamela Diehl Johnson, Dean, School of Social Sciences and Human Performance. B.S., University of Dayton, 1970;
 M.A., The Ohio State University, 1971; Ph.D., The Ohio State University, 1974. At Cedarville since 1974.
- Marc Sweeney, *Dean, School of Pharmacy.* B.S. Pharm., Ohio Northern University, 1993; Pharm.D., The Ohio State University, 1997; M.Div., Southwest Bible College and Seminary, 2006. At Cedarville since 2009.
- Steven Winteregg, Dean, School of Humanities. 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.
- Fran Campbell, *Registrar.* B.A., Cedarville University, 1972; At Cedarville since 1981.

Other Faculty

Library

- Lynn A. Brock, Dean 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 Dean for Library Administration; 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, *Director of Library 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, Director of Library Collection Services; Associate Professor of Library Science. B.A., Gettysburg College, 1990; M.L.I.S, The University of Rhode Island, 1993. At Cedarville since 1996.

- J. Brent Etzel, Instructional Services Librarian; Assistant Professor of Library Science. B.A., Franklin College, 1994; M.L.S., Indiana University, 1997; M.A., Illinois State University, 2006. At Cedarville since 2008.
- Tonya L. Fawcett, Director of Library Public 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.
- Jeffery S. Gates, Information Services Librarian; Assistant Professor of Library Science. B.S., Baptist Bible College, 1981; M.L.S., Kent State University, 1995; M.A., Faith Baptist Theological Seminary, 2002. At Cedarville since 2007.
- 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; M.L.S., Kent State University, 2005. At Cedarville since 2002.

Student Life

- Patricia L. Bates, Associate Dean of Students. B.S., Ouachita University, 1968; M.S., Xavier University, 1971. At Cedarville since 1974.
- Kirsten Gibbs, *Dean of Students*. B.A., Cedarville University, 1993; M.S.A., Central Michigan University, 2003. At Cedarville since 1993.
- John Potter, *Director of Counseling.* B.A., Cedarville University, 1979; M.A., Dallas Theological Seminary, 1993; M.A., Amber University. At Cedarville from 1981-1984, since 1997.
- Jonathan M. Purple, *Dean for Student Life Programs*. B.S., Tennessee Temple University, 1980; M.Ed., Liberty University, 1988. At Cedarville since 1991.
- Brad Smith, Associate Dean of Students. B.S., Liberty University, 1984; M.A., Liberty University, 1990. At Cedarville since 2000.

Correspondence

A complete listing of departments along with contact information can be obtained online at **www.cedarville.edu/departments**

Written

Cedarville University 251 N. Main St. Cedarville, OH 45314

E-mail

admissions@cedarville.edu

Phone

1-800-CEDARVILLE (233-2784)



Doctrinal Statement

All trustees, administrators, full-time faculty, and staff support and adhere to the doctrinal statement and lifestyle commitment of Cedarville University.

We believe 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. Il Timothy 3:16,17; Il 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; Il 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.

Statistical Information – Fall Semester 2008

By Class – Men and Women	Men	Women	Totals	Student Resident Status	Men	Women	Totals
Freshmen	410	446	856	Campus housing	1,101	1,358	2,459
Sophomores Juniors	298 292	348 349	646 661	Commuters	264	272	536
Seniors	341	455	796	Faculty/Enrollment Comparison	(full-time equivalents)		
Special/Grad/High School	25	32	57	· •••••••	Student	Faculty	Ratio
Totals	1,366	1,630	2,996	2002–03	2,853	193	15:1
				2003–04	2,898	200	14:1
By Major – Men and Women (double majors				2004–05	2,931	211	14:1
Major	Men	Women	Totals	2005-06	2,947	211	14:1
Accounting	56	26 3	82	2006–07 2007–08	3,064 3,006	211 228	15:1 13:1
American Studies Applied Psychology	2 6	31	5 37	2007-08	2,996	202	15:1
Athletic Training	14	12	26	2000 03	2,000	202	10.1
Bible – one year certificate	0	3	3	By State	Men	Women	Totals
Bible, Comprehensive	20	11	31	Alabama	3	2	5
Bible, Preseminary	42	4	46	Alaska	1	2	3
Bible, Teacher Education	6	0	6	Arizona	3	4	7
Bible, Youth Ministries	49	15	64	Arkansas	0	2	2
Biology – Bachelor of Arts	24	33	57	California	9 13	18 13	27 26
Biology – Bachelor of Science Chemistry – Bachelor of Arts	54 4	65 2	119 6	Colorado Connecticut	16	12	20
Chemistry – Bachelor of Science	26	24	50	Delaware	2	11	13
Christian Education	12	26	38	Florida	21	25	46
Communication Studies	33	68	101	Georgia	9	11	20
Computer Engineering	29	4	33	Hawaii	2	2	4
Computer Science	40	2	42	Idaho	0	0	0
Criminal Justice	37	14	51	Illinois	47	65	112
Early Childhood Education	11	156	167	Indiana	60 21	73	133 44
Electrical Engineering Electronic Media Technology	46 69	2 24	48 93	lowa Kansas	9	23 7	44 16
English	16	42	58	Kentucky	13	21	34
Exercise Science – Bachelor of Arts	7	4	11	Louisiana	0	3	3
Exercise Science – Bachelor of Science	15	22	37	Maine	19	18	37
Finance	73	16	89	Maryland	28	44	72
Forensic Science	4	5	9	Massachusetts	14	16	30
Global Economics – International Business	23	11	34	Michigan	116	141	257
Graphic Design History	32 18	46 18	78 36	Minnesota Mississippi	13 1	14 0	27 1
History/Political Science	20	9	29	Missouri	10	11	21
Individual Studies	0	ŏ	0	Montana	1	2	
Information Systems	22	0	22	Nebraska	4	11	15
Integrated Language Arts Education	3	30	33	Nevada	2	0	2
Integrated Life Science Education	5	2	7	New Hampshire	23	13	36
Integrated Math Education Integrated Science Comprehensive Educatior	9 1 0	10 2	19 2	New Jersey New Mexico	46 0	45 2	91 2
Integrated Social Studies Education	17	17	34	New York	60	57	117
Management	67	32	99	North Carolina	17	22	39
Marketing	29	21	50	North Dakota	0	0	0
Mathematics – Bachelor of Arts	6	5	11	Ohio	520	575	1,095
Mathematics – Bachelor of Science	15	12	27	Oklahoma	0 9	2 5	2
Mechanical Engineering Middle Childhood Education	190 17	16 54	206 71	Oregon Pennsylvania	105	182	14 287
Missiology – International Studies	17	19	36	Rhode Island	0	5	5
Molecular and Cellular Biology	7	7	14	South Carolina	1	5	6
Music	5	14	19	South Dakota	0	2	2
Music, Church Ministries	7	6	13	Tennessee	6	12	18
Music, Composition	4	0	4	Texas	12	21	33
Music, Keyboard Pedagogy Music, Multi-Age Education	12	11 22	12 34	Utah Vermont	10	0 7	1 17
Music, Performance	8	16	24	Virginia	30	55	85
Nursing	26	320	346	Washington	18	12	30
Pastoral Studies	20	0	20	West Virginia	17	17	34
Philosophy	13	6	19	Wisconsin	34	20	54
Physical Education and Sport Studies	0	0	0	Wyoming	1	1	2
Physical Education, Multi-Age	13	8	21	District of Columbia	1	1	2 0
Physical Science Education Physics – Bachelor of Arts	1 3	3 0	4 3	Guam Puerto Rico	0 0	0 1	1
Physics – Bachelor of Science	11	0	11	Foreign Residence	18	17	35
Physics Education	2	ĩ	3	Totals	1,366	1,630	2,996
Political Science	15	6	21				
Prelaw	9	9	18	By Age – Men and Women			
Psychology	21	80	101	Years	Men	Women	Totals
Public Administration Social Science – International Studies	8 17	3 17	11 34	under 18 18	30 300	58 400	88 700
Social Work	4	79	83	19	323	344	667
Sociology	1	9	10	20	291	362	653
Spanish	5	26	31	21	260	325	585
Spanish Education, Multi-Age	1	14	15	22	107	88	195
Special Education-Intervention Specialist	3	41	44	23-24	31	22	53
Sport and Exercise Studies	6 35	4 3	10 38	25-29 30-34	10 1	18 2	28 3
Sport Management Studio Art	35 6	3 18	38 24	30-34 35-39	2	2	3
Technical and Professional Communication	9	17	24	40-49	2	10	12
Theatre	8	27	35	50+	3	5	8
Undecided	73	89	162	Totals	1,360	1,636	2,996
World Missions	0	0	0				

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Fall Semester 2009

August

- 14 Residence halls open
- 14–16 Getting Started Weekend Meal contract starts on Saturday at 5 p.m.
- 17–20 Fall Bible Conference19 Instruction Begins Convocation

September

- 7 Labor Day (no classes)
- 16 Day of Prayer (classes begin at 1 p.m.)

October

- 2–4 Homecoming
- 15–16 Fall Break (residence halls open; limited dining hours)
- 19 Instruction Resumes
- 20-21 Advising/Early Registration for Spring: Seniors
- 22-23 Advising/Early Registration for Spring: Juniors
- 27–29 Advising/Early Registration for Spring: Sophomores

November

- 10–12 Advising/Early Registration for Spring: Freshmen
- 13-14 Family Weekend
- 25 Thanksgiving Vacation begins at 1 p.m. (residence halls open; dining hall closed)

December

- 1 Instruction Resumes
- 8–11 Final Exams*
- 12 Residence halls close at 5 p.m.

Spring Semester 2010

January

- 3 Residence Halls Open
- 4 New Student Orientation and Registration Meal contract starts at 5 p.m.
- 5 Instruction Begins
- 5–7 Missions Conference

February

TBA Li'l Sibs Weekend

March

- 1–5 Spring Break (residence halls open; dining hall closed)
- 5 Instruction Resumes
- 16–17 Advising/Early Registration for Fall: Seniors
- 18–19 Advising/Early Registration for Fall: Juniors
- 23-24 Advising/Early Registration for Fall: Sophomores
- 25-26 Advising/Early Registration for Fall: Freshmen

April

- 2–5 Easter Break (residence halls open; limited dining hours)
- 6 Instruction Resumes
- 12 Academic Honors Day
- 27-30 Final Exams*

Мау

1 114th Annual Commencement Residence halls close at 8 p.m.

Summer Terms

Мау

- 3 Residence Halls Open for Summer School
- 4 Summer Session I Instruction Begins
- 21 Summer Session I Ends
- 22 Residence halls close at 12 p.m.
- 25 Online Summer Course Instruction Begins

June

 Summer Studies Instruction Begins Residence halls Open at 1 p.m.
 Summer Studies Ends Residence halls close at 12 p.m.

*Final exam schedules are published at the beginning of each semester. Please be sure that your travel arrangements do not conflict with your final exams.

To view the complete Cedarville University 2009–10 Academic Calendar, visit

www.cedarville.edu/0910acad.

Experience Cedarville for Yourself

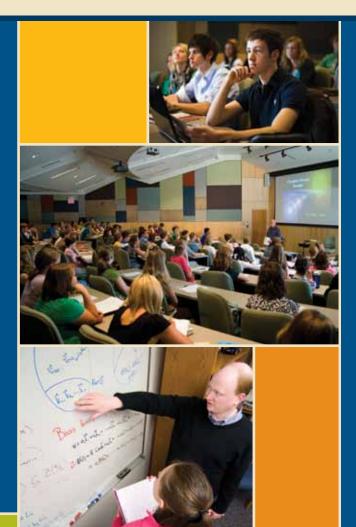
The best way to decide if Cedarville is the place for you is to visit! Spend a day as our guest, meet students and faculty, and experience campus life in action. Make plans now to spend a day with us!

- Join us for chapel at 10 a.m.
- Tour campus.
- Visit a class or two.
- Talk with a professor.
- Discuss financial aid opportunities.
- Meet your admissions counselor.
- Speak with a coach in your sport.
- Eat in our dining hall.
- Participate in an evening activity.
- Spend a night in one of our residence halls.

We'll customize a visit just for you and your family. Let us know when you are coming, and we'll make all the arrangements. We are open Monday through Friday 8 a.m.–5 p.m. and by appointment on Saturday.

Whenever you come, we will do our best to meet your needs, surpass your expectations, and offer you the best campus visit experience possible!

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